

Tools for migrating to the AWS Cloud

# **AWS Prescriptive Guidance**



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### AWS Prescriptive Guidance: Tools for migrating to the AWS Cloud

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# Tools for migrating to the AWS Cloud

#### Amazon Web Services

In a rapidly evolving digital landscape, organizations are increasingly turning to the AWS Cloud to achieve greater agility, scalability, and cost-effectiveness. To facilitate this transition, AWS and AWS Partners offer a comprehensive suite of tools and services designed to simplify and accelerate every phase of the cloud migration journey. From initial discovery and planning to the actual movement of applications and data, these purpose-built tools help you minimize risk, reduce costs, and maintain business continuity throughout the migration.

This guide describes tools for four critical aspects of any cloud migration: discovery and planning, business case analysis, application mobility, and data mobility. By using these tools, you can systematically discover and assess your IT assets, build compelling business cases based on precise TCO analyses, and efficiently and securely move applications and data to AWS. Whether you're planning to rehost, refactor, or modernize your applications, these tools provide the automation and guidance needed to execute your migration strategy successfully:

- <u>Discovery</u>, <u>planning</u>, <u>and recommendation</u> Discover IT assets across your application portfolio, and identify dependencies and requirements.
- <u>Business case analysis</u> Use total cost of ownership (TCO) analysis to determine target resource types and sizes for running workloads on AWS with the lowest cost possible.
- <u>Application mobility</u> Capture resource information about the host server, configuration, storage, network state, application language, and frameworks. Then provision, configure, rehost, refactor, and automatically convert application code based on your migration and modernization approach.
- Data mobility Transfer data and databases from multiple sources into target AWS resources.

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# Discovery, planning, and recommendation migration tools

When planning a migration to the AWS Cloud, you can use AWS services and AWS Partner tools to accelerate the discovery, assessment, and planning process. These services can help you gather detailed information about your on-premises infrastructure, application dependencies, and utilization patterns. AWS Application Discovery Service and Migration Evaluator are AWS services that provide discovery capabilities at no charge. Many AWS Partners offer tools that provide additional discovery features that can meet the specific needs of your use case.

This section is intended to help you choose the most appropriate tool for your situation. If specific features or capabilities are critical to your use case, you can use the filter categories and attributes available on <a href="Discovery">Discovery</a>, <a href="Planning">Planning</a>, and <a href="Recommendation migration tools">Recommendation migration tools</a> in order to view only the tools that match your criteria.

# This section describes the following discovery, planning, and recommendation tools and their capabilities:

- AppDynamics
- AveriSource Analyze
- AWS Application Discovery Service
- BMC Helix Discovery
- CAST Highlight
- CAST Imaging
- Cloudamize
- CloudSphere Cyber Asset Management Platform
- Corent SurPaas MaaS
- Datadog
- Device42
- Dynatrace
- Flexera Cloud Migration and Modernization
- Matilda Discover
- Migration Evaluator
- modelizeIT

- New Relic One
- **Tidal Accelerator**
- Turbonomic
- vFunction
- Virtana

## **AppDynamics**

Last update: May 15, 2023



#### Notice

AWS Partner product descriptions and reported qualifications, including compliance, are provided by the AWS Partner and are not verified by AWS. For more information about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

#### **Product overview**

Category	Product capabilities
Product website	Cisco AppDynamics
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Applicati on Monitoring and Orchestration
AWS Marketplace  Link to subscribe or download	Not available
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul><li>SaaS on AWS (vendor VPC)</li><li>Servers deployed on AWS (customer VPC)</li></ul>

**AppDynamics** 

Category	Product capabilities
	<ul> <li>Servers deployed on premises in customer environment</li> </ul>
Compliance	<ul> <li>Federal Risk and Authorization Management Program (FedRAMP)</li> <li>General Data Protection Regulation (GDPR)</li> <li>Payment card industry (PCI)</li> </ul>
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method	Agent-based
The ability to support one or more of the following discovery methods:	
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	

Category	Product capabilities
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul><li>Servers and operating systems</li><li>Databases</li><li>Software processes</li><li>Containers</li></ul>
Operating systems discoverable	<ul><li>Linux</li><li>Windows</li><li>Solaris</li></ul>
Other resources discoverable	No additional information
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	Physical and virtual servers and their profiles
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Network utilization data collection</li> </ul>

#### **Category**

#### **Application dependency level**

The ability to discover application dependency and export dependency data:

- Application and server dependency Individual servers and dependencies that form an application
- Application and software process dependency – Individual software processes, configurations, and dependencies that form an application
- Application and code dependency Individual programming code, configura tions, and dependencies that form an application

#### **Product capabilities**

- · Application and server dependency
- Application and software process dependency
- Application and code dependency

#### Visualization level

The ability to provide multiple-level visualization of applications:

- All resource and applications An entire on-premises or source environment with all resources and applications
- Single application A single application across its resources, end to end
- Single application and its software processes – Individual software processes and dependencies that form an applicati on
- Single application and its programming code – Individual programming code and dependencies that form an application

