



Architecture Diagrams

# AWS Verified Access Request Verification Flow



# AWS Verified Access Request Verification Flow: Architecture Diagrams

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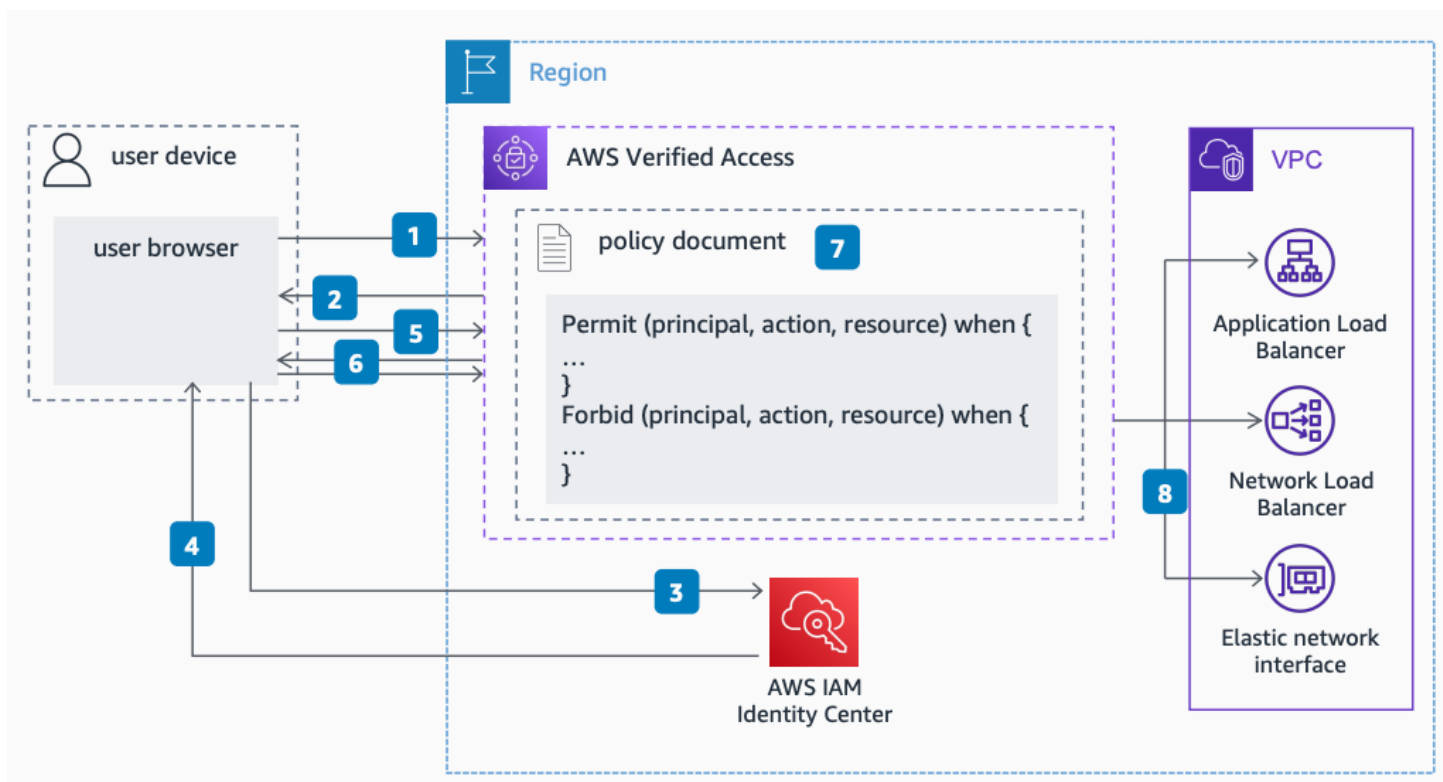
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# With IAM Identity Center - Initial Request

Publication date: **February 22, 2023** ([Diagram history](#))

This flow shows how AWS Verified Access handles an initial request that does not have an identity cookie. AWS Verified Access redirects the user to [IAM Identity Center](#) to collect the user identity before validating the request against the application policy.

