



Welcome

# AmplifyUIBuilder



**API Version 2021-08-11**

Copyright © 2026 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

# AmplifyUIBuilder: Welcome

Copyright © 2026 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon. All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.

---

# Table of Contents

<b>Welcome</b> .....	<b>1</b>
<b>Actions</b> .....	<b>2</b>
CreateComponent .....	4
Request Syntax .....	4
URI Request Parameters .....	22
Request Body .....	23
Response Syntax .....	25
Response Elements .....	44
Errors .....	46
See Also .....	47
createForm .....	48
Request Syntax .....	48
URI Request Parameters .....	51
Request Body .....	51
Response Syntax .....	53
Response Elements .....	56
Errors .....	58
See Also .....	59
CreateTheme .....	60
Request Syntax .....	60
URI Request Parameters .....	60
Request Body .....	61
Response Syntax .....	62
Response Elements .....	63
Errors .....	64
See Also .....	65
DeleteComponent .....	66
Request Syntax .....	66
URI Request Parameters .....	66
Request Body .....	66
Response Syntax .....	66
Response Elements .....	66
Errors .....	67
See Also .....	67

---

DeleteForm .....	68
Request Syntax .....	68
URI Request Parameters .....	68
Request Body .....	68
Response Syntax .....	68
Response Elements .....	68
Errors .....	69
See Also .....	69
DeleteTheme .....	70
Request Syntax .....	70
URI Request Parameters .....	70
Request Body .....	70
Response Syntax .....	70
Response Elements .....	70
Errors .....	71
See Also .....	71
ExchangeCodeForToken .....	72
Request Syntax .....	72
URI Request Parameters .....	72
Request Body .....	72
Response Syntax .....	73
Response Elements .....	73
Errors .....	74
See Also .....	74
ExportComponents .....	75
Request Syntax .....	75
URI Request Parameters .....	75
Request Body .....	75
Response Syntax .....	75
Response Elements .....	94
Errors .....	94
See Also .....	95
ExportForms .....	96
Request Syntax .....	96
URI Request Parameters .....	96
Request Body .....	96

Response Syntax .....	96
Response Elements .....	99
Errors .....	100
See Also .....	100
ExportThemes .....	102
Request Syntax .....	102
URI Request Parameters .....	102
Request Body .....	102
Response Syntax .....	102
Response Elements .....	103
Errors .....	104
See Also .....	104
GetCodegenJob .....	106
Request Syntax .....	106
URI Request Parameters .....	106
Request Body .....	106
Response Syntax .....	106
Response Elements .....	109
Errors .....	111
See Also .....	111
GetComponent .....	113
Request Syntax .....	113
URI Request Parameters .....	113
Request Body .....	113
Response Syntax .....	113
Response Elements .....	132
Errors .....	135
See Also .....	135
GetForm .....	137
Request Syntax .....	137
URI Request Parameters .....	137
Request Body .....	137
Response Syntax .....	137
Response Elements .....	140
Errors .....	142
See Also .....	143

---

GetMetadata .....	144
Request Syntax .....	144
URI Request Parameters .....	144
Request Body .....	144
Response Syntax .....	144
Response Elements .....	145
Errors .....	145
See Also .....	145
GetTheme .....	147
Request Syntax .....	147
URI Request Parameters .....	147
Request Body .....	147
Response Syntax .....	147
Response Elements .....	148
Errors .....	150
See Also .....	150
ListCodegenJobs .....	152
Request Syntax .....	152
URI Request Parameters .....	152
Request Body .....	152
Response Syntax .....	153
Response Elements .....	153
Errors .....	153
See Also .....	154
ListComponents .....	155
Request Syntax .....	155
URI Request Parameters .....	155
Request Body .....	155
Response Syntax .....	155
Response Elements .....	156
Errors .....	156
See Also .....	157
ListForms .....	158
Request Syntax .....	158
URI Request Parameters .....	158
Request Body .....	158

---

Response Syntax .....	158
Response Elements .....	159
Errors .....	159
See Also .....	160
ListTagsForResource .....	161
Request Syntax .....	161
URI Request Parameters .....	161
Request Body .....	161
Response Syntax .....	161
Response Elements .....	161
Errors .....	162
See Also .....	163
ListThemes .....	164
Request Syntax .....	164
URI Request Parameters .....	164
Request Body .....	164
Response Syntax .....	164
Response Elements .....	165
Errors .....	165
See Also .....	166
PutMetadataFlag .....	167
Request Syntax .....	167
URI Request Parameters .....	167
Request Body .....	167
Response Syntax .....	168
Response Elements .....	168
Errors .....	168
See Also .....	168
RefreshToken .....	170
Request Syntax .....	170
URI Request Parameters .....	170
Request Body .....	170
Response Syntax .....	171
Response Elements .....	171
Errors .....	171
See Also .....	172

---

StartCodegenJob .....	173
Request Syntax .....	173
URI Request Parameters .....	174
Request Body .....	175
Response Syntax .....	176
Response Elements .....	178
Errors .....	180
See Also .....	181
TagResource .....	182
Request Syntax .....	182
URI Request Parameters .....	182
Request Body .....	182
Response Syntax .....	183
Response Elements .....	183
Errors .....	183
See Also .....	184
UntagResource .....	185
Request Syntax .....	185
URI Request Parameters .....	185
Request Body .....	185
Response Syntax .....	185
Response Elements .....	185
Errors .....	186
See Also .....	186
UpdateComponent .....	188
Request Syntax .....	188
URI Request Parameters .....	206
Request Body .....	207
Response Syntax .....	209
Response Elements .....	228
Errors .....	230
See Also .....	231
UpdateForm .....	232
Request Syntax .....	232
URI Request Parameters .....	234
Request Body .....	235

Response Syntax .....	237
Response Elements .....	240
Errors .....	242
See Also .....	242
UpdateTheme .....	244
Request Syntax .....	244
URI Request Parameters .....	244
Request Body .....	245
Response Syntax .....	246
Response Elements .....	247
Errors .....	248
See Also .....	249
<b>Data Types .....</b>	<b>250</b>
ActionParameters .....	253
Contents .....	253
See Also .....	254
ApiConfiguration .....	256
Contents .....	256
See Also .....	256
CodegenDependency .....	258
Contents .....	258
See Also .....	258
CodegenFeatureFlags .....	260
Contents .....	260
See Also .....	260
CodegenGenericDataEnum .....	261
Contents .....	261
See Also .....	261
CodegenGenericDataField .....	262
Contents .....	262
See Also .....	263
CodegenGenericDataModel .....	264
Contents .....	264
See Also .....	264
CodegenGenericDataNonModel .....	265
Contents .....	265

---

See Also .....	265
CodegenGenericDataRelationshipType .....	266
Contents .....	266
See Also .....	267
CodegenJob .....	268
Contents .....	268
See Also .....	270
CodegenJobAsset .....	272
Contents .....	272
See Also .....	272
CodegenJobGenericDataSchema .....	273
Contents .....	273
See Also .....	273
CodegenJobRenderConfig .....	275
Contents .....	275
See Also .....	275
CodegenJobSummary .....	276
Contents .....	276
See Also .....	277
Component .....	278
Contents .....	278
See Also .....	281
ComponentBindingPropertiesValue .....	282
Contents .....	282
See Also .....	282
ComponentBindingPropertiesValueProperties .....	283
Contents .....	283
See Also .....	284
ComponentChild .....	285
Contents .....	285
See Also .....	286
ComponentConditionProperty .....	287
Contents .....	287
See Also .....	288
ComponentDataConfiguration .....	289
Contents .....	289

---

See Also .....	289
ComponentEvent .....	291
Contents .....	291
See Also .....	291
ComponentProperty .....	292
Contents .....	292
See Also .....	294
ComponentPropertyBindingProperties .....	296
Contents .....	296
See Also .....	296
ComponentSummary .....	297
Contents .....	297
See Also .....	298
ComponentVariant .....	299
Contents .....	299
See Also .....	299
CreateComponentData .....	300
Contents .....	300
See Also .....	302
CreateFormData .....	303
Contents .....	303
See Also .....	305
CreateThemeData .....	306
Contents .....	306
See Also .....	307
DataStoreRenderConfig .....	308
Contents .....	308
See Also .....	308
ExchangeCodeForTokenRequestBody .....	309
Contents .....	309
See Also .....	309
FieldConfig .....	310
Contents .....	310
See Also .....	311
FieldInputConfig .....	312
Contents .....	312

---

See Also .....	314
FieldPosition .....	316
Contents .....	316
See Also .....	316
FieldValidationConfiguration .....	318
Contents .....	318
See Also .....	318
FileUploaderFieldConfig .....	320
Contents .....	320
See Also .....	321
Form .....	322
Contents .....	322
See Also .....	324
FormBindingElement .....	325
Contents .....	325
See Also .....	325
FormButton .....	326
Contents .....	326
See Also .....	326
FormCTA .....	327
Contents .....	327
See Also .....	327
FormDataTypeConfig .....	329
Contents .....	329
See Also .....	329
FormInputBindingPropertiesValue .....	330
Contents .....	330
See Also .....	330
FormInputBindingPropertiesValueProperties .....	331
Contents .....	331
See Also .....	331
FormInputValueProperty .....	332
Contents .....	332
See Also .....	332
FormInputValuePropertyBindingProperties .....	333
Contents .....	333

---

See Also .....	333
FormStyle .....	334
Contents .....	334
See Also .....	334
FormStyleConfig .....	336
Contents .....	336
See Also .....	336
FormSummary .....	337
Contents .....	337
See Also .....	338
GraphQLRenderConfig .....	339
Contents .....	339
See Also .....	340
MutationActionSetStateParameter .....	341
Contents .....	341
See Also .....	341
NoApiRenderConfig .....	342
Contents .....	342
See Also .....	342
Predicate .....	343
Contents .....	343
See Also .....	344
PutMetadataFlagBody .....	345
Contents .....	345
See Also .....	345
ReactStartCodegenJobData .....	346
Contents .....	346
See Also .....	347
RefreshTokenRequestBody .....	348
Contents .....	348
See Also .....	348
SectionalElement .....	349
Contents .....	349
See Also .....	350
SortProperty .....	351
Contents .....	351

---

See Also .....	351
StartCodegenJobData .....	352
Contents .....	352
See Also .....	353
Theme .....	354
Contents .....	354
See Also .....	355
ThemeSummary .....	357
Contents .....	357
See Also .....	357
ThemeValue .....	359
Contents .....	359
See Also .....	359
ThemeValues .....	360
Contents .....	360
See Also .....	360
UpdateComponentData .....	361
Contents .....	361
See Also .....	363
UpdateFormData .....	364
Contents .....	364
See Also .....	365
UpdateThemeData .....	367
Contents .....	367
See Also .....	367
ValueMapping .....	369
Contents .....	369
See Also .....	369
ValueMappings .....	370
Contents .....	370
See Also .....	370
<b>Common Parameters .....</b>	<b>371</b>
<b>Common Error Types .....</b>	<b>374</b>

# Welcome

Welcome to the AWS Amplify UI Builder API documentation. This reference provides descriptions of the actions and data types for the Amplify UI Builder API.

The Amplify UI Builder API provides a programmatic interface for creating and configuring user interface (UI) component libraries and themes for use in your Amplify applications. You can then connect these UI components to an application's backend AWS resources.

You can also use the Amplify Studio visual designer to create UI components and model data for an app. For more information, see [Introduction](#) in the *Amplify Docs*.

The Amplify Framework is a comprehensive set of SDKs, libraries, tools, and documentation for client app development. For more information, see the [Amplify Framework](#). For more information about deploying an Amplify application to AWS, see the [Amplify User Guide](#).

This document was last published on May 1, 2026.

# Actions

The following actions are supported:

- [CreateComponent](#)
- [CreateForm](#)
- [CreateTheme](#)
- [DeleteComponent](#)
- [DeleteForm](#)
- [DeleteTheme](#)
- [ExchangeCodeForToken](#)
- [ExportComponents](#)
- [ExportForms](#)
- [ExportThemes](#)
- [GetCodegenJob](#)
- [GetComponent](#)
- [GetForm](#)
- [GetMetadata](#)
- [GetTheme](#)
- [ListCodegenJobs](#)
- [ListComponents](#)
- [ListForms](#)
- [ListTagsForResource](#)
- [ListThemes](#)
- [PutMetadataFlag](#)
- [RefreshToken](#)
- [StartCodegenJob](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateComponent](#)
- [UpdateForm](#)

- [UpdateTheme](#)

# CreateComponent

Creates a new component for an Amplify app.