- All resource and applications
- Single application
- Single application and its software processes
- Single application and its programming code

Category	Product capabilities
Database details discovery, source database system	<ul> <li>Database engine</li> <li>Database editions</li> <li>Schemas</li> <li>Database size</li> <li>Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
Storage details discovery  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available
File system details discovery	Not available
Software details discovery	Not available
Container details discovery	<ul> <li>Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>Azure Kubernetes Service</li> <li>Docker</li> <li>Google Kubernetes Engine</li> <li>Kubernetes</li> <li>Red Hat OpenShift</li> <li>Rancher</li> </ul>
License discovery	Not available

Category	Product capabilities
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Not available
The ability to export the discovered data into a usable format, such as CSV or JSON	Not available

# **AveriSource Analyze**

Last update: October 22, 2024



#### Notice

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#### **Product overview**

Category	Product capabilities
Product website	AveriSource Analyze
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation

AveriSource Analyze

Category	Product capabilities
AWS Marketplace  Link to subscribe or download	AveriSource Platform on AWS Marketplace
Link to subscribe or download	
Tool deployment model  Product can be SaaS-based or customer- deployed	Servers deployed on premises in customer environment
Compliance	508 Compliance
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method	• Agent-based
The ability to support one or more of the following discovery methods:	Login-based
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	

Category	Product capabilities
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	Not available
Operating systems discoverable	Not available
Other resources discoverable	Application resources through source code
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	Not available
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	Not available

on

Single application and its programming

code - Individual programming code and dependencies that form an application

#### Tools for migrating to the AWS Cloud AWS Prescriptive Guidance **Product capabilities** Category **Application dependency level** Application and software process dependency The ability to discover application Application and code dependency dependency and export dependency data: Application and server dependency – Individual servers and dependencies that form an application Application and software process dependency - Individual software processes, configurations, and dependencies that form an application Application and code dependency – Individual programming code, configura tions, and dependencies that form an application Visualization level All resource and applications Single application The ability to provide multiple-level Single application and its software visualization of applications: processes All resource and applications – An entire Single application and its programming on-premises or source environment with code all resources and applications • Single application – A single application across its resources, end to end Single application and its software processes – Individual software processes and dependencies that form an applicati

Category	Product capabilities
Database details discovery, source database system	Schemas
Database details discovery, database type	<ul> <li>ADABAS</li> <li>IBM Db2</li> <li>IBM Information Management System (IMS)</li> <li>Integrated Database Management System (IDMS)</li> <li>Virtual Storage Access Method (VSAM)</li> <li>Sequential</li> </ul>
Storage details discovery  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Not available
File system details discovery	Available
Software details discovery, programming languages	COBOL, RPG, Assembler, JCL, BMS, MFS, CL, DDS, PL/I, Natural, Model 204, ObjectSta r, Easytrieve, SAS. Total # of languages supported = 17.
Software details discovery, frameworks or libraries	IBM WebSphere MQ

Category	Product capabilities
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	IBM platform utilities and third-party products: ~100+ total discoverable
Container details discovery	Not available
License discovery	Not available
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available
<ul> <li>Code analysis</li> <li>The ability to support static and dynamic code analysis, optionally identifying:</li> <li>Deprecated code</li> <li>Security concerns in code</li> <li>Resilience concerns in code</li> </ul>	<ul> <li>Deprecated code</li> <li>Other: data access, code flow, business rules, variable tracing, dependencies, flowcharts</li> </ul>
Pipeline integration  The ability to integrate with CI/CD pipelines for continuous code analysis	Not available

Category	Product capabilities
Service discovery, mapping  The ability to automate service discovery mapping, which identifies the underlyin g services, dependencies, and communication patterns (including to external resources, such as SaaS providers)	Not available
Service discovery, recommendations  The ability to suggest optimizations for discovered services	Not available
Monolith decomposition, identification  The ability to identify candidate microserv ices, given classes, objects, functions, and stored procedures	Available
Monolith decomposition, impact analysis  The ability to analyze the impact of the decomposition process	Available
Open source compliance analysis, identific ation  The ability to identify non-compliant open source solutions within an application	Not available
Open source compliance analysis, recommendations  The ability to suggest compliant alternati ves or remediation steps	Not available

Category	Product capabilities
Framework migration, standard  The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+	Not available
Framework migration, legacy  The ability to migrate legacy framework s, databases, or data formats during framework migrations	Available
Environmental impact analysis  The ability to provide guidance about the sustainability of applications, such as before and after a migration	Not available
Cost of change analysis, effort  The ability to estimate the effort required to modernize an application	Available
Cost of change analysis, architecture  The ability to estimate the target architect ure costs after modernizing an application	Not available
Predictive outcome analysis  The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful	Not available

Category	Product capabilities
Weighted analysis, preferences  The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost	Not available
Weighted analysis, organizational priorities  The ability to customize and adjust weights as organizational priorities change	Not available