## AWS Verified Access with IAM Identity Center - initial request flow



The following steps describe the request verification flow:

1. The initial request targets the application domain hosted on an AWS Verified Access endpoint. This request does not have an identity cookie.
2. AWS Verified Access redirects the request to the identity provider, IAM Identity Center, to collect the user identity.
3. The browser redirects to the IAM Identity Center URL. The user completes the sign-in process.

4. IAM Identity Center redirects the user to the application domain to validate the identity token.
5. The browser sends the IAM Identity Center token to the application domain endpoint. AWS Verified Access uses it to set the user identity cookie.
6. AWS Verified Access redirects the user with the identity cookie to the original URI.
7. AWS Verified Access receives the request with the user identity cookie. For each request, it validates the user request against the application policy using the user identity.
8. AWS Verified Access proxies validated requests to application endpoints in the customer Amazon VPC.

## Further reading

For additional information, see the following resources:

- [AWS Architecture Icons](#)
- [AWS Architecture Center](#)
- [AWS Well-Architected](#)

## Diagram history

To be notified about updates to this reference architecture diagram, subscribe to the RSS feed.

| Change                              | Description                                     | Date              |
|-------------------------------------|-------------------------------------------------|-------------------|
| <a href="#">Initial publication</a> | Reference architecture diagram first published. | February 22, 2023 |
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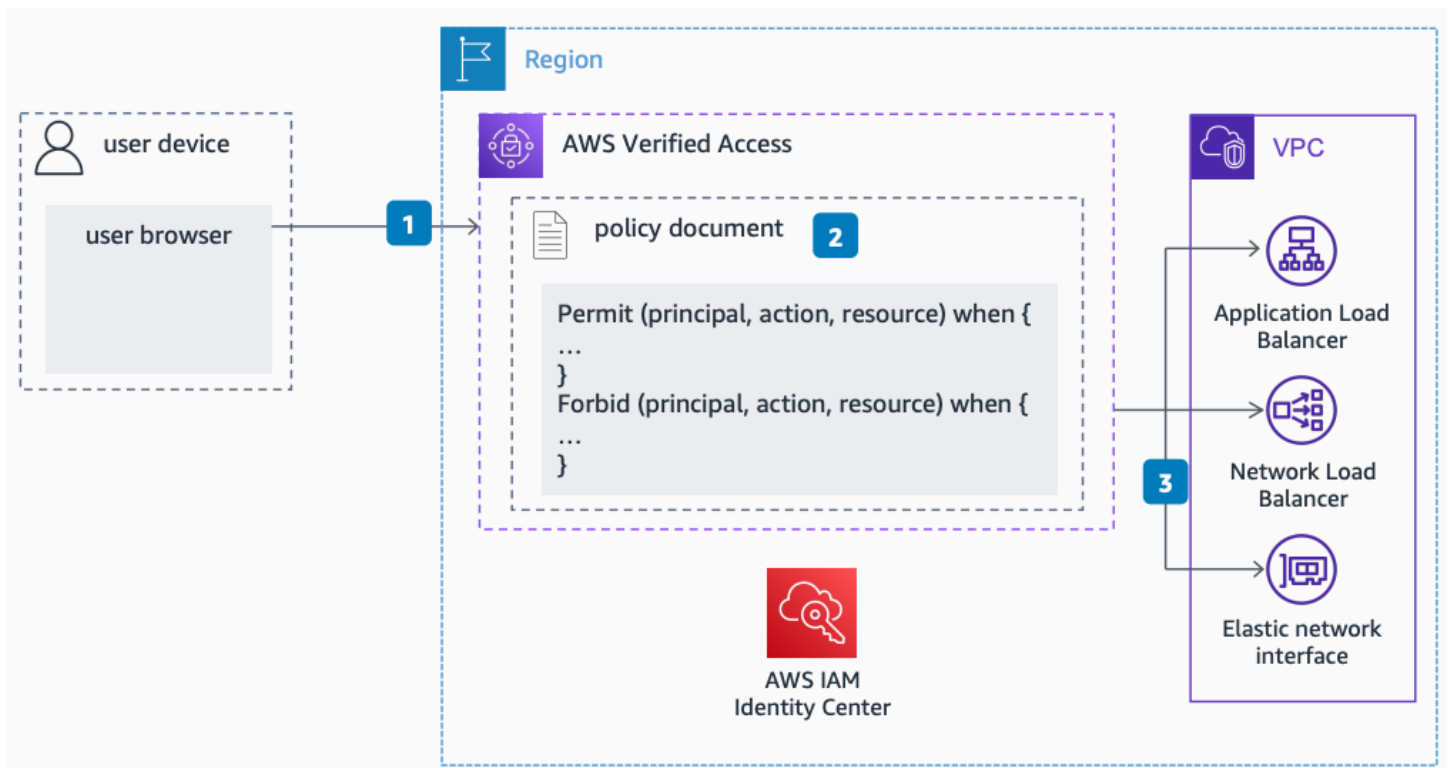
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# With IAM Identity Center - After Initial Request