## Request Syntax

POST /app/*appId*/environment/*environmentName*/components?clientToken=*clientToken* HTTP/1.1  
Content-type: application/json

```
{
  "bindingProperties": {
    "string": {
      "bindingProperties": {
        "bucket": "string",
        "defaultValue": "string",
        "field": "string",
        "key": "string",
        "model": "string",
        "predicates": [
          {
            "and": [
              "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
              "Predicate"
            ]
          }
        ],
        "slotName": "string",
        "userAttribute": "string"
      },
      "defaultValue": "string",
      "type": "string"
    }
  },
  "children": [
    {
      "children": [
        "ComponentChild"
      ]
    }
  ]
}
```

```

],
"componentType": "string",
"events": {
  "string" : {
    "action": "string",
    "bindingEvent": "string",
    "parameters": {
      "anchor": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "bindings": {
          "string" : {
            "element": "string",
            "property": "string"
          }
        },
        "collectionBindingProperties": {
          "field": "string",
          "property": "string"
        },
        "componentName": "string",
        "concat": [
          "ComponentProperty"
        ],
        "condition": {
          "else": "ComponentProperty",
          "field": "string",
          "operand": "string",
          "operandType": "string",
          "operator": "string",
          "property": "string",
          "then": "ComponentProperty"
        },
        "configured": boolean,
        "defaultValue": "string",
        "event": "string",
        "importedValue": "string",
        "model": "string",
        "property": "string",
        "type": "string",
        "userAttribute": "string",
        "value": "string"
      }
    }
  }
}

```

```
},
  "fields": {
    "string": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
      "model": "string",
      "property": "string",
      "type": "string",
      "userAttribute": "string",
      "value": "string"
    }
  },
  "global": {
    "bindingProperties": {
      "field": "string",
```

```
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"__id": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  }
}
```

```
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    }
  },
}
```

```
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
```

```
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"type": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
```

```
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"url": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  }
},
```

```

        "configured": boolean,
        "defaultValue": "string",
        "event": "string",
        "importedValue": "string",
        "model": "string",
        "property": "string",
        "type": "string",
        "userAttribute": "string",
        "value": "string"
    }
}
},
"name": "string",
"properties": {
    "string" : {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string" : {
                "element": "string",
                "property": "string"
            }
        },
        "collectionBindingProperties": {
            "field": "string",
            "property": "string"
        },
        "componentName": "string",
        "concat": [
            "ComponentProperty"
        ],
        "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
        },
        "configured": boolean,

```

```

        "defaultValue": "string",
        "event": "string",
        "importedValue": "string",
        "model": "string",
        "property": "string",
        "type": "string",
        "userAttribute": "string",
        "value": "string"
    }
},
"sourceId": "string"
}
],
"collectionProperties": {
    "string" : {
        "identifiers": [ "string" ],
        "model": "string",
        "predicate": {
            "and": [
                "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
                "Predicate"
            ]
        },
        "sort": [
            {
                "direction": "string",
                "field": "string"
            }
        ]
    }
},
"componentType": "string",
"events": {
    "string" : {
        "action": "string",
        "bindingEvent": "string",
        "parameters": {
            "anchor": {

```

```
"bindingProperties": {
  "field": "string",
  "property": "string"
},
"bindings": {
  "string" : {
    "element": "string",
    "property": "string"
  }
},
"collectionBindingProperties": {
  "field": "string",
  "property": "string"
},
"componentName": "string",
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
```

```
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  }
},
```

```

    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "id": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [

```

```
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ]
  },
  ],
```

```
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
```

```
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"type": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
```

```
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"url": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
```

```
        "value": "string"
      }
    }
  },
  "name": "string",
  "overrides": {
    "string": {
      "string": "string"
    }
  },
  "properties": {
    "string": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
```

```
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"schemaVersion": "string",
"sourceId": "string",
"tags": {
  "string" : "string"
},
"variants": [
  {
    "overrides": {
      "string" : {
        "string" : "string"
      }
    },
    "variantValues": {
      "string" : "string"
    }
  }
]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app to associate with the component.

Required: Yes

### clientToken

The unique client token.

### environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### bindingProperties

The data binding information for the component's properties.

Type: String to [ComponentBindingPropertiesValue](#) object map

Required: Yes

### children

A list of child components that are instances of the main component.

Type: Array of [ComponentChild](#) objects

Required: No

### collectionProperties

The data binding configuration for customizing a component's properties. Use this for a collection component.

Type: String to [ComponentDataConfiguration](#) object map

Required: No

### componentType

The component type. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

### name

The name of the component

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### overrides

Describes the component properties that can be overridden to customize an instance of the component.

Type: String to string to string map map

Required: Yes

### properties

Describes the component's properties.

Type: String to [ComponentProperty](#) object map

Required: Yes

### schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

### sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

### tags

One or more key-value pairs to use when tagging the component data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## variants

A list of the unique variants of this component.

Type: Array of [ComponentVariant](#) objects

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "bindingProperties": {
    "string": {
      "bindingProperties": {
        "bucket": "string",
        "defaultValue": "string",
        "field": "string",
        "key": "string",
        "model": "string",
        "predicates": [
          {
            "and": [
              "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
              "Predicate"
            ]
          }
        ]
      }
    }
  }
}
```

```

    ],
    "slotName": "string",
    "userAttribute": "string"
  },
  "defaultValue": "string",
  "type": "string"
}
},
"children": [
  {
    "children": [
      "ComponentChild"
    ],
    "componentType": "string",
    "events": {
      "string": {
        "action": "string",
        "bindingEvent": "string",
        "parameters": {
          "anchor": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            },
            "bindings": {
              "string": {
                "element": "string",
                "property": "string"
              }
            },
            "collectionBindingProperties": {
              "field": "string",
              "property": "string"
            },
            "componentName": "string",
            "concat": [
              "ComponentProperty"
            ],
            "condition": {
              "else": "ComponentProperty",
              "field": "string",
              "operand": "string",
              "operandType": "string",
              "operator": "string",

```

```
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
```

```
        "event": "string",
        "importedValue": "string",
        "model": "string",
        "property": "string",
        "type": "string",
        "userAttribute": "string",
        "value": "string"
    }
},
"global": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
```

```
    "userAttribute": "string",
    "value": "string"
  },
  "id": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "model": "string",
  "state": {
    "componentName": "string",
```

```
"property": "string",
"set": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
}
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  }
}
```

```
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"type": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  }
}
```

```
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"url": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
```

```

        "concat": [
            "ComponentProperty"
        ],
        "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
        },
        "configured": boolean,
        "defaultValue": "string",
        "event": "string",
        "importedValue": "string",
        "model": "string",
        "property": "string",
        "type": "string",
        "userAttribute": "string",
        "value": "string"
    }
}
},
"name": "string",
"properties": {
    "string" : {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string" : {
                "element": "string",
                "property": "string"
            }
        },
        "collectionBindingProperties": {
            "field": "string",
            "property": "string"
        },
        "componentName": "string",
        "concat": [

```

```

        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
      "model": "string",
      "property": "string",
      "type": "string",
      "userAttribute": "string",
      "value": "string"
    }
  },
  "sourceId": "string"
}
],
"collectionProperties": {
  "string" : {
    "identifiers": [ "string" ],
    "model": "string",
    "predicate": {
      "and": [
        "Predicate"
      ],
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "or": [
        "Predicate"
      ]
    },
    "sort": [
      {
        "direction": "string",

```

```

        "field": "string"
      }
    ]
  }
},
"componentType": "string",
"createdAt": "string",
"environmentName": "string",
"events": {
  "string": {
    "action": "string",
    "bindingEvent": "string",
    "parameters": {
      "anchor": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "bindings": {
          "string": {
            "element": "string",
            "property": "string"
          }
        },
        "collectionBindingProperties": {
          "field": "string",
          "property": "string"
        },
        "componentName": "string",
        "concat": [
          "ComponentProperty"
        ],
        "condition": {
          "else": "ComponentProperty",
          "field": "string",
          "operand": "string",
          "operandType": "string",
          "operator": "string",
          "property": "string",
          "then": "ComponentProperty"
        },
        "configured": boolean,
        "defaultValue": "string",
        "event": "string",

```

```
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
```

```
    "value": "string"
  }
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"id": {
  "bindingProperties": {
    "field": "string",
```

```
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    }
  }
},
```

```
"bindings": {
  "string" : {
    "element": "string",
    "property": "string"
  }
},
"collectionBindingProperties": {
  "field": "string",
  "property": "string"
},
"componentName": "string",
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  }
}
```

```
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"type": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
```

```
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"url": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
```

```

        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
}
}
},
"__id": "string",
"__modifiedAt": "string",
"__name": "string",
"__overrides": {
    "string" : {
        "string" : "string"
    }
},
"__properties": {
    "string" : {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string" : {
                "element": "string",
                "property": "string"
            }
        },
        "collectionBindingProperties": {
            "field": "string",
            "property": "string"
        },
        "componentName": "string",

```

```
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
}
},
"schemaVersion": "string",
"sourceId": "string",
"tags": {
  "string" : "string"
},
"variants": [
  {
    "overrides": {
      "string" : {
        "string" : "string"
      }
    },
    "variantValues": {
      "string" : "string"
    }
  }
]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appId

The unique ID of the Amplify app associated with the component.

Type: String

### bindingProperties

The information to connect a component's properties to data at runtime. You can't specify tags as a valid property for `bindingProperties`.

Type: String to [ComponentBindingPropertiesValue](#) object map

### children

A list of the component's `ComponentChild` instances.

Type: Array of [ComponentChild](#) objects

### collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify tags as a valid property for `collectionProperties`.

Type: String to [ComponentDataConfiguration](#) object map

### componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### createdAt

The time that the component was created.

Type: Timestamp

### environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

### events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

### id

The unique ID of the component.

Type: String

### modifiedAt

The time that the component was modified.

Type: Timestamp

### name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### overrides

Describes the component's properties that can be overridden in a customized instance of the component. You can't specify tags as a valid property for overrides.

Type: String to string to string map map

### properties

Describes the component's properties. You can't specify tags as a valid property for properties.

Type: String to [ComponentProperty](#) object map

## schemaVersion

The schema version of the component when it was imported.

Type: String

## sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

## tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+--=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of [ComponentVariant](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### **ResourceConflictException**

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

### **ServiceQuotaExceededException**

You exceeded your service quota. Service quotas, also referred to as limits, are the maximum number of service resources or operations for your AWS account.

HTTP Status Code: 402

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateForm

Creates a new form for an Amplify app.

## Request Syntax

```
POST /app/appId/environment/environmentName/forms?clientToken=clientToken HTTP/1.1
Content-type: application/json
```

```
{
  "cta": {
    "cancel": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "clear": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "position": "string",
    "submit": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    }
  },
  "dataType": {
    "dataSourceType": "string",
    "dataTypeName": "string"
  },
  "fields": {
    "string" : {
      "excluded": boolean,
      "inputType": {
        "defaultChecked": boolean,
        "defaultCountryCode": "string",
        "defaultValue": "string",
        "descriptiveText": "string",
        "fileUploaderConfig": {
          "acceptedFileTypes": [ "string" ],
          "accessLevel": "string",
```

```
    "isResumable": boolean,
    "maxFileCount": number,
    "maxSize": number,
    "showThumbnails": boolean
  },
  "isArray": boolean,
  "maxValue": number,
  "minValue": number,
  "name": "string",
  "placeholder": "string",
  "readOnly": boolean,
  "required": boolean,
  "step": number,
  "type": "string",
  "value": "string",
  "valueMappings": {
    "bindingProperties": {
      "string" : {
        "bindingProperties": {
          "model": "string"
        },
        "type": "string"
      }
    }
  },
  "values": [
    {
      "displayValue": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "concat": [
          "FormInputValueProperty"
        ],
        "value": "string"
      },
      "value": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "concat": [
          "FormInputValueProperty"
        ],
      }
    }
  ],
```

```
        "value": "string"
      }
    }
  ]
}
},
"label": "string",
"position": { ... },
"validations": [
  {
    "numValues": [ number ],
    "strValues": [ "string" ],
    "type": "string",
    "validationMessage": "string"
  }
]
}
},
"formActionType": "string",
"labelDecorator": "string",
"name": "string",
"schemaVersion": "string",
"sectionalElements": {
  "string" : {
    "excluded": boolean,
    "level": number,
    "orientation": "string",
    "position": { ... },
    "text": "string",
    "type": "string"
  }
},
"style": {
  "horizontalGap": { ... },
  "outerPadding": { ... },
  "verticalGap": { ... }
},
"tags": {
  "string" : "string"
}
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [appId](#)

The unique ID of the Amplify app to associate with the form.

Required: Yes

### [clientToken](#)

The unique client token.

### [environmentName](#)

The name of the backend environment that is a part of the Amplify app.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### [cta](#)

The FormCTA object that stores the call to action configuration for the form.

Type: [FormCTA](#) object

Required: No

### [dataType](#)

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

Required: Yes

### [fields](#)

The configuration information for the form's fields.

Type: String to [FieldConfig](#) object map

Required: Yes

### formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: create | update

Required: Yes

### labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

Required: No

### name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### schemaVersion

The schema version of the form.

Type: String

Required: Yes

### sectionalElements

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to [SectionalElement](#) object map

Required: Yes

## style

The configuration for the form's style.

Type: [FormStyle](#) object

Required: Yes

## tags

One or more key-value pairs to use when tagging the form data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-. \_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "cta": {
    "cancel": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "clear": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "position": "string",
    "submit": {
      "children": "string",
      "excluded": boolean,
```

```

    "position": { ... }
  }
},
"dataType": {
  "dataSourceType": "string",
  "dataTypeName": "string"
},
"environmentName": "string",
"fields": {
  "string" : {
    "excluded": boolean,
    "inputType": {
      "defaultChecked": boolean,
      "defaultCountryCode": "string",
      "defaultValue": "string",
      "descriptiveText": "string",
      "fileUploaderConfig": {
        "acceptedFileTypes": [ "string" ],
        "accessLevel": "string",
        "isResumable": boolean,
        "maxFileCount": number,
        "maxSize": number,
        "showThumbnails": boolean
      },
      "isArray": boolean,
      "maxValue": number,
      "minValue": number,
      "name": "string",
      "placeholder": "string",
      "readOnly": boolean,
      "required": boolean,
      "step": number,
      "type": "string",
      "value": "string",
      "valueMappings": {
        "bindingProperties": {
          "string" : {
            "bindingProperties": {
              "model": "string"
            },
            "type": "string"
          }
        }
      },
      "values": [

```

```

        {
            "displayValue": {
                "bindingProperties": {
                    "field": "string",
                    "property": "string"
                },
                "concat": [
                    "FormInputValueProperty"
                ],
                "value": "string"
            },
            "value": {
                "bindingProperties": {
                    "field": "string",
                    "property": "string"
                },
                "concat": [
                    "FormInputValueProperty"
                ],
                "value": "string"
            }
        }
    ]
}
},
"label": "string",
"position": { ... },
"validations": [
    {
        "numValues": [ number ],
        "strValues": [ "string" ],
        "type": "string",
        "validationMessage": "string"
    }
]
}
},
"formActionType": "string",
"id": "string",
"labelDecorator": "string",
"name": "string",
"schemaVersion": "string",
"sectionalElements": {
    "string" : {

```

```
    "excluded": boolean,
    "level": number,
    "orientation": "string",
    "position": { ... },
    "text": "string",
    "type": "string"
  }
},
"style": {
  "horizontalGap": { ... },
  "outerPadding": { ... },
  "verticalGap": { ... }
},
"tags": {
  "string" : "string"
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appId

The unique ID of the Amplify app associated with the form.

Type: String

### cta

Stores the call to action configuration for the form.

Type: [FormCTA](#) object

### dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

### environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

### fields

Stores the information about the form's fields.

Type: String to [FieldConfig](#) object map

### formActionType

The operation to perform on the specified form.

Type: String

Valid Values: create | update

### id

The unique ID of the form.

Type: String

### labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

### name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### schemaVersion

The schema version of the form when it was imported.

Type: String

### sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to [SectionalElement](#) object map

### style

Stores the configuration for the form's style.

Type: [FormStyle](#) object

### tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-.\_: / ]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### **InvalidParameterException**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### **ResourceConflictException**

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

### **ServiceQuotaExceededException**

You exceeded your service quota. Service quotas, also referred to as limits, are the maximum number of service resources or operations for your AWS account.