# **AWS Application Discovery Service**

Last update: May 15, 2023

### **Product overview**

Category	Product capabilities
Product website	AWS Application Discovery Service
Tool deployment model	SaaS on AWS (vendor VPC)
Product can be SaaS-based or customer- deployed	Servers deployed on premises in customer environment
Compliance	Not available
Service model	Self-service with vendor support – Deploymen t, management, and maintenance can be done by customer or end-user with the option of vendor support

Category	Product capabilities
Pricing model	No charge

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
<ul> <li>Discovery method</li> <li>The ability to support one or more of the following discovery methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul> <li>Agentless</li> <li>Agent-based</li> <li>Login-based</li> </ul>
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul><li>Servers and operating systems</li><li>Databases</li><li>Software processes</li></ul>
Operating systems discoverable	<ul><li>Linux</li><li>Windows</li></ul>
Other resources discoverable	No additional information
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of	<ul> <li>Physical and virtual servers and their profiles</li> </ul>

Category	Product capabilities
CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> </ul>
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> <li>Network utilization data collection</li> </ul>
<ul> <li>Application dependency level</li> <li>The ability to discover application dependency and export dependency data:         <ul> <li>Application and server dependency – Individual servers and dependencies that form an application</li> <li>Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul> </li> </ul>	Application and server dependency

Category	Product capabilities
<ul> <li>Visualization level</li> <li>The ability to provide multiple-level visualization of applications:         <ul> <li>All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>Single application – A single application across its resources, end to end</li> <li>Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul> </li> </ul>	<ul> <li>All resource and applications</li> <li>Single application</li> </ul>
Database details discovery, source database system  Database details discovery, database type	<ul> <li>Database engine</li> <li>Database editions</li> <li>Schemas</li> <li>Database size</li> <li>Runtime metrics (for example, server memory usage, client connections, transacti ons, batch requests)</li> <li>Microsoft SQL Server</li> <li>MySQL</li> <li>Oracle</li> <li>PostgreSQL</li> </ul>
Storage details discovery, systems	Local storage

Category	Product capabilities
Storage details discovery, utilization	<ul> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak throughput (MB per second)</li> </ul>
File system details discovery	Not available
Software details discovery	Not available
Container details discovery	Not available
License discovery	Not available
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Not available
The ability to export the discovered data into a usable format, such as CSV or JSON	Available

# **BMC Helix Discovery**

Last update: May 15, 2023



#### Notice

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**BMC** Helix Discovery 20 about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

#### **Product overview**

Category	Product capabilities
Product website	BMC Helix Discovery
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace  Link to subscribe or download	BMC Helix on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer- deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	<ul> <li>General Data Protection Regulation (GDPR)</li> <li>Health Insurance Portability and Accountability Act (HIPAA)</li> <li>Payment card industry (PCI)</li> <li>System and Organization Controls (SOC)</li> </ul>
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> </ul>

Product overview 21

Category	Product capabilities
	<ul> <li>Self-service with vendor support –         Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support     </li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
<ul> <li>Discovery method</li> <li>The ability to support one or more of the following discovery methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul> <li>Agentless</li> <li>Login-based</li> </ul>
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Network devices</li> <li>Software processes</li> </ul>

Category	Product capabilities
	<ul><li>Containers</li><li>Mainframe</li></ul>
Operating systems discoverable	<ul> <li>Linux – CentOS, Debian GNU/Linux, Fedora Linux, Gentoo Linux, Oracle, Red Hat Enterprise Linux (RHEL), Scientific Linux, SUSE, Ubuntu</li> <li>Windows – Windows NT, Windows Server 2000 to 2019</li> <li>HP – HP-UX, OpenVMS, Tru64 UNIX</li> <li>IBM – IBM AIX, IBMi, Power HMC, VIO</li> <li>VMware – VMware ESX Server, VMware ESXi Server, VMware vCenter</li> <li>Other – FreeBSD, Novell NetWare, OpenBSD, Oracle VM Server, Solaris</li> </ul>
Other resources discoverable	<ul> <li>Hyper-converged infrastructure</li> <li>Load balancers</li> <li>Management controllers</li> <li>Software-defined networks</li> <li>Software-defined storage</li> </ul>
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> <li>Network devices and profiles</li> </ul>

Category	Product capabilities
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	Not available
<ul> <li>Application dependency level</li> <li>The ability to discover application dependency and export dependency data:         <ul> <li>Application and server dependency – Individual servers and dependencies that form an application</li> <li>Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul> </li> </ul>	<ul> <li>Application and server dependency</li> <li>Application and software process dependency</li> </ul>

Category	Product capabilities
<ul> <li>Visualization level</li> <li>The ability to provide multiple-level visualization of applications:         <ul> <li>All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>Single application – A single application across its resources, end to end</li> <li>Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul> </li> </ul>	<ul> <li>All resource and applications</li> <li>Single application and its software processes</li> </ul>
Database details discovery, source database system	<ul> <li>Database engine</li> <li>Database editions</li> <li>Schemas</li> <li>Database size</li> <li>Number of partitions</li> <li>Clustering and servers in the cluster</li> <li>Backups</li> <li>Failover configuration (active-active, active-standby)</li> </ul>
Storage details discovery, systems	Storage Area Network (SAN)