Publication date: **February 22, 2023** ([Diagram history](#))

This flow shows how AWS Verified Access handles subsequent requests after the user has a valid identity cookie. The request skips the IAM Identity Center authentication step and proceeds directly to policy validation.

## AWS Verified Access with IAM Identity Center - subsequent request flow



The following steps describe the request verification flow:

1. The request targets the application domain hosted on an AWS Verified Access endpoint. This request includes a user identity cookie.
2. AWS Verified Access validates the user request against the application policy using the user identity.
3. AWS Verified Access proxies validated requests to application endpoints in the customer Amazon VPC.

**Note**

The identity cookie has a lifetime associated with it. When that lifetime expires, the user must re-authenticate with IAM Identity Center.

## Further reading

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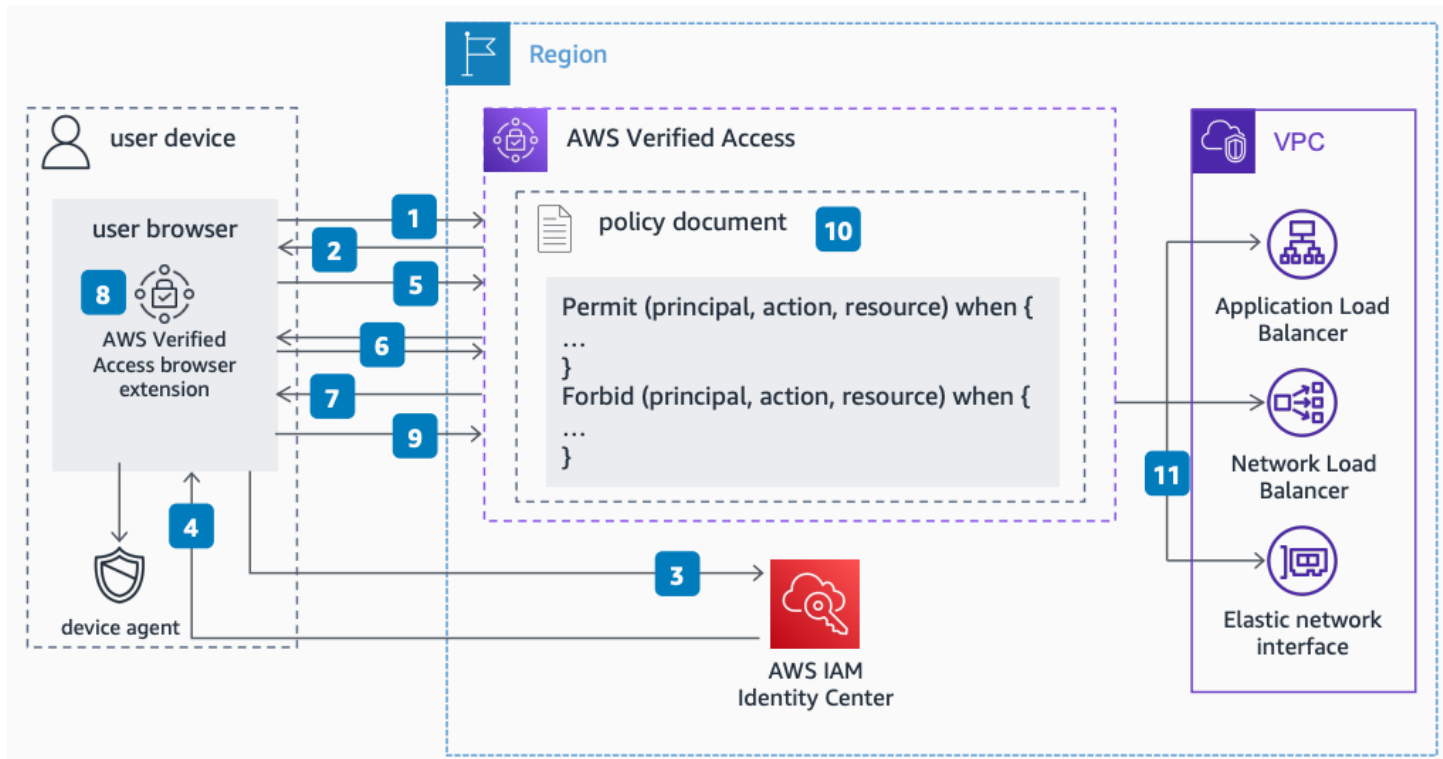
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# With IAM Identity Center and Device Trust Provider - Initial Request