HTTP Status Code: 402

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateTheme

Creates a theme to apply to the components in an Amplify app.

## Request Syntax

```
POST /app/appId/environment/environmentName/themes?clientToken=clientToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "name": "string",  
  "overrides": [  
    {  
      "key": "string",  
      "value": {  
        "children": [  
          "ThemeValues"  
        ],  
        "value": "string"  
      }  
    }  
  ],  
  "tags": {  
    "string" : "string"  
  },  
  "values": [  
    {  
      "key": "string",  
      "value": {  
        "children": [  
          "ThemeValues"  
        ],  
        "value": "string"  
      }  
    }  
  ]  
}
```

## URI Request Parameters

The request uses the following URI parameters.

## appId

The unique ID of the Amplify app associated with the theme.

Required: Yes

## clientToken

The unique client token.

## environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### overrides

Describes the properties that can be overridden to customize an instance of the theme.

Type: Array of [ThemeValues](#) objects

Required: No

### tags

One or more key-value pairs to use when tagging the theme data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "createdAt": "string",
  "environmentName": "string",
  "id": "string",
  "modifiedAt": "string",
  "name": "string",
  "overrides": [
    {
      "key": "string",
      "value": {
        "children": [
          "ThemeValues"
        ],
        "value": "string"
      }
    }
  ],
  "tags": {
    "string" : "string"
  },
  "values": [
    {
      "key": "string",
```

```
    "value": {
      "children": [
        "ThemeValues"
      ],
      "value": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appId

The unique ID for the Amplify app associated with the theme.

Type: String

### createdAt

The time that the theme was created.

Type: Timestamp

### environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

### id

The ID for the theme.

Type: String

### modifiedAt

The time that the theme was modified.

Type: Timestamp

## name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

## overrides

Describes the properties that can be overridden to customize a theme.

Type: Array of [ThemeValues](#) objects

## tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### **ResourceConflictException**

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

### **ServiceQuotaExceededException**

You exceeded your service quota. Service quotas, also referred to as limits, are the maximum number of service resources or operations for your AWS account.

HTTP Status Code: 402

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteComponent

Deletes a component from an Amplify app.

## Request Syntax

```
DELETE /app/appId/environment/environmentName/components/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app associated with the component to delete.

Required: Yes

### environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

### id

The unique ID of the component to delete.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteForm

Deletes a form from an Amplify app.

## Request Syntax

```
DELETE /app/appId/environment/environmentName/forms/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app associated with the form to delete.

Required: Yes

### environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

### id

The unique ID of the form to delete.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteTheme

Deletes a theme from an Amplify app.

## Request Syntax

```
DELETE /app/appId/environment/environmentName/themes/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app associated with the theme to delete.

Required: Yes

### environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

### id

The unique ID of the theme to delete.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ExchangeCodeForToken

## Note

This is for internal use.

Amplify uses this action to exchange an access code for a token.

## Request Syntax

```
POST /tokens/provider HTTP/1.1  
Content-type: application/json
```

```
{  
  "clientId": "string",  
  "code": "string",  
  "redirectUri": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### provider

The third-party provider for the token. The only valid value is `figma`.

Valid Values: `figma`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### clientId

The ID of the client to request the token from.

Type: String

Required: No

### code

The access code to send in the request.

Type: String

Required: Yes

### redirectUri

The location of the application that will receive the access code.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "accessToken": "string",
  "expiresIn": number,
  "refreshToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### accessToken

The access token.

Type: String

## expiresIn

The date and time when the new access token expires.

Type: Integer

## refreshToken

The token to use to refresh a previously issued access token that might have expired.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ExportComponents

Exports component configurations to code that is ready to integrate into an Amplify app.

## Request Syntax

```
GET /export/app/appId/environment/environmentName/components?nextToken=nextToken
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app to export components to.

Required: Yes

### environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

### nextToken

The token to request the next page of results.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "entities": [
    {
      "appId": "string",
      "bindingProperties": {
```

```

    "string" : {
      "bindingProperties": {
        "bucket": "string",
        "defaultValue": "string",
        "field": "string",
        "key": "string",
        "model": "string",
        "predicates": [
          {
            "and": [
              "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
              "Predicate"
            ]
          }
        ],
        "slotName": "string",
        "userAttribute": "string"
      },
      "defaultValue": "string",
      "type": "string"
    }
  },
  "children": [
    {
      "children": [
        "ComponentChild"
      ],
      "componentType": "string",
      "events": {
        "string" : {
          "action": "string",
          "bindingEvent": "string",
          "parameters": {
            "anchor": {
              "bindingProperties": {
                "field": "string",
                "property": "string"
              }
            }
          }
        }
      }
    }
  ]
}

```

```
"bindings": {
  "string" : {
    "element": "string",
    "property": "string"
  }
},
"collectionBindingProperties": {
  "field": "string",
  "property": "string"
},
"componentName": "string",
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    }
  }
}
```

```
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
}
```

```

    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "id": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",

```

```
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
},
"model": "string",
"state": {
    "componentName": "string",
    "property": "string",
    "set": {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string": {
                "element": "string",
                "property": "string"
            }
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
```

```
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
},
"target": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string": {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    }
},
```

```

    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "type": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",

```

```
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "url": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
}
```

```
},
  "name": "string",
  "properties": {
    "string": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
      "model": "string",
      "property": "string",
      "type": "string",
      "userAttribute": "string",
      "value": "string"
    }
  },
  "sourceId": "string"
}
```

```

],
"collectionProperties": {
  "string" : {
    "identifiers": [ "string" ],
    "model": "string",
    "predicate": {
      "and": [
        "Predicate"
      ],
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "or": [
        "Predicate"
      ]
    },
    "sort": [
      {
        "direction": "string",
        "field": "string"
      }
    ]
  }
},
"componentType": "string",
"createdAt": "string",
"environmentName": "string",
"events": {
  "string" : {
    "action": "string",
    "bindingEvent": "string",
    "parameters": {
      "anchor": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "bindings": {
          "string" : {
            "element": "string",
            "property": "string"
          }
        }
      }
    }
  },
},

```

```

    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "fields": {
    "string" : {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string" : {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",

```

```

    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",

```

```
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
},
"id": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    }
}
```

```
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "model": "string",
  "state": {
    "componentName": "string",
    "property": "string",
    "set": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
```

```
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
```

```
"type": "string",
"userAttribute": "string",
"value": "string"
},
"type": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"url": {
  "bindingProperties": {
```

```
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
    }
}
}
},
"__id": "string",
"__modifiedAt": "string",
"__name": "string",
"__overrides": {
    "string" : {
```

```
    "string" : "string"
  }
},
"properties": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"schemaVersion": "string",
```

```
    "sourceId": "string",
    "tags": {
      "string" : "string"
    },
    "variants": [
      {
        "overrides": {
          "string" : {
            "string" : "string"
          }
        },
        "variantValues": {
          "string" : "string"
        }
      }
    ]
  },
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### entities

Represents the configuration of the exported components.

Type: Array of [Component](#) objects

### nextToken

The pagination token that's included if more results are available.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

## InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ExportForms

Exports form configurations to code that is ready to integrate into an Amplify app.

## Request Syntax

```
GET /export/app/appId/environment/environmentName/forms?nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [appId](#)

The unique ID of the Amplify app to export forms to.

Required: Yes

### [environmentName](#)

The name of the backend environment that is a part of the Amplify app.

Required: Yes

### [nextToken](#)

The token to request the next page of results.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "entities": [
    {
      "appId": "string",
      "cta": {
        "cancel": {
```

```
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  },
  "clear": {
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  },
  "position": "string",
  "submit": {
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  }
},
"dataType": {
  "dataSourceType": "string",
  "dataTypeName": "string"
},
"environmentName": "string",
"fields": {
  "string" : {
    "excluded": boolean,
    "inputType": {
      "defaultChecked": boolean,
      "defaultCountryCode": "string",
      "defaultValue": "string",
      "descriptiveText": "string",
      "fileUploaderConfig": {
        "acceptedFileTypes": [ "string" ],
        "accessLevel": "string",
        "isResumable": boolean,
        "maxFileCount": number,
        "maxSize": number,
        "showThumbnails": boolean
      },
      "isArray": boolean,
      "maxValue": number,
      "minValue": number,
      "name": "string",
      "placeholder": "string",
      "readOnly": boolean,
      "required": boolean,
```

```

    "step": number,
    "type": "string",
    "value": "string",
    "valueMappings": {
      "bindingProperties": {
        "string" : {
          "bindingProperties": {
            "model": "string"
          },
          "type": "string"
        }
      },
      "values": [
        {
          "displayValue": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            },
            "concat": [
              "FormInputValueProperty"
            ],
            "value": "string"
          },
          "value": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            },
            "concat": [
              "FormInputValueProperty"
            ],
            "value": "string"
          }
        }
      ]
    },
    "label": "string",
    "position": { ... },
    "validations": [
      {
        "numValues": [ number ],
        "strValues": [ "string" ],

```

```

        "type": "string",
        "validationMessage": "string"
      }
    ]
  },
  "formActionType": "string",
  "id": "string",
  "labelDecorator": "string",
  "name": "string",
  "schemaVersion": "string",
  "sectionalElements": {
    "string" : {
      "excluded": boolean,
      "level": number,
      "orientation": "string",
      "position": { ... },
      "text": "string",
      "type": "string"
    }
  },
  "style": {
    "horizontalGap": { ... },
    "outerPadding": { ... },
    "verticalGap": { ... }
  },
  "tags": {
    "string" : "string"
  }
}
],
"nextToken": "string"
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### entities

Represents the configuration of the exported forms.

Type: Array of [Form](#) objects

### [nextToken](#)

The pagination token that's included if more results are available.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ExportThemes

Exports theme configurations to code that is ready to integrate into an Amplify app.

## Request Syntax

```
GET /export/app/appId/environment/environmentName/themes?nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app to export the themes to.

Required: Yes

### environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

### nextToken

The token to request the next page of results.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "entities": [
    {
      "appId": "string",
      "createdAt": "string",
```

```
"environmentName": "string",
"id": "string",
"modifiedAt": "string",
"name": "string",
"overrides": [
  {
    "key": "string",
    "value": {
      "children": [
        "ThemeValues"
      ],
      "value": "string"
    }
  }
],
"tags": {
  "string" : "string"
},
"values": [
  {
    "key": "string",
    "value": {
      "children": [
        "ThemeValues"
      ],
      "value": "string"
    }
  }
]
},
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### entities

Represents the configuration of the exported themes.

Type: Array of [Theme](#) objects

### [nextToken](#)

The pagination token that's included if more results are available.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetCodegenJob

Returns an existing code generation job.

## Request Syntax

```
GET /app/appId/environment/environmentName/codegen-jobs/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app associated with the code generation job.

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

Required: Yes

### environmentName

The name of the backend environment that is a part of the Amplify app associated with the code generation job.

Required: Yes

### id

The unique ID of the code generation job.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "appId": "string",
  "asset": {
    "downloadUrl": "string"
  },
  "autoGenerateForms": boolean,
  "createdAt": "string",
  "dependencies": [
    {
      "isSemVer": boolean,
      "name": "string",
      "reason": "string",
      "supportedVersion": "string"
    }
  ],
  "environmentName": "string",
  "features": {
    "isNonModelSupported": boolean,
    "isRelationshipSupported": boolean
  },
  "genericDataSchema": {
    "dataSourceType": "string",
    "enums": {
      "string": {
        "values": [ "string" ]
      }
    }
  },
  "models": {
    "string": {
      "fields": {
        "string": {
          "dataType": "string",
          "dataTypeValue": "string",
          "isArray": boolean,
          "readOnly": boolean,
          "relationship": {
            "associatedFields": [ "string" ],
            "belongsToFieldOnRelatedModel": "string",
            "canUnlinkAssociatedModel": boolean,
            "isHasManyIndex": boolean,
            "relatedJoinFieldName": "string",
            "relatedJoinTableName": "string",
            "relatedModelFields": [ "string" ],
```

```

        "relatedModelName": "string",
        "type": "string"
    },
    "required": boolean
}
},
"isJoinTable": boolean,
"primaryKeys": [ "string" ]
}
},
"nonModels": {
    "string" : {
        "fields": {
            "string" : {
                "dataType": "string",
                "dataTypeValue": "string",
                "isArray": boolean,
                "readOnly": boolean,
                "relationship": {
                    "associatedFields": [ "string" ],
                    "belongsToFieldOnRelatedModel": "string",
                    "canUnlinkAssociatedModel": boolean,
                    "isHasManyIndex": boolean,
                    "relatedJoinFieldName": "string",
                    "relatedJoinTableName": "string",
                    "relatedModelFields": [ "string" ],
                    "relatedModelName": "string",
                    "type": "string"
                },
                "required": boolean
            }
        }
    }
}
},
"id": "string",
"modifiedAt": "string",
"renderConfig": { ... },
"status": "string",
"statusMessage": "string",
"tags": {
    "string" : "string"
}
}

```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appId

The ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

### asset

The CodegenJobAsset to use for the code generation job.

Type: [CodegenJobAsset](#) object

### autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

### createdAt

The time that the code generation job was created.

Type: Timestamp

### dependencies

Lists the dependency packages that may be required for the project code to run.

Type: Array of [CodegenDependency](#) objects

### environmentName

The name of the backend environment associated with the code generation job.

Type: String

### features

Describes the feature flags that you can specify for a code generation job.

Type: [CodegenFeatureFlags](#) object

### genericDataSchema

Describes the data schema for a code generation job.

Type: [CodegenJobGenericDataSchema](#) object

### id

The unique ID for the code generation job.

Type: String

### modifiedAt

The time that the code generation job was modified.

Type: Timestamp

### renderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

Type: [CodegenJobRenderConfig](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### status

The status of the code generation job.

Type: String

Valid Values: `in_progress` | `failed` | `succeeded`

### statusMessage

The customized status message for the code generation job.

Type: String

## tags

One or more key-value pairs to use when tagging the code generation job.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetComponent

Returns an existing component for an Amplify app.

## Request Syntax

```
GET /app/appId/environment/environmentName/components/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app.