Category	Product capabilities
Storage details discovery, types  The ability to discover storage system types and access protocols	<ul> <li>File storage (for example, NFS or SMB)</li> <li>Block storage (for example, Fiber Channel or iSCSI)</li> <li>Object storage (for example, Atmos, Vantara, HTTP, or REST)</li> </ul>
Storage details discovery, capacity	Volume identifier and volume size (GB)
Storage details discovery, configuration	Relationships among disk, array, LUN, and VM
Storage details discovery, utilization	Not available
Storage details discovery, object metadata	Object type (for example, text file, image, database data)

Category	Product capabilities
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	<ul> <li>Cisco HyperFlex</li> <li>Dell Compellent, EMC Isilon, Dell EqualLogic</li> <li>EMC Celerra/VNX(NAS) and eNAS, EMC Data Domain, EMC RecoverPoint, EMC Unity, EMC VMAX, EMC VNXe 3200, EMC VPLEX, EMC XtremIO</li> <li>Fujitsu ETERNUS DS</li> <li>Hitachi HCP, Hitachi HDI, Hitachi HNAS, Hitachi VSP</li> <li>HPE 3PAR, HP P2000, HP P6000 (EVA), HP P9000/P9500, HPE XP7, HPE XP8</li> <li>Huawei Dorado (V3, V6), Huawei OceanStor (V3, V5, 9000)</li> <li>IBM DS6000, IBM DS8000, IBM FlashSystem, IBM SVC/Storwize, IBM XIV</li> <li>NetApp, NetApp E-Series, NetApp SolidFire</li> <li>Other – Nimble, Nutanix, Oracle ZFS, Pure FlashArray, VMware vSAN</li> </ul>
File system details discovery	<ul> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
Software details discovery, frameworks or libraries	Apache Tomcat, IBM WebSphere, Microsoft IIS, Oracle GlassFish, Oracle WebLogic, Oracle Application Server, PostgreSQL, Red Hat JBoss, Sybase, Teradata, and around 2,500 software instance types

Category	Product capabilities
Software details discovery, tools	BMC Remedy, BMC TrueSight, CA Spectrum, Chef, Dynatrace, Flexera, HP OpenView, IBM Tivoli, Microsoft SCCM, New Relic, and hundreds more
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Name, edition, and version
Container details discovery	<ul> <li>Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>Azure Kubernetes Service</li> <li>CRI-O</li> <li>Docker</li> <li>Google Kubernetes Engine</li> <li>Kubernetes</li> <li>Red Hat OpenShift</li> <li>Rocket</li> </ul>
License discovery	Not available
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
The ability to export the discovered data into a usable format, such as CSV or JSON	Available

# **CAST Highlight**

Last update: October 22, 2024



#### Notice

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#### **Product overview**

Category	Product capabilities
Product website	CAST Highlight
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace  Link to subscribe or download	CAST Highlight on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	SaaS-based
Compliance	<ul> <li>General Data Protection Regulation (GDPR)</li> <li>International Organization for Standardi zation (ISO) 27001, 27017, 27018, and 27701</li> </ul>

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Category	Product capabilities
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method	Agent-based
<ul> <li>The ability to support one or more of the following discovery methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	

Category	Product capabilities
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	Not available
Operating systems discoverable	Not available
Other resources discoverable	CAST Highlight scans application source code and discovers a broad scope of insights such as cloud maturity, cloud blockers for migration and modernization (from customer premises to AWS, from other cloud to AWS, for on AWS modernization), containerization blockers, three types of open source risks, green software insights, and more.
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	Not available
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	Not available

## **Product capabilities** Category **Application dependency level** Not available The ability to discover application dependency and export dependency data: Application and server dependency – Individual servers and dependencies that form an application Application and software process dependency - Individual software processes, configurations, and dependencies that form an application Application and code dependency – Individual programming code, configura tions, and dependencies that form an application Visualization level All resource and applications Single application and its programming The ability to provide multiple-level code visualization of applications: All resource and applications – An entire on-premises or source environment with all resources and applications • Single application – A single application across its resources, end to end Single application and its software processes – Individual software processes and dependencies that form an applicati on Single application and its programming code - Individual programming code and dependencies that form an application

Category	Product capabilities
Database details discovery, source database system	Not available
Storage details discovery  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Not available
File system details discovery	Not available
Software details discovery, programming languages	50+ languages, including C#, C++, Closure, COBOL, Go, Java, JavaScript, Kotlin, PHP, Python, Ruby, Scala, Swift, TypeScript, VB.NET. See <u>Technology Coverage</u> .
Software details discovery, frameworks or libraries	All the libraries and frameworks used by applications: defined in dependency files or through copy and pasting of public source code in public repositories
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Detection of proprietary or private component s listed in dependency files
Container details discovery	Not available