Publication date: February 22, 2023 ([Diagram history](#))

This flow shows how AWS Verified Access handles an initial request when both [IAM Identity Center](#) and a device trust provider are configured. The browser extension detects redirects and provides device information cookies for combined identity and device posture validation.

## AWS Verified Access with IAM Identity Center and device trust - initial request flow



The following steps describe the request verification flow:

1. Steps 1 through 5 are the same as the IAM Identity Center initial request flow.
2. The browser extension detects the 302 redirect but does not identify the application domain as an AWS Verified Access domain. No device information cookie is added.

3. AWS Verified Access expects device information but does not receive it. It redirects the user to the device validation domain. AWS Verified Access repeats the authentication steps, but IAM Identity Center bypasses sign-in because cookies from the previous sign-in exist.
4. The device validation domain sends a 302 redirect. This tells the browser extension to pass the device information cookie to the application domain.
5. The browser extension extracts the application domain from the redirect and adds it to the cache of trusted AWS Verified Access domains. It sets the device information cookie on the application domain.
6. The browser extension allows the redirect to continue.
7. AWS Verified Access receives the request with the user identity cookie and device information cookie. For each request, it validates the user request against the policy using both the user identity and device posture.
8. AWS Verified Access proxies validated requests to application endpoints in the customer Amazon VPC.

#### Note

The local device agent continuously gathers device posture information. The browser extension transmits up-to-date information for each request to an AWS Verified Access endpoint.