Required: Yes

### environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

### id

The unique ID of the component.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "bindingProperties": {
    "string" : {
```

```
"bindingProperties": {
  "bucket": "string",
  "defaultValue": "string",
  "field": "string",
  "key": "string",
  "model": "string",
  "predicates": [
    {
      "and": [
        "Predicate"
      ],
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "or": [
        "Predicate"
      ]
    }
  ],
  "slotName": "string",
  "userAttribute": "string"
},
"defaultValue": "string",
"type": "string"
}
},
"children": [
  {
    "children": [
      "ComponentChild"
    ],
    "componentType": "string",
    "events": {
      "string": {
        "action": "string",
        "bindingEvent": "string",
        "parameters": {
          "anchor": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            },
            "bindings": {
```

```

    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    }
  },
},

```

```
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
```

```
"concat": [  
  "ComponentProperty"  
],  
"condition": {  
  "else": "ComponentProperty",  
  "field": "string",  
  "operand": "string",  
  "operandType": "string",  
  "operator": "string",  
  "property": "string",  
  "then": "ComponentProperty"  
},  
"configured": boolean,  
"defaultValue": "string",  
"event": "string",  
"importedValue": "string",  
"model": "string",  
"property": "string",  
"type": "string",  
"userAttribute": "string",  
"value": "string"  
},  
"id": {  
  "bindingProperties": {  
    "field": "string",  
    "property": "string"  
  },  
  "bindings": {  
    "string": {  
      "element": "string",  
      "property": "string"  
    }  
  },  
  "collectionBindingProperties": {  
    "field": "string",  
    "property": "string"  
  },  
  "componentName": "string",  
  "concat": [  
    "ComponentProperty"  
  ],  
  "condition": {  
    "else": "ComponentProperty",  
    "field": "string",
```

```
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
```

```

        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
},
"target": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,

```

```
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"type": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
```

```
    "userAttribute": "string",
    "value": "string"
  },
  "url": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
}
}
```

```
"name": "string",
"properties": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"sourceId": "string"
}
```

```

"collectionProperties": {
  "string" : {
    "identifiers": [ "string" ],
    "model": "string",
    "predicate": {
      "and": [
        "Predicate"
      ],
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "or": [
        "Predicate"
      ]
    },
    "sort": [
      {
        "direction": "string",
        "field": "string"
      }
    ]
  }
},
"componentType": "string",
"createdAt": "string",
"environmentName": "string",
"events": {
  "string" : {
    "action": "string",
    "bindingEvent": "string",
    "parameters": {
      "anchor": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "bindings": {
          "string" : {
            "element": "string",
            "property": "string"
          }
        }
      },
      "collectionBindingProperties": {

```

```
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
```

```
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
},
"global": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string": {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
```

```
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
},
"__id": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
}
```

```
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
```

```
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
```

```
    "userAttribute": "string",
    "value": "string"
  },
  "type": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "url": {
    "bindingProperties": {
      "field": "string",
```

```
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
}
}
}
},
"__id": "string",
"__modifiedAt": "string",
"__name": "string",
"__overrides": {
  "string": {
    "string": "string"
  }
}
```

```
    }
  },
  "properties": {
    "string" : {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string" : {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
      "model": "string",
      "property": "string",
      "type": "string",
      "userAttribute": "string",
      "value": "string"
    }
  },
  "schemaVersion": "string",
  "sourceId": "string",
```

```
"tags": {
  "string" : "string"
},
"variants": [
  {
    "overrides": {
      "string" : {
        "string" : "string"
      }
    },
    "variantValues": {
      "string" : "string"
    }
  }
]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appId

The unique ID of the Amplify app associated with the component.

Type: String

### bindingProperties

The information to connect a component's properties to data at runtime. You can't specify tags as a valid property for bindingProperties.

Type: String to [ComponentBindingPropertiesValue](#) object map

### children

A list of the component's `ComponentChild` instances.

Type: Array of [ComponentChild](#) objects

## collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify tags as a valid property for `collectionProperties`.

Type: String to [ComponentDataConfiguration](#) object map

## componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

## createdAt

The time that the component was created.

Type: Timestamp

## environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

## events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

## id

The unique ID of the component.

Type: String

## modifiedAt

The time that the component was modified.

Type: Timestamp

## name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

## overrides

Describes the component's properties that can be overridden in a customized instance of the component. You can't specify tags as a valid property for overrides.

Type: String to string to string map map

## properties

Describes the component's properties. You can't specify tags as a valid property for properties.

Type: String to [ComponentProperty](#) object map

## schemaVersion

The schema version of the component when it was imported.

Type: String

## sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

## tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -= . \_ : / ]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of [ComponentVariant](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetForm

Returns an existing form for an Amplify app.

## Request Syntax

```
GET /app/appId/environment/environmentName/forms/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app.

Required: Yes

### environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

### id

The unique ID of the form.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "cta": {
    "cancel": {
```

```
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  },
  "clear": {
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  },
  "position": "string",
  "submit": {
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  }
},
"dataType": {
  "dataSourceType": "string",
  "dataTypeName": "string"
},
"environmentName": "string",
"fields": {
  "string" : {
    "excluded": boolean,
    "inputType": {
      "defaultChecked": boolean,
      "defaultCountryCode": "string",
      "defaultValue": "string",
      "descriptiveText": "string",
      "fileUploaderConfig": {
        "acceptedFileTypes": [ "string" ],
        "accessLevel": "string",
        "isResumable": boolean,
        "maxFileCount": number,
        "maxSize": number,
        "showThumbnails": boolean
      },
      "isArray": boolean,
      "maxValue": number,
      "minValue": number,
      "name": "string",
      "placeholder": "string",
      "readOnly": boolean,
      "required": boolean,
```

```

    "step": number,
    "type": "string",
    "value": "string",
    "valueMappings": {
      "bindingProperties": {
        "string" : {
          "bindingProperties": {
            "model": "string"
          },
          "type": "string"
        }
      },
      "values": [
        {
          "displayValue": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            },
            "concat": [
              "FormInputValueProperty"
            ],
            "value": "string"
          },
          "value": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            },
            "concat": [
              "FormInputValueProperty"
            ],
            "value": "string"
          }
        }
      ]
    }
  },
  "label": "string",
  "position": { ... },
  "validations": [
    {
      "numValues": [ number ],
      "strValues": [ "string" ],
    }
  ]
}

```

```
        "type": "string",
        "validationMessage": "string"
    }
]
}
},
"formActionType": "string",
"formId": "string",
"formLabelDecorator": "string",
"formName": "string",
"formSchemaVersion": "string",
"formSectionalElements": {
    "string" : {
        "excluded": boolean,
        "level": number,
        "orientation": "string",
        "position": { ... },
        "text": "string",
        "type": "string"
    }
},
"style": {
    "horizontalGap": { ... },
    "outerPadding": { ... },
    "verticalGap": { ... }
},
"tags": {
    "string" : "string"
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appId

The unique ID of the Amplify app associated with the form.

Type: String

### cta

Stores the call to action configuration for the form.

Type: [FormCTA](#) object

### dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

### environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

### fields

Stores the information about the form's fields.

Type: String to [FieldConfig](#) object map

### formActionType

The operation to perform on the specified form.

Type: String

Valid Values: create | update

### id

The unique ID of the form.

Type: String

### labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

### name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### schemaVersion

The schema version of the form when it was imported.

Type: String

### sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to [SectionalElement](#) object map

### style

Stores the configuration for the form's style.

Type: [FormStyle](#) object

### tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -= . \_ : / ]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerErrorException**

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### **InvalidParameterException**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## **ResourceNotFoundException**

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetMetadata

Returns existing metadata for an Amplify app.

## Request Syntax

```
GET /app/appId/environment/environmentName/metadata HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app.

Required: Yes

### environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "features": {
    "string" : "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### features

Represents the configuration settings for the features metadata.

Type: String to string map

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InvalidParameterException**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### **UnauthorizedException**

You don't have permission to perform this operation.

HTTP Status Code: 401

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetTheme

Returns an existing theme for an Amplify app.

## Request Syntax

```
GET /app/appId/environment/environmentName/themes/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID of the Amplify app.

Required: Yes

### environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

### id

The unique ID for the theme.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
```

```
"createdAt": "string",
"environmentName": "string",
"id": "string",
"modifiedAt": "string",
"name": "string",
"overrides": [
  {
    "key": "string",
    "value": {
      "children": [
        "ThemeValues"
      ],
      "value": "string"
    }
  }
],
"tags": {
  "string" : "string"
},
"values": [
  {
    "key": "string",
    "value": {
      "children": [
        "ThemeValues"
      ],
      "value": "string"
    }
  }
]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [appld](#)

The unique ID for the Amplify app associated with the theme.

Type: String

### createdAt

The time that the theme was created.

Type: Timestamp

### environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

### id

The ID for the theme.

Type: String

### modifiedAt

The time that the theme was modified.

Type: Timestamp

### name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### overrides

Describes the properties that can be overridden to customize a theme.

Type: Array of [ThemeValues](#) objects

### tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+ -=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCodegenJobs

Retrieves a list of code generation jobs for a specified Amplify app and backend environment.

## Request Syntax

```
GET /app/appId/environment/environmentName/codegen-jobs?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID for the Amplify app.

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

Required: Yes

### environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

### maxResults

The maximum number of jobs to retrieve.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token to request the next page of results.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "entities": [
    {
      "appId": "string",
      "createdAt": "string",
      "environmentName": "string",
      "id": "string",
      "modifiedAt": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### entities

The list of code generation jobs for the Amplify app.

Type: Array of [CodegenJobSummary](#) objects

### nextToken

The pagination token that's included if more results are available.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### **InvalidParameterException**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListComponents

Retrieves a list of components for a specified Amplify app and backend environment.

## Request Syntax

```
GET /app/appId/environment/environmentName/components?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID for the Amplify app.

Required: Yes

### environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

### maxResults

The maximum number of components to retrieve.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token to request the next page of results.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "entities": [
    {
      "appId": "string",
      "componentType": "string",
      "environmentName": "string",
      "id": "string",
      "name": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### entities

The list of components for the Amplify app.

Type: Array of [ComponentSummary](#) objects

### nextToken

The pagination token that's included if more results are available.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerError

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

## InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListForms

Retrieves a list of forms for a specified Amplify app and backend environment.

## Request Syntax

```
GET /app/appId/environment/environmentName/forms?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID for the Amplify app.

Required: Yes

### environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

### maxResults

The maximum number of forms to retrieve.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token to request the next page of results.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "entities": [
    {
      "appId": "string",
      "dataType": {
        "dataSourceType": "string",
        "dataTypeName": "string"
      },
      "environmentName": "string",
      "formActionType": "string",
      "id": "string",
      "name": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### entities

The list of forms for the Amplify app.

Type: Array of [FormSummary](#) objects

### nextToken

The pagination token that's included if more results are available.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

## InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Returns a list of tags for a specified Amazon Resource Name (ARN).

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) to use to list tags.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## tags

A list of tag key value pairs for a specified Amazon Resource Name (ARN).

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerErrorException**

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### **InvalidParameterException**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### **ResourceNotFoundException**

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **UnauthorizedException**

You don't have permission to perform this operation.

HTTP Status Code: 401

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListThemes

Retrieves a list of themes for a specified Amplify app and backend environment.

## Request Syntax

```
GET /app/appId/environment/environmentName/themes?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID for the Amplify app.

Required: Yes

### environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

### maxResults

The maximum number of theme results to return in the response.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token to request the next page of results.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "entities": [
    {
      "appId": "string",
      "environmentName": "string",
      "id": "string",
      "name": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### entities

The list of themes for the Amplify app.

Type: Array of [ThemeSummary](#) objects

### nextToken

The pagination token that's returned if more results are available.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerErrorException**

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### **InvalidParameterException**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PutMetadataFlag

Stores the metadata information about a feature on a form.

## Request Syntax

```
PUT /app/appId/environment/environmentName/metadata/features/featureName HTTP/1.1  
Content-type: application/json
```

```
{  
  "newValue": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID for the Amplify app.

Required: Yes

### environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

### featureName

The name of the feature associated with the metadata.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### newValue

The new information to store.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# RefreshToken

## Note

This is for internal use.

Amplify uses this action to refresh a previously issued access token that might have expired.

## Request Syntax

```
POST /tokens/provider/refresh HTTP/1.1
Content-type: application/json
```

```
{
  "clientId": "string",
  "token": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### provider

The third-party provider for the token. The only valid value is `figma`.

Valid Values: `figma`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### clientId

The ID of the client to request the token from.

Type: String

Required: No

### token

The token to use to refresh a previously issued access token that might have expired.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "accessToken": "string",
  "expiresIn": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### accessToken

The access token.

Type: String

### expiresIn

The date and time when the new access token expires.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartCodegenJob

Starts a code generation job for a specified Amplify app and backend environment.

## Request Syntax

```
POST /app/appId/environment/environmentName/codegen-jobs?clientToken=clientToken  
HTTP/1.1
```

```
Content-type: application/json
```

```
{  
  "autoGenerateForms": boolean,  
  "features": {  
    "isNonModelSupported": boolean,  
    "isRelationshipSupported": boolean  
  },  
  "genericDataSchema": {  
    "dataSourceType": "string",  
    "enums": {  
      "string" : {  
        "values": [ "string" ]  
      }  
    },  
    "models": {  
      "string" : {  
        "fields": {  
          "string" : {  
            "dataType": "string",  
            "dataTypeValue": "string",  
            "isArray": boolean,  
            "readOnly": boolean,  
            "relationship": {  
              "associatedFields": [ "string" ],  
              "belongsToFieldOnRelatedModel": "string",  
              "canUnlinkAssociatedModel": boolean,  
              "isHasManyIndex": boolean,  
              "relatedJoinFieldName": "string",  
              "relatedJoinTableName": "string",  
              "relatedModelFields": [ "string" ],  
              "relatedModelName": "string",  
              "type": "string"  
            }  
          },  
          "required": boolean  
        }  
      }  
    }  
  }  
}
```