Category	Product capabilities
License discovery	Not available
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
The ability to export the discovered data into a usable format, such as CSV or JSON	Available
Code analysis  The ability to support static and dynamic code analysis, optionally identifying:  • Deprecated code  • Security concerns in code  • Resilience concerns in code	<ul> <li>Security concerns in code</li> <li>Resilience concerns in code</li> <li>Identification of cloud blockers and boosters, software health (resiliency, agility, elegance), software composition, three types of open source risks, use of proprieta ry components, software green insights. Recommendations of 5R disposition, migration and modernization waves, cloud or containerization blocker remediation and effort estimates, cloud-native services, open source risk remediation. All benchmarked with industry peers and with trends over time.</li> </ul>
Pipeline integration  The ability to integrate with CI/CD pipelines for continuous code analysis	Available

Category	Product capabilities
Service discovery, mapping  The ability to automate service discovery mapping, which identifies the underlyin g services, dependencies, and communication patterns (including to external resources, such as SaaS providers)	Available
Service discovery, recommendations  The ability to suggest optimizations for discovered services	Partial: to a certain level of detail (for example, only on API calls)
Monolith decomposition, identification  The ability to identify candidate microserv ices, given classes, objects, functions, and stored procedures	Not available
Monolith decomposition, impact analysis  The ability to analyze the impact of the decomposition process	Not available
Open source compliance analysis, identific ation  The ability to identify non-compliant open source solutions within an application	Available
Open source compliance analysis, recommendations  The ability to suggest compliant alternati ves or remediation steps	Available

Category	Product capabilities
The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+	Not available
Framework migration, legacy  The ability to migrate legacy framework s, databases, or data formats during framework migrations	Not available
Environmental impact analysis  The ability to provide guidance about the sustainability of applications, such as before and after a migration	Available
Cost of change analysis, effort  The ability to estimate the effort required to modernize an application	Available
Cost of change analysis, architecture  The ability to estimate the target architect ure costs after modernizing an application	Not available
Predictive outcome analysis  The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful	Available

Category	Product capabilities
Weighted analysis, preferences  The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost	Available
Weighted analysis, organizational priorities  The ability to customize and adjust weights as organizational priorities change	Available

## **CAST Imaging**

Last update: October 22, 2024



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## **Product overview**

Category	Product capabilities
Product website	CAST Imaging
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation

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Category	Product capabilities
AWS Marketplace	CAST Imaging on AWS Marketplace
Link to subscribe or download	
Tool deployment model  Product can be SaaS-based or customer- deployed	<ul> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> </ul>
Compliance	<ul> <li>General Data Protection Regulation (GDPR)</li> <li>International Organization for Standardi zation (ISO) 27001, 27017, 27018, and 27701</li> </ul>
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method	Agent-based
The ability to support one or more of the following discovery methods:	

Category	Product capabilities
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	Not available
Operating systems discoverable	Not available
Other resources discoverable	CAST Imaging scans source code, configura tion files, database scripts and other artifacts constituting a system of applications and databases to discover its architecture with its components, dependencies, end-to-end transaction flows and datagraphs, structura I flaws, security, reliability, performance efficiency, and maintainability. CAST Imaging also makes recommendations based on various modernization pathways.
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	Not available

Category	Product capabilities
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	Not available
<ul> <li>Application dependency level</li> <li>The ability to discover application dependency and export dependency data:         <ul> <li>Application and server dependency – Individual servers and dependencies that form an application</li> <li>Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul> </li> </ul>	Application and code dependency

Category	Product capabilities
<ul> <li>Visualization level</li> <li>The ability to provide multiple-level visualization of applications:</li> <li>All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>Single application – A single application across its resources, end to end</li> <li>Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	<ul> <li>All resource and applications</li> <li>Single application and its programming code</li> </ul>
Database details discovery, source database system	Not available
Database details discovery, database type	<ul> <li>MongoDB</li> <li>Redis</li> <li>CAST Imaging covers 12+ database types. See</li> <li>Coverage overview.</li> </ul>
Storage details discovery  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available

Category	Product capabilities
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Not available
File system details discovery	Not available
Software details discovery, programming languages	CAST Imaging covers 50+ programming languages. See <u>Coverage overview</u> .
Software details discovery, frameworks or libraries	CAST Imaging covers hundreds of frameworks. See <u>Coverage overview</u> .
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Not available
Container details discovery	Not available
License discovery	Not available
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

Category	Product capabilities
Code analysis  The ability to support static and dynamic code analysis, optionally identifying:  • Deprecated code  • Security concerns in code  • Resilience concerns in code	<ul> <li>Deprecated code</li> <li>Security concerns in code</li> <li>Resilience concerns in code</li> </ul> CAST Imaging automatically discovers the architecture of a system of applications and databases with its components, dependencies, end-to-end transaction flows and datagraphs, structural flaws, security, reliability, performan ce efficiency, and maintainability. CAST Imaging also makes recommendations based on various modernization paths.
Pipeline integration  The ability to integrate with CI/CD pipelines for continuous code analysis	Available
Service discovery, mapping  The ability to automate service discovery mapping, which identifies the underlyin g services, dependencies, and communica tion patterns (including to external resources, such as SaaS providers)	Available
Service discovery, recommendations  The ability to suggest optimizations for discovered services	Partial: to a certain level of detail (for example, only on API calls)
Monolith decomposition, identification  The ability to identify candidate microserv ices, given classes, objects, functions, and stored procedures	Available