## Further reading

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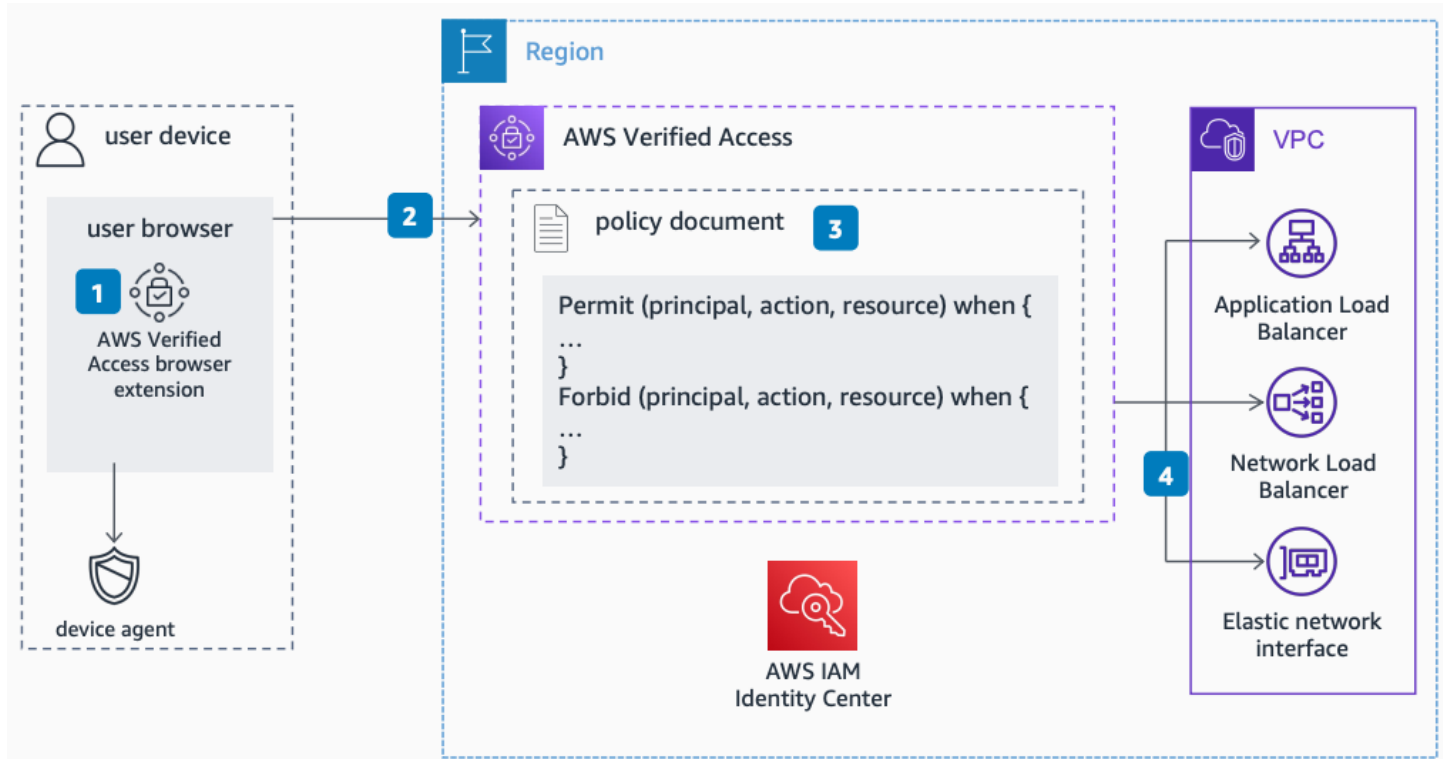
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# With IAM Identity Center and Device Trust Provider - After Initial Request

Publication date: February 22, 2023 ([Diagram history](#))

This flow shows how AWS Verified Access handles subsequent requests when the application domain is already in the browser extension's trusted domain list. The browser extension automatically includes the device information cookie with each request.

## AWS Verified Access with IAM Identity Center and device trust - subsequent request flow



The following steps describe the request verification flow:

1. The application domain is in the browser extension's allow list. The browser extension sets the device information cookie.
2. The user sends the initial request to the AWS Verified Access endpoint. The identity cookie and device information cookie are included with the request to the application domain.

3. AWS Verified Access receives the request with the user identity cookie and device information cookie. For each request, it validates the user request against the policy using both the user identity and device posture.
4. AWS Verified Access proxies validated requests to application endpoints in the customer Amazon VPC.

#### Note

The identity cookie has a lifetime associated with it. When that lifetime expires, the user must re-authenticate with IAM Identity Center. The local device agent continuously gathers device posture information for each request.

## Further reading

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