```
    }
  },
  "isJoinTable": boolean,
  "primaryKeys": [ "string" ]
}
},
"nonModels": {
  "string" : {
    "fields": {
      "string" : {
        "dataType": "string",
        "dataTypeValue": "string",
        "isArray": boolean,
        "readOnly": boolean,
        "relationship": {
          "associatedFields": [ "string" ],
          "belongsToFieldOnRelatedModel": "string",
          "canUnlinkAssociatedModel": boolean,
          "isHasManyIndex": boolean,
          "relatedJoinFieldName": "string",
          "relatedJoinTableName": "string",
          "relatedModelFields": [ "string" ],
          "relatedModelName": "string",
          "type": "string"
        },
        "required": boolean
      }
    }
  }
}
},
"renderConfig": { ... },
"tags": {
  "string" : "string"
}
}
```

## URI Request Parameters

The request uses the following URI parameters.

## appId

The unique ID for the Amplify app.

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

Required: Yes

## clientToken

The idempotency token used to ensure that the code generation job request completes only once.

## environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

# Request Body

The request accepts the following data in JSON format.

## autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

Required: No

## features

The feature flags for a code generation job.

Type: [CodegenFeatureFlags](#) object

Required: No

## genericDataSchema

The data schema to use for a code generation job.

Type: [CodegenJobGenericDataSchema](#) object

Required: No

### renderConfig

The code generation configuration for the codegen job.

Type: [CodegenJobRenderConfig](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### tags

One or more key-value pairs to use when tagging the code generation job data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-. \_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "asset": {
    "downloadUrl": "string"
  },
  "autoGenerateForms": boolean,
  "createdAt": "string",
  "dependencies": [
    {
      "isSemVer": boolean,
      "name": "string",
      "reason": "string",
      "supportedVersion": "string"
    }
  ]
}
```

```

],
"environmentName": "string",
"features": {
  "isNonModelSupported": boolean,
  "isRelationshipSupported": boolean
},
"genericDataSchema": {
  "dataSourceType": "string",
  "enums": {
    "string": {
      "values": [ "string" ]
    }
  },
  "models": {
    "string": {
      "fields": {
        "string": {
          "dataType": "string",
          "dataTypeValue": "string",
          "isArray": boolean,
          "readOnly": boolean,
          "relationship": {
            "associatedFields": [ "string" ],
            "belongsToFieldOnRelatedModel": "string",
            "canUnlinkAssociatedModel": boolean,
            "isHasManyIndex": boolean,
            "relatedJoinFieldName": "string",
            "relatedJoinTableName": "string",
            "relatedModelFields": [ "string" ],
            "relatedModelName": "string",
            "type": "string"
          },
          "required": boolean
        }
      },
      "isJoinTable": boolean,
      "primaryKeys": [ "string" ]
    }
  },
  "nonModels": {
    "string": {
      "fields": {
        "string": {
          "dataType": "string",

```

```
    "dataTypeValue": "string",
    "isArray": boolean,
    "readOnly": boolean,
    "relationship": {
      "associatedFields": [ "string" ],
      "belongsToFieldOnRelatedModel": "string",
      "canUnlinkAssociatedModel": boolean,
      "isHasManyIndex": boolean,
      "relatedJoinFieldName": "string",
      "relatedJoinTableName": "string",
      "relatedModelFields": [ "string" ],
      "relatedModelName": "string",
      "type": "string"
    },
    "required": boolean
  }
}
}
},
"renderConfig": { ... },
"status": "string",
"statusMessage": "string",
"tags": {
  "string" : "string"
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [appld](#)

The ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

### asset

The CodegenJobAsset to use for the code generation job.

Type: [CodegenJobAsset](#) object

### autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

### createdAt

The time that the code generation job was created.

Type: Timestamp

### dependencies

Lists the dependency packages that may be required for the project code to run.

Type: Array of [CodegenDependency](#) objects

### environmentName

The name of the backend environment associated with the code generation job.

Type: String

### features

Describes the feature flags that you can specify for a code generation job.

Type: [CodegenFeatureFlags](#) object

### genericDataSchema

Describes the data schema for a code generation job.

Type: [CodegenJobGenericDataSchema](#) object

### id

The unique ID for the code generation job.

Type: String

## modifiedAt

The time that the code generation job was modified.

Type: Timestamp

## renderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

Type: [CodegenJobRenderConfig](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## status

The status of the code generation job.

Type: String

Valid Values: `in_progress` | `failed` | `succeeded`

## statusMessage

The customized status message for the code generation job.

Type: String

## tags

One or more key-value pairs to use when tagging the code generation job.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+--=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

## InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TagResource

Tags the resource with a tag key and value.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) to use to tag a resource.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

A list of tag key value pairs for a specified Amazon Resource Name (ARN).

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-.\_: / ]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UntagResource

Untags a resource with a specified Amazon Resource Name (ARN).

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) to use to untag a resource.

Required: Yes

### tagKeys

The tag keys to use to untag a resource.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: (?!aws:)[a-zA-Z+-. \_:/]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateComponent

Updates an existing component.

## Request Syntax

```
PATCH /app/appId/environment/environmentName/components/id?clientToken=clientToken
HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "bindingProperties": {
    "string" : {
      "bindingProperties": {
        "bucket": "string",
        "defaultValue": "string",
        "field": "string",
        "key": "string",
        "model": "string",
        "predicates": [
          {
            "and": [
              "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
              "Predicate"
            ]
          }
        ],
        "slotName": "string",
        "userAttribute": "string"
      },
      "defaultValue": "string",
      "type": "string"
    }
  },
  "children": [
    {
      "children": [
```

```
    "ComponentChild"
  ],
  "componentType": "string",
  "events": {
    "string": {
      "action": "string",
      "bindingEvent": "string",
      "parameters": {
        "anchor": {
          "bindingProperties": {
            "field": "string",
            "property": "string"
          },
          "bindings": {
            "string": {
              "element": "string",
              "property": "string"
            }
          },
          "collectionBindingProperties": {
            "field": "string",
            "property": "string"
          },
          "componentName": "string",
          "concat": [
            "ComponentProperty"
          ],
          "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
          },
          "configured": boolean,
          "defaultValue": "string",
          "event": "string",
          "importedValue": "string",
          "model": "string",
          "property": "string",
          "type": "string",
          "userAttribute": "string",
```

```
    "value": "string"
  },
  "fields": {
    "string": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
      "model": "string",
      "property": "string",
      "type": "string",
      "userAttribute": "string",
      "value": "string"
    }
  },
  "global": {
    "bindingProperties": {
```

```
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"__id": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
```

```
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "model": "string",
  "state": {
    "componentName": "string",
    "property": "string",
    "set": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      }
    }
  }
}
```

```
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
}
```

```

    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "type": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",

```

```
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
},
"url": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    }
}
```

```
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
}
},
"bindingProperties": {
  "field": "string",
  "property": "string"
},
"bindings": {
  "string" : {
    "element": "string",
    "property": "string"
  }
},
"collectionBindingProperties": {
  "field": "string",
  "property": "string"
},
"componentName": "string",
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
```

```
        "configured": boolean,
        "defaultValue": "string",
        "event": "string",
        "importedValue": "string",
        "model": "string",
        "property": "string",
        "type": "string",
        "userAttribute": "string",
        "value": "string"
    }
},
"sourceId": "string"
}
],
"collectionProperties": {
    "string" : {
        "identifiers": [ "string" ],
        "model": "string",
        "predicate": {
            "and": [
                "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
                "Predicate"
            ]
        },
        "sort": [
            {
                "direction": "string",
                "field": "string"
            }
        ]
    }
},
"componentType": "string",
"events": {
    "string" : {
        "action": "string",
        "bindingEvent": "string",
        "parameters": {
```

```
"anchor": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    }
  },
}
```

```
"bindings": {
  "string" : {
    "element": "string",
    "property": "string"
  }
},
"collectionBindingProperties": {
  "field": "string",
  "property": "string"
},
"componentName": "string",
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  }
}
```

```
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "id": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
```

```
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
```

```
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
```

```
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"type": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
```

```
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"url": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
```

```
        "userAttribute": "string",
        "value": "string"
    }
}
},
"bindingProperties": {
    "string": {
        "string": "string"
    }
},
"bindings": {
    "string": {
        "element": "string",
        "property": "string"
    }
},
"collectionBindingProperties": {
    "field": "string",
    "property": "string"
},
"componentName": "string",
"concat": [
    "ComponentProperty"
],
"condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
```

```
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"schemaVersion": "string",
"sourceId": "string",
"variants": [
  {
    "overrides": {
      "string": {
        "string": "string"
      }
    },
    "variantValues": {
      "string": "string"
    }
  }
]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID for the Amplify app.

Required: Yes

### clientToken

The unique client token.

### environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

## id

The unique ID for the component.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### bindingProperties

The data binding information for the component's properties.

Type: String to [ComponentBindingPropertiesValue](#) object map

Required: No

### children

The components that are instances of the main component.

Type: Array of [ComponentChild](#) objects

Required: No

### collectionProperties

The configuration for binding a component's properties to a data model. Use this for a collection component.

Type: String to [ComponentDataConfiguration](#) object map

Required: No

### componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

## id

The unique ID of the component to update.

Type: String

Required: No

## name

The name of the component to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## overrides

Describes the properties that can be overridden to customize the component.

Type: String to string to string map map

Required: No

## properties

Describes the component's properties.

Type: String to [ComponentProperty](#) object map

Required: No

## schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

### [sourceId](#)

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

### [variants](#)

A list of the unique variants of the main component being updated.

Type: Array of [ComponentVariant](#) objects

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "bindingProperties": {
    "string": {
      "bindingProperties": {
        "bucket": "string",
        "defaultValue": "string",
        "field": "string",
        "key": "string",
        "model": "string",
        "predicates": [
          {
            "and": [
              "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
              "Predicate"
            ]
          }
        ]
      }
    }
  }
}
```

```

    ]
  }
],
  "slotName": "string",
  "userAttribute": "string"
},
"defaultValue": "string",
"type": "string"
}
},
"children": [
  {
    "children": [
      "ComponentChild"
    ],
    "componentType": "string",
    "events": {
      "string": {
        "action": "string",
        "bindingEvent": "string",
        "parameters": {
          "anchor": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            },
            "bindings": {
              "string": {
                "element": "string",
                "property": "string"
              }
            },
            "collectionBindingProperties": {
              "field": "string",
              "property": "string"
            },
            "componentName": "string",
            "concat": [
              "ComponentProperty"
            ],
            "condition": {
              "else": "ComponentProperty",
              "field": "string",
              "operand": "string",

```

```
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
},
"fields": {
    "string" : {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string" : {
                "element": "string",
                "property": "string"
            }
        },
        "collectionBindingProperties": {
            "field": "string",
            "property": "string"
        },
        "componentName": "string",
        "concat": [
            "ComponentProperty"
        ],
        "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
        }
    },
}
```

```
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
```

```
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"id": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"model": "string",
```

```
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"target": {
  "bindingProperties": {
```

```
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"type": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
```

```
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "url": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  }
}
```

```

    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
}
},
"name": "string",
"properties": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    }
  },

```

```

    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"sourceId": "string"
}
],
"collectionProperties": {
  "string" : {
    "identifiers": [ "string" ],
    "model": "string",
    "predicate": {
      "and": [
        "Predicate"
      ],
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "or": [
        "Predicate"
      ]
    ]
  },
  "sort": [

```

```

        {
            "direction": "string",
            "field": "string"
        }
    ]
}
},
"componentType": "string",
"createdAt": "string",
"environmentName": "string",
"events": {
    "string" : {
        "action": "string",
        "bindingEvent": "string",
        "parameters": {
            "anchor": {
                "bindingProperties": {
                    "field": "string",
                    "property": "string"
                },
                "bindings": {
                    "string" : {
                        "element": "string",
                        "property": "string"
                    }
                },
                "collectionBindingProperties": {
                    "field": "string",
                    "property": "string"
                },
                "componentName": "string",
                "concat": [
                    "ComponentProperty"
                ],
                "condition": {
                    "else": "ComponentProperty",
                    "field": "string",
                    "operand": "string",
                    "operandType": "string",
                    "operator": "string",
                    "property": "string",
                    "then": "ComponentProperty"
                },
                "configured": boolean,

```

```
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
```

```
        "type": "string",
        "userAttribute": "string",
        "value": "string"
    }
},
"global": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
},
"id": {
```

```
"bindingProperties": {
  "field": "string",
  "property": "string"
},
"bindings": {
  "string" : {
    "element": "string",
    "property": "string"
  }
},
"collectionBindingProperties": {
  "field": "string",
  "property": "string"
},
"componentName": "string",
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
```

```
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
},
"target": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
```

```
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "type": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  }
}
```

```
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "url": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
```

```
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
}
}
},
"__id": "string",
"__modifiedAt": "string",
"__name": "string",
"__overrides": {
    "string" : {
        "string" : "string"
    }
},
"__properties": {
    "string" : {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string" : {
                "element": "string",
                "property": "string"
            }
        },
        "collectionBindingProperties": {
            "field": "string",
            "property": "string"
        }
    }
}
```

```
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"schemaVersion": "string",
"sourceId": "string",
"tags": {
  "string" : "string"
},
"variants": [
  {
    "overrides": {
      "string" : {
        "string" : "string"
      }
    },
    "variantValues": {
      "string" : "string"
    }
  }
]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appId

The unique ID of the Amplify app associated with the component.

Type: String

### bindingProperties

The information to connect a component's properties to data at runtime. You can't specify tags as a valid property for `bindingProperties`.

Type: String to [ComponentBindingPropertiesValue](#) object map

### children

A list of the component's `ComponentChild` instances.

Type: Array of [ComponentChild](#) objects

### collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify tags as a valid property for `collectionProperties`.

Type: String to [ComponentDataConfiguration](#) object map

### componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### createdAt

The time that the component was created.

Type: Timestamp

### environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

### events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

### id

The unique ID of the component.

Type: String

### modifiedAt

The time that the component was modified.

Type: Timestamp

### name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### overrides

Describes the component's properties that can be overridden in a customized instance of the component. You can't specify tags as a valid property for overrides.

Type: String to string to string map map

### properties

Describes the component's properties. You can't specify tags as a valid property for properties.

Type: String to [ComponentProperty](#) object map

## schemaVersion

The schema version of the component when it was imported.

Type: String

## sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

## tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of [ComponentVariant](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## **ResourceConflictException**

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateForm

Updates an existing form.