Category	Product capabilities
Monolith decomposition, impact analysis  The ability to analyze the impact of the decomposition process	Available
Open source compliance analysis, identific ation  The ability to identify non-compliant open source solutions within an application	Available
Open source compliance analysis, recommendations  The ability to suggest compliant alternati ves or remediation steps	Not available
Framework migration, standard  The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+	Available; can report on compatibility and necessary changes
Framework migration, legacy  The ability to migrate legacy framework s, databases, or data formats during framework migrations	Available
Environmental impact analysis  The ability to provide guidance about the sustainability of applications, such as before and after a migration	Available

Category	Product capabilities
Cost of change analysis, effort  The ability to estimate the effort required to modernize an application	Available
Cost of change analysis, architecture  The ability to estimate the target architect ure costs after modernizing an application	Not available
Predictive outcome analysis  The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful	Available
Weighted analysis, preferences  The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost	Available
Weighted analysis, organizational priorities  The ability to customize and adjust weights as organizational priorities change	Available

# Cloudamize

Last update: May 15, 2023

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#### **Product overview**

Category	Product capabilities
Product website	Cloudamize
Product certifications  AWS Competency Program competencies and other certifications	<ul> <li>AWS Migration and Modernization –</li> <li>Business Case Analysis</li> <li>AWS Microsoft Workloads Competency</li> </ul>
AWS Marketplace  Link to subscribe or download	Cloudamize Assess and Plan on AWS  Marketplace
Tool deployment model  Product can be SaaS-based or customer- deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	<ul> <li>General Data Protection Regulation (GDPR)</li> <li>International Organization for Standardi zation (ISO) 27001</li> <li>System and Organization Controls 2 (SOC 2) Type II</li> </ul>

Product overview

Category	Product capabilities
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and</li> </ul>
	maintenance require professional services
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method  The ability to support one or more of the following discovery methods:  • Agentless – Uses protocols or interfaces	<ul><li>Agentless</li><li>Agent-based</li><li>Login-based</li></ul>
<ul> <li>such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	

Category	Product capabilities
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Network devices</li> <li>Software processes</li> <li>Containers</li> </ul>
Operating systems discoverable	<ul> <li>Linux – Amazon Linux, CentOS, Debian GNU/Linux, Fedora Linux, Oracle Linux, Red Hat Enterprise Linux (RHEL), SUSE, Ubuntu</li> <li>Windows</li> </ul>
Other resources discoverable	<ul> <li>Applications</li> <li>Application interdependencies</li> <li>Firewall rules</li> <li>Client app DNS</li> <li>IP addresses and DNS</li> <li>Machines details</li> <li>SQL license discovery</li> </ul>
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> </ul>

#### **Product capabilities Category** Resource utilization data collection • Physical and virtual server utilization data collection The ability to collect time-series utilization Attached storage utilization data collection data, such peak, average, median, standard Network utilization data collection deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month **Application dependency level** Application and server dependency Application and software process The ability to discover application dependency dependency and export dependency data: Application and code dependency Application and server dependency – Individual servers and dependencies that form an application Application and software process dependency - Individual software processes, configurations, and dependencies that form an application Application and code dependency – Individual programming code, configura

tions, and dependencies that form an

application

### **Product capabilities Category** Visualization level • All resource and applications Single application The ability to provide multiple-level • Single application and its software visualization of applications: processes • All resource and applications – An entire Single application and its programming on-premises or source environment with code all resources and applications • Single application – A single application across its resources, end to end • Single application and its software processes – Individual software processes and dependencies that form an applicati on Single application and its programming code - Individual programming code and dependencies that form an application Database details discovery, source database Database engine system Database editions • Schemas (if local admin access is available) Database size · Number of partitions Clustering and servers in the cluster Backups • Failover configuration (active-active, activestandby) • Runtime metrics (for example, server memory usage, client connections, transacti ons, batch requests)

Category	Product capabilities
Database details discovery, database type	<ul> <li>MariaDB</li> <li>Microsoft SQL Server</li> <li>MongoDB</li> <li>MySQL</li> <li>Oracle</li> <li>PostgreSQL</li> <li>Redis</li> <li>SQLite</li> </ul>
Storage details discovery, systems	<ul><li>Local storage</li><li>Storage Area Network (SAN)</li></ul>
Storage details discovery, types  The ability to discover storage system types and access protocols	<ul> <li>File storage (for example, NFS or SMB)</li> <li>Block storage (for example, Fiber Channel or iSCSI)</li> </ul>
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage pool name and size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
Storage details discovery, configuration	<ul> <li>Media types (for example, SSD, magnetic disks, tape)</li> <li>RAID levels (RAID 0, RAID 1,, RAID 6)</li> </ul>
Storage details discovery, utilization	<ul> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak throughput (MB per second)</li> <li>Mean disk latency (milliseconds)</li> <li>Peak disk latency (milliseconds)</li> </ul>