## Request Syntax

```
PATCH /app/appId/environment/environmentName/forms/id?clientToken=clientToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "cta": {  
    "cancel": {  
      "children": "string",  
      "excluded": boolean,  
      "position": { ... }  
    },  
    "clear": {  
      "children": "string",  
      "excluded": boolean,  
      "position": { ... }  
    },  
    "position": "string",  
    "submit": {  
      "children": "string",  
      "excluded": boolean,  
      "position": { ... }  
    }  
  },  
  "dataType": {  
    "dataSourceType": "string",  
    "dataTypeName": "string"  
  },  
  "fields": {  
    "string" : {  
      "excluded": boolean,  
      "inputType": {  
        "defaultChecked": boolean,  
        "defaultCountryCode": "string",  
        "defaultValue": "string",  
        "descriptiveText": "string",  
        "fileUploaderConfig": {  
          "acceptedFileTypes": [ "string" ],  
          "accessLevel": "string",
```

```
    "isResumable": boolean,
    "maxFileCount": number,
    "maxSize": number,
    "showThumbnails": boolean
  },
  "isArray": boolean,
  "maxValue": number,
  "minValue": number,
  "name": "string",
  "placeholder": "string",
  "readOnly": boolean,
  "required": boolean,
  "step": number,
  "type": "string",
  "value": "string",
  "valueMappings": {
    "bindingProperties": {
      "string" : {
        "bindingProperties": {
          "model": "string"
        },
        "type": "string"
      }
    },
    "values": [
      {
        "displayValue": {
          "bindingProperties": {
            "field": "string",
            "property": "string"
          },
          "concat": [
            "FormInputValueProperty"
          ],
          "value": "string"
        },
        "value": {
          "bindingProperties": {
            "field": "string",
            "property": "string"
          },
          "concat": [
            "FormInputValueProperty"
          ],

```

```
        "value": "string"
      }
    }
  ]
}
},
"label": "string",
"position": { ... },
"validations": [
  {
    "numValues": [ number ],
    "strValues": [ "string" ],
    "type": "string",
    "validationMessage": "string"
  }
]
}
},
"formActionType": "string",
"labelDecorator": "string",
"name": "string",
"schemaVersion": "string",
"sectionalElements": {
  "string" : {
    "excluded": boolean,
    "level": number,
    "orientation": "string",
    "position": { ... },
    "text": "string",
    "type": "string"
  }
},
"style": {
  "horizontalGap": { ... },
  "outerPadding": { ... },
  "verticalGap": { ... }
}
}
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID for the Amplify app.

Required: Yes

### clientToken

The unique client token.

### environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

### id

The unique ID for the form.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### cta

The FormCTA object that stores the call to action configuration for the form.

Type: [FormCTA](#) object

Required: No

### dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

Required: No

### fields

The configuration information for the form's fields.

Type: String to [FieldConfig](#) object map

Required: No

### formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: create | update

Required: No

### labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

Required: No

### name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### schemaVersion

The schema version of the form.

Type: String

Required: No

### sectionalElements

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to [SectionalElement](#) object map

Required: No

## style

The configuration for the form's style.

Type: [FormStyle](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "appId": "string",
  "cta": {
    "cancel": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "clear": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "position": "string",
    "submit": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    }
  },
  "dataType": {
    "dataSourceType": "string",
    "dataTypeName": "string"
  },
  "environmentName": "string",
  "fields": {
    "string" : {
      "excluded": boolean,
      "inputType": {
        "defaultChecked": boolean,
```

```
"defaultCountryCode": "string",
"defaultValue": "string",
"descriptiveText": "string",
"fileUploaderConfig": {
  "acceptedFileTypes": [ "string" ],
  "accessLevel": "string",
  "isResumable": boolean,
  "maxFileCount": number,
  "maxSize": number,
  "showThumbnails": boolean
},
"isArray": boolean,
"maxValue": number,
"minValue": number,
"name": "string",
"placeholder": "string",
"readOnly": boolean,
"required": boolean,
"step": number,
"type": "string",
"value": "string",
"valueMappings": {
  "bindingProperties": {
    "string" : {
      "bindingProperties": {
        "model": "string"
      },
      "type": "string"
    }
  },
  "values": [
    {
      "displayValue": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "concat": [
          "FormInputValueProperty"
        ],
        "value": "string"
      },
      "value": {
        "bindingProperties": {
```

```

        "field": "string",
        "property": "string"
    },
    "concat": [
        "FormInputValueProperty"
    ],
    "value": "string"
}
}
]
}
},
"label": "string",
"position": { ... },
"validations": [
    {
        "numValues": [ number ],
        "strValues": [ "string" ],
        "type": "string",
        "validationMessage": "string"
    }
]
}
},
"formActionType": "string",
"id": "string",
"labelDecorator": "string",
"name": "string",
"schemaVersion": "string",
"sectionalElements": {
    "string" : {
        "excluded": boolean,
        "level": number,
        "orientation": "string",
        "position": { ... },
        "text": "string",
        "type": "string"
    }
},
"style": {
    "horizontalGap": { ... },
    "outerPadding": { ... },
    "verticalGap": { ... }
},

```

```
"tags": {  
  "string" : "string"  
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appId

The unique ID of the Amplify app associated with the form.

Type: String

### cta

Stores the call to action configuration for the form.

Type: [FormCTA](#) object

### dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

### environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

### fields

Stores the information about the form's fields.

Type: String to [FieldConfig](#) object map

### formActionType

The operation to perform on the specified form.

Type: String

Valid Values: create | update

### id

The unique ID of the form.

Type: String

### labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

### name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### schemaVersion

The schema version of the form when it was imported.

Type: String

### sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to [SectionalElement](#) object map

### style

Stores the configuration for the form's style.

Type: [FormStyle](#) object

### tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateTheme

Updates an existing theme.

## Request Syntax

```
PATCH /app/appId/environment/environmentName/themes/id?clientToken=clientToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "id": "string",  
  "name": "string",  
  "overrides": [  
    {  
      "key": "string",  
      "value": {  
        "children": [  
          "ThemeValues"  
        ],  
        "value": "string"  
      }  
    }  
  ],  
  "values": [  
    {  
      "key": "string",  
      "value": {  
        "children": [  
          "ThemeValues"  
        ],  
        "value": "string"  
      }  
    }  
  ]  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### appId

The unique ID for the Amplify app.

Required: Yes

### clientToken

The unique client token.

### environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

### id

The unique ID for the theme.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### id

The unique ID of the theme to update.

Type: String

Required: No

### name

The name of the theme to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### overrides

Describes the properties that can be overridden to customize the theme.

Type: Array of [ThemeValues](#) objects

Required: No

### values

A list of key-value pairs that define the theme's properties.

Type: Array of [ThemeValues](#) objects

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "appId": "string",
  "createdAt": "string",
  "environmentName": "string",
  "id": "string",
  "modifiedAt": "string",
  "name": "string",
  "overrides": [
    {
      "key": "string",
      "value": {
        "children": [
          "ThemeValues"
        ],
        "value": "string"
      }
    }
  ],
  "tags": {
    "string" : "string"
  },
  "values": [
    {
      "key": "string",
      "value": {
        "children": [
```

```
    "ThemeValues"  
    ],  
    "value": "string"  
  }  
}  
]  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### appId

The unique ID for the Amplify app associated with the theme.

Type: String

### createdAt

The time that the theme was created.

Type: Timestamp

### environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

### id

The ID for the theme.

Type: String

### modifiedAt

The time that the theme was modified.

Type: Timestamp

### name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

### overrides

Describes the properties that can be overridden to customize a theme.

Type: Array of [ThemeValues](#) objects

### tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -= . \_ : / ]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

### values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerErrorException**

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

### **InvalidParameterException**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### **ResourceConflictException**

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The AWS Amplify UI Builder API contains several data types that various actions use. This section describes each data type in detail.

## Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [ActionParameters](#)
- [ApiConfiguration](#)
- [CodegenDependency](#)
- [CodegenFeatureFlags](#)
- [CodegenGenericDataEnum](#)
- [CodegenGenericDataField](#)
- [CodegenGenericDataModel](#)
- [CodegenGenericDataNonModel](#)
- [CodegenGenericDataRelationshipType](#)
- [CodegenJob](#)
- [CodegenJobAsset](#)
- [CodegenJobGenericDataSchema](#)
- [CodegenJobRenderConfig](#)
- [CodegenJobSummary](#)
- [Component](#)
- [ComponentBindingPropertiesValue](#)
- [ComponentBindingPropertiesValueProperties](#)
- [ComponentChild](#)
- [ComponentConditionProperty](#)
- [ComponentDataConfiguration](#)

- [ComponentEvent](#)
- [ComponentProperty](#)
- [ComponentPropertyBindingProperties](#)
- [ComponentSummary](#)
- [ComponentVariant](#)
- [CreateComponentData](#)
- [CreateFormData](#)
- [CreateThemeData](#)
- [DataStoreRenderConfig](#)
- [ExchangeCodeForTokenRequestBody](#)
- [FieldConfig](#)
- [FieldInputConfig](#)
- [FieldPosition](#)
- [FieldValidationConfiguration](#)
- [FileUploaderFieldConfig](#)
- [Form](#)
- [FormBindingElement](#)
- [FormButton](#)
- [FormCTA](#)
- [FormDataTypeConfig](#)
- [FormInputBindingPropertiesValue](#)
- [FormInputBindingPropertiesValueProperties](#)
- [FormInputValueProperty](#)
- [FormInputValuePropertyBindingProperties](#)
- [FormStyle](#)
- [FormStyleConfig](#)
- [FormSummary](#)
- [GraphQLRenderConfig](#)
- [MutationActionSetStateParameter](#)
- [NoApiRenderConfig](#)

- [Predicate](#)
- [PutMetadataFlagBody](#)
- [ReactStartCodegenJobData](#)
- [RefreshTokenRequestBody](#)
- [SectionalElement](#)
- [SortProperty](#)
- [StartCodegenJobData](#)
- [Theme](#)
- [ThemeSummary](#)
- [ThemeValue](#)
- [ThemeValues](#)
- [UpdateComponentData](#)
- [UpdateFormData](#)
- [UpdateThemeData](#)
- [ValueMapping](#)
- [ValueMappings](#)

# ActionParameters

Represents the event action configuration for an element of a `Component` or `ComponentChild`. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components. `ActionParameters` defines the action that is performed when an event occurs on the component.

## Contents

### anchor

The HTML anchor link to the location to open. Specify this value for a navigation action.

Type: [ComponentProperty](#) object

Required: No

### fields

A dictionary of key-value pairs mapping Amplify Studio properties to fields in a data model. Use when the action performs an operation on an Amplify DataStore model.

Type: String to [ComponentProperty](#) object map

Required: No

### global

Specifies whether the user should be signed out globally. Specify this value for an auth sign out action.

Type: [ComponentProperty](#) object

Required: No

### id

The unique ID of the component that the `ActionParameters` apply to.

Type: [ComponentProperty](#) object

Required: No

## model

The name of the data model. Use when the action performs an operation on an Amplify DataStore model.

Type: String

Required: No

## state

A key-value pair that specifies the state property name and its initial value.

Type: [MutationActionSetStateParameter](#) object

Required: No

## target

The element within the same component to modify when the action occurs.

Type: [ComponentProperty](#) object

Required: No

## type

The type of navigation action. Valid values are `url` and `anchor`. This value is required for a navigation action.

Type: [ComponentProperty](#) object

Required: No

## url

The URL to the location to open. Specify this value for a navigation action.

Type: [ComponentProperty](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ApiConfiguration

Describes the API configuration for a code generation job.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **dataStoreConfig**

The configuration for an application using DataStore APIs.

Type: [DataStoreRenderConfig](#) object

Required: No

### **graphqlConfig**

The configuration for an application using GraphQL APIs.

Type: [GraphQLRenderConfig](#) object

Required: No

### **noApiConfig**

The configuration for an application with no API being used.

Type: [NoApiRenderConfig](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenDependency

Dependency package that may be required for the project code to run.

## Contents

### isSemVer

Determines if the dependency package is using Semantic versioning. If set to true, it indicates that the dependency package uses Semantic versioning.

Type: Boolean

Required: No

### name

Name of the dependency package.

Type: String

Required: No

### reason

Indicates the reason to include the dependency package in your project code.

Type: String

Required: No

### supportedVersion

Indicates the version of the supported dependency package.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenFeatureFlags

Describes the feature flags that you can specify for a code generation job.

## Contents

### isNonModelSupported

Specifies whether a code generation job supports non models.

Type: Boolean

Required: No

### isRelationshipSupported

Specifies whether a code generation job supports data relationships.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenGenericDataEnum

Describes the enums in a generic data schema.

## Contents

### values

The list of enum values in the generic data schema.

Type: Array of strings

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenGenericDataField

Describes a field in a generic data schema.

## Contents

### dataType

The data type for the generic data field.

Type: String

Valid Values: ID | String | Int | Float | AWSDate | AWSTime | AWSDateTime | AWSTimestamp | AWSEmail | AWSURL | AWSIPAddress | Boolean | AWSJSON | AWSPhone | Enum | Model | NonModel

Required: Yes

### dataTypeValue

The value of the data type for the generic data field.

Type: String

Required: Yes

### isArray

Specifies whether the generic data field is an array.

Type: Boolean

Required: Yes

### readOnly

Specifies whether the generic data field is read-only.

Type: Boolean

Required: Yes

### required

Specifies whether the generic data field is required.

Type: Boolean

Required: Yes

## relationship

The relationship of the generic data schema.

Type: [CodegenGenericDataRelationshipType](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenGenericDataModel

Describes a model in a generic data schema.

## Contents

### fields

The fields in the generic data model.

Type: String to [CodegenGenericDataField](#) object map

Required: Yes

### primaryKeys

The primary keys of the generic data model.

Type: Array of strings

Required: Yes

### isJoinTable

Specifies whether the generic data model is a join table.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenGenericDataNonModel

Describes a non-model in a generic data schema.

## Contents

### fields

The fields in a generic data schema non model.

Type: String to [CodegenGenericDataField](#) object map

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenGenericDataRelationshipType

Describes the relationship between generic data models.

## Contents

### **relatedModelName**

The name of the related model in the data relationship.

Type: String

Required: Yes

### **type**

The data relationship type.

Type: String

Valid Values: HAS\_MANY | HAS\_ONE | BELONGS\_TO

Required: Yes

### **associatedFields**

The associated fields of the data relationship.

Type: Array of strings

Required: No

### **belongsToFieldOnRelatedModel**

The value of the belongsTo field on the related data model.

Type: String

Required: No

### **canUnlinkAssociatedModel**

Specifies whether the relationship can unlink the associated model.

Type: Boolean

Required: No

### **isHasManyIndex**

Specifies whether the @index directive is supported for a hasMany data relationship.

Type: Boolean

Required: No

### **relatedJoinFieldName**

The name of the related join field in the data relationship.

Type: String

Required: No

### **relatedJoinTableName**

The name of the related join table in the data relationship.

Type: String

Required: No

### **relatedModelFields**

The related model fields in the data relationship.

Type: Array of strings

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenJob

Describes the configuration for a code generation job that is associated with an Amplify app.

## Contents

### **appId**

The ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

Required: Yes

### **environmentName**

The name of the backend environment associated with the code generation job.

Type: String

Required: Yes

### **id**

The unique ID for the code generation job.

Type: String

Required: Yes

### **asset**

The CodegenJobAsset to use for the code generation job.

Type: [CodegenJobAsset](#) object

Required: No

### **autoGenerateForms**

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

Required: No

### **createdAt**

The time that the code generation job was created.

Type: Timestamp

Required: No

### **dependencies**

Lists the dependency packages that may be required for the project code to run.

Type: Array of [CodegenDependency](#) objects

Required: No

### **features**

Describes the feature flags that you can specify for a code generation job.

Type: [CodegenFeatureFlags](#) object

Required: No

### **genericDataSchema**

Describes the data schema for a code generation job.

Type: [CodegenJobGenericDataSchema](#) object

Required: No

### **modifiedAt**

The time that the code generation job was modified.

Type: Timestamp

Required: No

### **renderConfig**

Describes the configuration information for rendering the UI component associated with the code generation job.

Type: [CodegenJobRenderConfig](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### status

The status of the code generation job.

Type: String

Valid Values: `in_progress` | `failed` | `succeeded`

Required: No

### statusMessage

The customized status message for the code generation job.

Type: String

Required: No

### tags

One or more key-value pairs to use when tagging the code generation job.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-._: / ]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenJobAsset

Describes an asset for a code generation job.

## Contents

### downloadUrl

The URL to use to access the asset.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenJobGenericDataSchema

Describes the data schema for a code generation job.

## Contents

### dataSourceType

The type of the data source for the schema. Currently, the only valid value is an Amplify `DataStore`.

Type: String

Valid Values: `DataStore`

Required: Yes

### enums

The name of a `CodegenGenericDataEnum`.

Type: String to [CodegenGenericDataEnum](#) object map

Required: Yes

### models

The name of a `CodegenGenericDataModel`.

Type: String to [CodegenGenericDataModel](#) object map

Required: Yes

### nonModels

The name of a `CodegenGenericDataNonModel`.

Type: String to [CodegenGenericDataNonModel](#) object map

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenJobRenderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### react

The name of the ReactStartCodegenJobData object.

Type: [ReactStartCodegenJobData](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CodegenJobSummary

A summary of the basic information about the code generation job.

## Contents

### **appId**

The unique ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

Required: Yes

### **environmentName**

The name of the backend environment associated with the code generation job.

Type: String

Required: Yes

### **id**

The unique ID for the code generation job summary.

Type: String

Required: Yes

### **createdAt**

The time that the code generation job summary was created.

Type: Timestamp

Required: No

### **modifiedAt**

The time that the code generation job summary was modified.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Component

Contains the configuration settings for a user interface (UI) element for an Amplify app. A component is configured as a primary, stand-alone UI element. Use `ComponentChild` to configure an instance of a `Component`. A `ComponentChild` instance inherits the configuration of the main `Component`.

## Contents

### `appId`

The unique ID of the Amplify app associated with the component.

Type: String

Required: Yes

### `bindingProperties`

The information to connect a component's properties to data at runtime. You can't specify tags as a valid property for `bindingProperties`.

Type: String to [ComponentBindingPropertiesValue](#) object map

Required: Yes

### `componentType`

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### `createdAt`

The time that the component was created.

Type: Timestamp

Required: Yes

### **environmentName**

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

### **id**

The unique ID of the component.

Type: String

Required: Yes

### **name**

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### **overrides**

Describes the component's properties that can be overridden in a customized instance of the component. You can't specify tags as a valid property for overrides.

Type: String to string to string map map

Required: Yes

### **properties**

Describes the component's properties. You can't specify tags as a valid property for properties.

Type: String to [ComponentProperty](#) object map

Required: Yes

## variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of [ComponentVariant](#) objects

Required: Yes

## children

A list of the component's `ComponentChild` instances.

Type: Array of [ComponentChild](#) objects

Required: No

## collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify tags as a valid property for `collectionProperties`.

Type: String to [ComponentDataConfiguration](#) object map

Required: No

## events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

## modifiedAt

The time that the component was modified.

Type: Timestamp

Required: No

## schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

### **sourceId**

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

### **tags**

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentBindingPropertiesValue

Represents the data binding configuration for a component at runtime. You can use `ComponentBindingPropertiesValue` to add exposed properties to a component to allow different values to be entered when a component is reused in different places in an app.

## Contents

### `bindingProperties`

Describes the properties to customize with data at runtime.

Type: [ComponentBindingPropertiesValueProperties](#) object

Required: No

### `defaultValue`

The default value of the property.

Type: String

Required: No

### `type`

The property type.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentBindingPropertiesValueProperties

Represents the data binding configuration for a specific property using data stored in AWS. For AWS connected properties, you can bind a property to data stored in an Amazon S3 bucket, an Amplify DataStore model or an authenticated user attribute.

## Contents

### bucket

An Amazon S3 bucket.

Type: String

Required: No

### defaultValue

The default value to assign to the property.

Type: String

Required: No

### field

The field to bind the data to.

Type: String

Required: No

### key

The storage key for an Amazon S3 bucket.

Type: String

Required: No

### model

An Amplify DataStore model.

Type: String

Required: No

### **predicates**

A list of predicates for binding a component's properties to data.

Type: Array of [Predicate](#) objects

Required: No

### **slotName**

The name of a component slot.

Type: String

Required: No

### **userAttribute**

An authenticated user attribute.

Type: String

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentChild

A nested UI configuration within a parent Component.

## Contents

### componentType

The type of the child component.

Type: String

Required: Yes

### name

The name of the child component.

Type: String

Required: Yes

### properties

Describes the properties of the child component. You can't specify tags as a valid property for properties.

Type: String to [ComponentProperty](#) object map

Required: Yes

### children

The list of ComponentChild instances for this component.

Type: Array of [ComponentChild](#) objects

Required: No

### events

Describes the events that can be raised on the child component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

### **sourceId**

The unique ID of the child component in its original source system, such as Figma.

Type: String

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentConditionProperty

Represents a conditional expression to set a component property. Use `ComponentConditionProperty` to set a property to different values conditionally, based on the value of another property.

## Contents

### else

The value to assign to the property if the condition is not met.

Type: [ComponentProperty](#) object

Required: No

### field

The name of a field. Specify this when the property is a data model.

Type: String

Required: No

### operand

The value of the property to evaluate.

Type: String

Required: No

### operandType

The type of the property to evaluate.

Type: String

Required: No

### operator

The operator to use to perform the evaluation, such as `eq` to represent equals.

Type: String

Required: No

### **property**

The name of the conditional property.

Type: String

Required: No

### **then**

The value to assign to the property if the condition is met.

Type: [ComponentProperty](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentDataConfiguration

Describes the configuration for binding a component's properties to data.

## Contents

### model

The name of the data model to use to bind data to a component.

Type: String

Required: Yes

### identifiers

A list of IDs to use to bind data to a component. Use this property to bind specifically chosen data, rather than data retrieved from a query.

Type: Array of strings

Required: No

### predicate

Represents the conditional logic to use when binding data to a component. Use this property to retrieve only a subset of the data in a collection.

Type: [Predicate](#) object

Required: No

### sort

Describes how to sort the component's properties.

Type: Array of [SortProperty](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentEvent

Describes the configuration of an event. You can bind an event and a corresponding action to a Component or a ComponentChild. A button click is an example of an event.

## Contents

### action

The action to perform when a specific event is raised.

Type: String

Required: No

### bindingEvent

Binds an event to an action on a component. When you specify a bindingEvent, the event is called when the action is performed.

Type: String

Required: No

### parameters

Describes information about the action.

Type: [ActionParameters](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentProperty

Describes the configuration for all of a component's properties. Use `ComponentProperty` to specify the values to render or bind by default.

## Contents

### **bindingProperties**

The information to bind the component property to data at runtime.

Type: [ComponentPropertyBindingProperties](#) object

Required: No

### **bindings**

The information to bind the component property to form data.

Type: String to [FormBindingElement](#) object map

Required: No

### **collectionBindingProperties**

The information to bind the component property to data at runtime. Use this for collection components.

Type: [ComponentPropertyBindingProperties](#) object

Required: No

### **componentName**

The name of the component that is affected by an event.

Type: String

Required: No

### **concat**

A list of component properties to concatenate to create the value to assign to this component property.

Type: Array of [ComponentProperty](#) objects

Required: No

### **condition**

The conditional expression to use to assign a value to the component property.

Type: [ComponentConditionProperty](#) object

Required: No

### **configured**

Specifies whether the user configured the property in Amplify Studio after importing it.

Type: Boolean

Required: No

### **defaultValue**

The default value to assign to the component property.

Type: String

Required: No

### **event**

An event that occurs in your app. Use this for workflow data binding.

Type: String

Required: No

### **importedValue**

The default value assigned to the property when the component is imported into an app.

Type: String

Required: No

### **model**

The data model to use to assign a value to the component property.

Type: String

Required: No

### **property**

The name of the component's property that is affected by an event.

Type: String

Required: No

### **type**

The component type.

Type: String

Required: No

### **userAttribute**

An authenticated user attribute to use to assign a value to the component property.

Type: String

Required: No

### **value**

The value to assign to the component property.

Type: String

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ComponentPropertyBindingProperties

Associates a component property to a binding property. This enables exposed properties on the top level component to propagate data to the component's property values.

## Contents

### property

The component property to bind to the data field.

Type: String

Required: Yes

### field

The data field to bind the property to.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentSummary

Contains a summary of a component. This is a read-only data type that is returned by `ListComponents`.

## Contents

### **appId**

The unique ID of the Amplify app associated with the component.

Type: String

Required: Yes

### **componentType**

The component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### **environmentName**

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

### **id**

The unique ID of the component.

Type: String

Required: Yes

### **name**

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentVariant

Describes the style configuration of a unique variation of a main component.

## Contents

### overrides

The properties of the component variant that can be overridden when customizing an instance of the component. You can't specify tags as a valid property for `overrides`.

Type: String to string to string map map

Required: No

### variantValues

The combination of variants that comprise this variant. You can't specify tags as a valid property for `variantValues`.

Type: String to string map

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CreateComponentData

Represents all of the information that is required to create a component.

## Contents

### bindingProperties

The data binding information for the component's properties.

Type: String to [ComponentBindingPropertiesValue](#) object map

Required: Yes

### componentType

The component type. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### name

The name of the component

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### overrides

Describes the component properties that can be overridden to customize an instance of the component.

Type: String to string to string map map

Required: Yes

## properties

Describes the component's properties.

Type: String to [ComponentProperty](#) object map

Required: Yes

## variants

A list of the unique variants of this component.

Type: Array of [ComponentVariant](#) objects

Required: Yes

## children

A list of child components that are instances of the main component.

Type: Array of [ComponentChild](#) objects

Required: No

## collectionProperties

The data binding configuration for customizing a component's properties. Use this for a collection component.

Type: String to [ComponentDataConfiguration](#) object map

Required: No

## events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

## schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

### **sourceId**

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

### **tags**

One or more key-value pairs to use when tagging the component data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CreateFormData

Represents all of the information that is required to create a form.

## Contents

### dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

Required: Yes

### fields

The configuration information for the form's fields.

Type: String to [FieldConfig](#) object map

Required: Yes

### formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: create | update

Required: Yes

### name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### schemaVersion

The schema version of the form.

Type: String

Required: Yes

### **sectionalElements**

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to [SectionalElement](#) object map

Required: Yes

### **style**

The configuration for the form's style.

Type: [FormStyle](#) object

Required: Yes

### **cta**

The FormCTA object that stores the call to action configuration for the form.

Type: [FormCTA](#) object

Required: No

### **labelDecorator**

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

Required: No

### **tags**

One or more key-value pairs to use when tagging the form data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+--=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CreateThemeData

Represents all of the information that is required to create a theme.

## Contents

### name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

Required: Yes

### overrides

Describes the properties that can be overridden to customize an instance of the theme.

Type: Array of [ThemeValues](#) objects

Required: No

### tags

One or more key-value pairs to use when tagging the theme data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -= . \_ : / ] +

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DataStoreRenderConfig

Describes the DataStore configuration for an API for a code generation job.

## Contents

The members of this exception structure are context-dependent.

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ExchangeCodeForTokenRequestBody

Describes the configuration of a request to exchange an access code for a token.

## Contents

### code

The access code to send in the request.

Type: String

Required: Yes

### redirectUri

The location of the application that will receive the access code.

Type: String

Required: Yes

### clientId

The ID of the client to request the token from.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldConfig

Describes the configuration information for a field in a table.

## Contents

### excluded

Specifies whether to hide a field.

Type: Boolean

Required: No

### inputType

Describes the configuration for the default input value to display for a field.

Type: [FieldInputConfig](#) object

Required: No

### label

The label for the field.

Type: String

Required: No

### position

Specifies the field position.

Type: [FieldPosition](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### validations

The validations to perform on the value in the field.

Type: Array of [FieldValidationConfiguration](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldInputConfig

Describes the configuration for the default input values to display for a field.

## Contents

### type

The input type for the field.

Type: String

Required: Yes

### defaultChecked

Specifies whether a field has a default value.

Type: Boolean

Required: No

### defaultCountryCode

The default country code for a phone number.

Type: String

Required: No

### defaultValue

The default value for the field.

Type: String

Required: No

### descriptiveText

The text to display to describe the field.

Type: String

Required: No

## fileUploaderConfig

The configuration for the file uploader field.

Type: [FileUploaderFieldConfig](#) object

Required: No

## isArray

Specifies whether to render the field as an array. This property is ignored if the `dataSourceType` for the form is a Data Store.

Type: Boolean

Required: No

## maxValue

The maximum value to display for the field.

Type: Float

Required: No

## minValue

The minimum value to display for the field.

Type: Float

Required: No

## name

The name of the field.

Type: String

Required: No

## placeholder

The text to display as a placeholder for the field.

Type: String

Required: No

### **readOnly**

Specifies a read only field.

Type: Boolean

Required: No

### **required**

Specifies a field that requires input.

Type: Boolean

Required: No

### **step**

The stepping increment for a numeric value in a field.

Type: Float

Required: No

### **value**

The value for the field.

Type: String

Required: No

### **valueMappings**

The information to use to customize the input fields with data at runtime.

Type: [ValueMappings](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldPosition

Describes the field position.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **below**

The field position is below the field specified by the string.

Type: String

Required: No

### **fixed**

The field position is fixed and doesn't change in relation to other fields.

Type: String

Valid Values: `first`

Required: No

### **rightOf**

The field position is to the right of the field specified by the string.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldValidationConfiguration

Describes the validation configuration for a field.