Category	Product capabilities
Storage details discovery, object metadata	<ul> <li>Object type (for example, text file, image, database data)</li> <li>Object size (MB)</li> <li>Object usage: last modified time</li> <li>Object access permissions</li> <li>Object encryption status</li> </ul>
Storage systems discoverable	No additional information
The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	
File system details discovery	<ul> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
Software details discovery, programming languages	C/C++, Java, .NET, NodeJS, Perl, Python, Ruby
Software details discovery, frameworks or libraries	Microsoft IIS, JAM, LAMP, MAMP, .NET, Spring Boot
Software details discovery, tools	Any software installed using OS-provided installation and packaging system mechanism
Software details discovery, ISV products	Name, edition, and version
The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	

Category	Product capabilities
Container details discovery	<ul><li>Docker</li><li>Kubernetes</li><li>Mesa</li></ul>
License discovery	<ul> <li>Microsoft – Hyper-V, Microsoft SQL Server, Windows</li> <li>Application software – Cloudamize discovers the application, vendor, and version, but not the license</li> </ul>
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## **CloudSphere Cyber Asset Management Platform**

Last update: May 15, 2023



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## **Product overview**

Category	Product capabilities
Product website	CloudSphere Cyber Asset Management Platform
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization Competenc y – Migration
AWS Marketplace  Link to subscribe or download	Cyber Asset Management (CAM) Platform on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	SaaS on AWS (vendor VPC)
Compliance	<ul> <li>General Data Protection Regulation (GDPR)</li> <li>System and Organization Controls 2 (SOC 2)</li> <li>Type II</li> </ul>
Service model	Self-service with vendor support – Deploymen t, management, and maintenance can be done by customer or end-user with the option of vendor support
Pricing model	Subscription

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# Discovery, planning, and recommendation capabilities

Category	Product capabilities
<ul> <li>Discovery method</li> <li>The ability to support one or more of the following discovery methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul> <li>Agentless – Windows</li> <li>Login-based – Linux or Unix</li> </ul>
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul><li>Servers and operating systems</li><li>Databases</li><li>Software processes</li><li>Containers</li></ul>
Operating systems discoverable	<ul> <li>Windows</li> <li>Linux – Amazon Linux, CentOS, Debian GNU/Linux, Fedora Linux, Oracle Linux, Red Hat Enterprise Linux (RHEL), SUSE</li> <li>Solaris</li> <li>IBM AIX</li> <li>HP-UX</li> </ul>
Other resources discoverable	<ul> <li>Applications</li> <li>Application interdependencies</li> <li>Microsoft SQL Server license discovery</li> <li>Machine details</li> <li>Software relationships</li> </ul>

Category	Product capabilities
	<ul> <li>Network dependencies</li> <li>Performance metrics</li> <li>IP addresses and DNS</li> <li>Clusters</li> <li>Cyber asset details</li> </ul>
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> </ul>
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> <li>Network utilization data collection</li> </ul>

## **Product capabilities** Category **Application dependency level** Application and server dependency · Application and software process The ability to discover application dependency dependency and export dependency data: Application and server dependency – Individual servers and dependencies that form an application Application and software process dependency - Individual software processes, configurations, and dependencies that form an application Application and code dependency – Individual programming code, configura tions, and dependencies that form an application Visualization level All resource and applications Single application The ability to provide multiple-level Single application and its software visualization of applications: processes All resource and applications – An entire on-premises or source environment with all resources and applications • Single application – A single application across its resources, end to end Single application and its software processes – Individual software processes and dependencies that form an applicati on

Discovery capabilities 57

Single application and its programming

code - Individual programming code and dependencies that form an application

Category	Product capabilities
Database details discovery, source database system	<ul> <li>Database engine</li> <li>Database editions</li> <li>Schemas</li> <li>Database size</li> <li>Number of partitions</li> <li>Clustering and servers in the cluster</li> </ul>
Database details discovery, database type	<ul> <li>MariaDB</li> <li>Microsoft SQL Server</li> <li>MongoDB</li> <li>MySQL</li> <li>Oracle</li> <li>PostgreSQL</li> <li>Redis</li> <li>SQLite</li> </ul>
Storage details discovery, systems	Local storage
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
Storage details discovery, utilization	<ul> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak throughput (MB per second)</li> </ul>
File system details discovery	<ul> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>

Category	Product capabilities
Software details discovery, programming languages	Not available
Software details discovery, frameworks or libraries	Not available
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Any software installed using OS provided installation and packaging system mechanism
Container details discovery	Docker
License discovery	Microsoft – Microsoft SQL Server, Windows Server
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Not available
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## **Corent SurPaas MaaS**

Last update: May 15, 2023

Corent SurPaas MaaS 59



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#### **Product overview**

Category	Product capabilities
Product website	Corent SurPaas MaaS
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace  Link to subscribe or download	Corent MaaS on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer- deployed	SaaS on AWS (vendor VPC)
Compliance	International Organization for Standardization (ISO) 27001
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> </ul>