## Contents

### type

The validation to perform on an object type.

Type: String

Required: Yes

### numValues

The validation to perform on a number value.

Type: Array of integers

Required: No

### strValues

The validation to perform on a string value.

Type: Array of strings

Required: No

### validationMessage

The validation message to display.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FileUploaderFieldConfig

Describes the configuration for the file uploader field.

## Contents

### acceptedFileTypes

The file types that are allowed to be uploaded by the file uploader. Provide this information in an array of strings specifying the valid file extensions.

Type: Array of strings

Required: Yes

### accessLevel

The access level to assign to the uploaded files in the Amazon S3 bucket where they are stored. The valid values for this property are `private`, `protected`, or `public`. For detailed information about the permissions associated with each access level, see [File access levels](#) in the *Amplify documentation*.

Type: String

Valid Values: `public` | `protected` | `private`

Required: Yes

### isResumable

Allows the file upload operation to be paused and resumed. The default value is `false`.

When `isResumable` is set to `true`, the file uploader uses a multipart upload to break the files into chunks before upload. The progress of the upload isn't continuous, because the file uploader uploads a chunk at a time.

Type: Boolean

Required: No

### maxFileCount

Specifies the maximum number of files that can be selected to upload. The default value is an unlimited number of files.

Type: Integer

Required: No

### **maxSize**

The maximum file size in bytes that the file uploader will accept. The default value is an unlimited file size.

Type: Integer

Required: No

### **showThumbnails**

Specifies whether to display or hide the image preview after selecting a file for upload. The default value is `true` to display the image preview.

Type: Boolean

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Form

Contains the configuration settings for a Form user interface (UI) element for an Amplify app. A form is a component you can add to your project by specifying a data source as the default configuration for the form.

## Contents

### appId

The unique ID of the Amplify app associated with the form.

Type: String

Required: Yes

### dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

Required: Yes

### environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

### fields

Stores the information about the form's fields.

Type: String to [FieldConfig](#) object map

Required: Yes

### formActionType

The operation to perform on the specified form.

Type: String

Valid Values: create | update

Required: Yes

## id

The unique ID of the form.

Type: String

Required: Yes

## name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## schemaVersion

The schema version of the form when it was imported.

Type: String

Required: Yes

## sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to [SectionalElement](#) object map

Required: Yes

## style

Stores the configuration for the form's style.

Type: [FormStyle](#) object

Required: Yes

## cta

Stores the call to action configuration for the form.

Type: [FormCTA](#) object

Required: No

### **labelDecorator**

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: `required` | `optional` | `none`

Required: No

### **tags**

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+ -=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormBindingElement

Describes how to bind a component property to form data.

## Contents

### element

The name of the component to retrieve a value from.

Type: String

Required: Yes

### property

The property to retrieve a value from.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormButton

Describes the configuration for a button UI element that is a part of a form.

## Contents

### children

Describes the button's properties.

Type: String

Required: No

### excluded

Specifies whether the button is visible on the form.

Type: Boolean

Required: No

### position

The position of the button.

Type: [FieldPosition](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormCTA

Describes the call to action button configuration for the form.

## Contents

### cancel

Displays a cancel button.

Type: [FormButton](#) object

Required: No

### clear

Displays a clear button.

Type: [FormButton](#) object

Required: No

### position

The position of the button.

Type: String

Valid Values: top | bottom | top\_and\_bottom

Required: No

### submit

Displays a submit button.

Type: [FormButton](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormDataTypeConfig

Describes the data type configuration for the data source associated with a form.

## Contents

### dataSourceType

The data source type, either an Amplify DataStore model or a custom data type.

Type: String

Valid Values: DataStore | Custom

Required: Yes

### dataTypeName

The unique name of the data type you are using as the data source for the form.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormInputBindingPropertiesValue

Represents the data binding configuration for a form's input fields at runtime. You can use `FormInputBindingPropertiesValue` to add exposed properties to a form to allow different values to be entered when a form is reused in different places in an app.

## Contents

### `bindingProperties`

Describes the properties to customize with data at runtime.

Type: [FormInputBindingPropertiesValueProperties](#) object

Required: No

### `type`

The property type.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormInputBindingPropertiesValueProperties

Represents the data binding configuration for a specific property using data stored in AWS. For AWS connected properties, you can bind a property to data stored in an Amplify DataStore model.

## Contents

### model

An Amplify DataStore model.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormInputValueProperty

Describes the configuration for an input field on a form. Use `FormInputValueProperty` to specify the values to render or bind by default.

## Contents

### bindingProperties

The information to bind fields to data at runtime.

Type: [FormInputValuePropertyBindingProperties](#) object

Required: No

### concat

A list of form properties to concatenate to create the value to assign to this field property.

Type: Array of [FormInputValueProperty](#) objects

Required: No

### value

The value to assign to the input field.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormInputValuePropertyBindingProperties

Associates a form property to a binding property. This enables exposed properties on the top level form to propagate data to the form's property values.

## Contents

### property

The form property to bind to the data field.

Type: String

Required: Yes

### field

The data field to bind the property to.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormStyle

Describes the configuration for the form's style.

## Contents

### horizontalGap

The spacing for the horizontal gap.

Type: [FormStyleConfig](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### outerPadding

The size of the outer padding for the form.

Type: [FormStyleConfig](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### verticalGap

The spacing for the vertical gap.

Type: [FormStyleConfig](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# FormStyleConfig

Describes the configuration settings for the form's style properties.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### tokenReference

A reference to a design token to use to bind the form's style properties to an existing theme.

Type: String

Required: No

### value

The value of the style setting.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormSummary

Describes the basic information about a form.

## Contents

### appId

The unique ID for the app associated with the form summary.

Type: String

Required: Yes

### dataType

The form's data source type.

Type: [FormDataTypeConfig](#) object

Required: Yes

### environmentName

The name of the backend environment that is part of the Amplify app.

Type: String

Required: Yes

### formActionType

The type of operation to perform on the form.

Type: String

Valid Values: create | update

Required: Yes

### id

The ID of the form.

Type: String

Required: Yes

## **name**

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GraphQLRenderConfig

Describes the GraphQL configuration for an API for a code generation job.

## Contents

### **fragmentsFilePath**

The path to the GraphQL fragments file, relative to the component output directory.

Type: String

Required: Yes

### **mutationsFilePath**

The path to the GraphQL mutations file, relative to the component output directory.

Type: String

Required: Yes

### **queriesFilePath**

The path to the GraphQL queries file, relative to the component output directory.

Type: String

Required: Yes

### **subscriptionsFilePath**

The path to the GraphQL subscriptions file, relative to the component output directory.

Type: String

Required: Yes

### **typesFilePath**

The path to the GraphQL types file, relative to the component output directory.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MutationActionSetStateParameter

Represents the state configuration when an action modifies a property of another element within the same component.

## Contents

### componentName

The name of the component that is being modified.

Type: String

Required: Yes

### property

The name of the component property to apply the state configuration to.

Type: String

Required: Yes

### set

The state configuration to assign to the property.

Type: [ComponentProperty](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# NoApiRenderConfig

Describes the configuration for an application with no API being used.

## Contents

The members of this exception structure are context-dependent.

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Predicate

Stores information for generating Amplify DataStore queries. Use a Predicate to retrieve a subset of the data in a collection.

## Contents

### and

A list of predicates to combine logically.

Type: Array of [Predicate](#) objects

Required: No

### field

The field to query.

Type: String

Required: No

### operand

The value to use when performing the evaluation.

Type: String

Required: No

### operandType

The type of value to use when performing the evaluation.

Type: String

Pattern: `boolean|string|number`

Required: No

### operator

The operator to use to perform the evaluation.

Type: String

Required: No

**or**

A list of predicates to combine logically.

Type: Array of [Predicate](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PutMetadataFlagBody

Stores the metadata information about a feature on a form.

## Contents

### newValue

The new information to store.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReactStartCodegenJobData

Describes the code generation job configuration for a React project.

## Contents

### apiConfiguration

The API configuration for the code generation job.

Type: [ApiConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### dependencies

Lists the dependency packages that may be required for the project code to run.

Type: String to string map

Required: No

### inlineSourceMap

Specifies whether the code generation job should render inline source maps.

Type: Boolean

Required: No

### module

The JavaScript module type.

Type: String

Valid Values: `es2020` | `esnext`

Required: No

### renderTypeDeclarations

Specifies whether the code generation job should render type declaration files.

Type: Boolean

Required: No

### **script**

The file type to use for a JavaScript project.

Type: String

Valid Values: `jsx` | `tsx` | `js`

Required: No

### **target**

The ECMAScript specification to use.

Type: String

Valid Values: `es2015` | `es2020`

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RefreshTokenRequestBody

Describes a refresh token.

## Contents

### token

The token to use to refresh a previously issued access token that might have expired.

Type: String

Required: Yes

### clientId

The ID of the client to request the token from.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SectionalElement

Stores the configuration information for a visual helper element for a form. A sectional element can be a header, a text block, or a divider. These elements are static and not associated with any data.

## Contents

### type

The type of sectional element. Valid values are `Heading`, `Text`, and `Divider`.

Type: String

Required: Yes

### excluded

Excludes a sectional element that was generated by default for a specified data model.

Type: Boolean

Required: No

### level

Specifies the size of the font for a `Heading` sectional element. Valid values are 1 | 2 | 3 | 4 | 5 | 6.

Type: Integer

Required: No

### orientation

Specifies the orientation for a `Divider` sectional element. Valid values are `horizontal` or `vertical`.

Type: String

Required: No

### position

Specifies the position of the text in a field for a `Text` sectional element.

Type: [FieldPosition](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## text

The text for a Text sectional element.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SortProperty

Describes how to sort the data that you bind to a component.

## Contents

### direction

The direction of the sort, either ascending or descending.

Type: String

Valid Values: ASC | DESC

Required: Yes

### field

The field to perform the sort on.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StartCodegenJobData

The code generation job resource configuration.

## Contents

### renderConfig

The code generation configuration for the codegen job.

Type: [CodegenJobRenderConfig](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

Required: No

### features

The feature flags for a code generation job.

Type: [CodegenFeatureFlags](#) object

Required: No

### genericDataSchema

The data schema to use for a code generation job.

Type: [CodegenJobGenericDataSchema](#) object

Required: No

### tags

One or more key-value pairs to use when tagging the code generation job data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Theme

A theme is a collection of style settings that apply globally to the components associated with an Amplify application.

## Contents

### **appId**

The unique ID for the Amplify app associated with the theme.

Type: String

Required: Yes

### **createdAt**

The time that the theme was created.

Type: Timestamp

Required: Yes

### **environmentName**

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

### **id**

The ID for the theme.

Type: String

Required: Yes

### **name**

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

### **values**

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

Required: Yes

### **modifiedAt**

The time that the theme was modified.

Type: Timestamp

Required: No

### **overrides**

Describes the properties that can be overridden to customize a theme.

Type: Array of [ThemeValues](#) objects

Required: No

### **tags**

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+ -=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ThemeSummary

Describes the basic information about a theme.

## Contents

### **appId**

The unique ID for the app associated with the theme summary.

Type: String

Required: Yes

### **environmentName**

The name of the backend environment that is part of the Amplify app.

Type: String

Required: Yes

### **id**

The ID of the theme.

Type: String

Required: Yes

### **name**

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ThemeValue

Describes the configuration of a theme's properties.

## Contents

### children

A list of key-value pairs that define the theme's properties.

Type: Array of [ThemeValues](#) objects

Required: No

### value

The value of a theme property.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ThemeValues

A key-value pair that defines a property of a theme.

## Contents

### key

The name of the property.

Type: String

Required: No

### value

The value of the property.

Type: [ThemeValue](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# UpdateComponentData

Updates and saves all of the information about a component, based on component ID.

## Contents

### bindingProperties

The data binding information for the component's properties.

Type: String to [ComponentBindingPropertiesValue](#) object map

Required: No

### children

The components that are instances of the main component.

Type: Array of [ComponentChild](#) objects

Required: No

### collectionProperties

The configuration for binding a component's properties to a data model. Use this for a collection component.

Type: String to [ComponentDataConfiguration](#) object map

Required: No

### componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

## **id**

The unique ID of the component to update.

Type: String

Required: No

## **name**

The name of the component to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

## **overrides**

Describes the properties that can be overridden to customize the component.

Type: String to string to string map map

Required: No

## **properties**

Describes the component's properties.

Type: String to [ComponentProperty](#) object map

Required: No

## **schemaVersion**

The schema version of the component when it was imported.

Type: String

Required: No

## **sourceId**

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

### **variants**

A list of the unique variants of the main component being updated.

Type: Array of [ComponentVariant](#) objects

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# UpdateFormData

Updates and saves all of the information about a form, based on form ID.

## Contents

### cta

The FormCTA object that stores the call to action configuration for the form.

Type: [FormCTA](#) object

Required: No

### dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

Required: No

### fields

The configuration information for the form's fields.

Type: String to [FieldConfig](#) object map

Required: No

### formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: create | update

Required: No

### labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

Required: No

### **name**

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### **schemaVersion**

The schema version of the form.

Type: String

Required: No

### **sectionalElements**

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to [SectionalElement](#) object map

Required: No

### **style**

The configuration for the form's style.

Type: [FormStyle](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# UpdateThemeData

Saves the data binding information for a theme.

## Contents

### values

A list of key-value pairs that define the theme's properties.

Type: Array of [ThemeValues](#) objects

Required: Yes

### id

The unique ID of the theme to update.

Type: String

Required: No

### name

The name of the theme to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

### overrides

Describes the properties that can be overridden to customize the theme.

Type: Array of [ThemeValues](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ValueMapping

Associates a complex object with a display value. Use `ValueMapping` to store how to represent complex objects when they are displayed.

## Contents

### value

The complex object.

Type: [FormInputValueProperty](#) object

Required: Yes

### displayValue

The value to display for the complex object.

Type: [FormInputValueProperty](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ValueMappings

Represents the data binding configuration for a value map.

## Contents

### values

The value and display value pairs.

Type: Array of [ValueMapping](#) objects

Required: Yes

### bindingProperties

The information to bind fields to data at runtime.

Type: String to [FormInputBindingPropertiesValue](#) object map

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

## X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

## Required: Conditional

# Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

## **IncompleteSignature**

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

## **InternalFailure**

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

## **MalformedHttpRequestException**

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestAbortedException**

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

**RequestEntityTooLargeException**

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

**RequestTimeoutException**

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

### **UnknownOperationException**

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

### **UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

### **ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400