Product overview

Category	Product capabilities
	<ul> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<ul> <li>Discovery method</li> <li>The ability to support one or more of the following discovery methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul> <li>Agentless</li> <li>Agent-based</li> </ul>
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Software processes</li> <li>Linux</li> </ul>
Operating systems discoverable	<ul> <li>Linux</li> <li>Windows</li> <li>Other – IBM AIX, HP-X, Solaris</li> </ul>

Category	Product capabilities
Other resources discoverable	<ul><li>Dependency mapping</li><li>Performance monitoring</li></ul>
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> </ul>
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> <li>Detached storage utilization data collection</li> <li>Network utilization data collection</li> </ul>

on

Single application and its programming

code - Individual programming code and dependencies that form an application

## Tools for migrating to the AWS Cloud **Product capabilities** Category **Application dependency level** Application and server dependency · Application and software process The ability to discover application dependency dependency and export dependency data: Application and server dependency – Individual servers and dependencies that form an application Application and software process dependency - Individual software processes, configurations, and dependencies that form an application Application and code dependency – Individual programming code, configura tions, and dependencies that form an application Visualization level All resource and applications Single application The ability to provide multiple-level Single application and its software visualization of applications: processes All resource and applications – An entire on-premises or source environment with all resources and applications • Single application – A single application across its resources, end to end Single application and its software processes – Individual software processes and dependencies that form an applicati

Category	Product capabilities
Database details discovery, source database system	<ul> <li>Database engine</li> <li>Database editions</li> <li>Schemas</li> <li>Database size</li> <li>Clustering and servers in the cluster</li> <li>Failover configuration (active-active, active-standby)</li> </ul>
Database details discovery, database type	<ul><li>MariaDB</li><li>Microsoft SQL Server</li><li>MySQL</li><li>Oracle</li><li>PostgreSQL</li></ul>
Storage details discovery, systems	<ul><li>Local storage</li><li>Storage Area Network (SAN)</li><li>Network Attached Storage (NAS)</li></ul>
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage pool name and size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
Storage details discovery, configuration	<ul> <li>Media types (for example, SSD, magnetic disks, tape)</li> <li>LUN in SAN SCSI environment</li> </ul>
File system details discovery	<ul> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>

Category	Product capabilities
Software details discovery, programming languages	.NET, Java, Perl, PHP, Python, Ruby
Software details discovery, frameworks or libraries	Apache, Apache Tomcat, ASP.NET, Apache Tomcat, Microsoft IIS, Red Hat JBoss, IBM WebSphere
Software details discovery, tools	CRM, document management, ERP, SAP, Microsoft SharePoint
Container details discovery	Not available
License discovery	<ul> <li>Microsoft – Windows, Microsoft SQL Server</li> <li>Oracle – Oracle Database</li> </ul>
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## **Datadog**

Last update: May 15, 2023



#### Notice

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Datadog

about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## **Product overview**

Category	Product capabilities
Product website	Datadog
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Applicati on Monitoring and Orchestration
AWS Marketplace	Datadog on AWS Marketplace
Link to subscribe or download	
Tool deployment model	SaaS on AWS (vendor VPC)
Product can be SaaS-based or customer- deployed	<ul> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	<ul> <li>Health Insurance Portability and Accountab ility Act (HIPAA) Compliant Log Managemen t and Security Monitoring</li> </ul>
	<ul> <li>System and Organization Controls 2 (SOC 2)</li> <li>Type I and Type II</li> </ul>
	<ul> <li>International Organization for Standardi zation (ISO) 27001</li> </ul>
	<ul> <li>Federal Risk and Authorization Management Program (FedRAMP) LI-SaaS ATO</li> </ul>
	<ul> <li>FedRAMP Moderate Impact for products in US1-FED site</li> </ul>
	<ul> <li>General Data Protection Regulation (GDPR)</li> </ul>

Product overview 66

Category	• CCPA Addendum
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription (14-day free trial)

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method	<ul><li>Agentless</li><li>Agent-based</li></ul>
The ability to support one or more of the following discovery methods:	<b>3</b>
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	

Category	Product capabilities
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Network devices</li> <li>Software processes</li> <li>Containers</li> </ul>
Operating systems discoverable	<ul> <li>Linux – Amazon Linux, CentOS, Debian GNU/Linux, Fedora Linux, Red Hat, SUSE, Ubuntu</li> <li>Windows</li> <li>IBM AIX</li> <li>Other – CoreOS, macOS</li> </ul>
Other resources discoverable	No additional information
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> <li>Network devices and profiles</li> </ul>

Application and code dependency –

application

Individual programming code, configurations, and dependencies that form an

#### **Product capabilities Category** Resource utilization data collection • Physical and virtual server utilization data collection The ability to collect time-series utilization Attached storage utilization data collection data, such peak, average, median, standard Detached storage utilization data collection deviation, IOPS, throughput, percentile · Network utilization data collection with sampling interval of 5 minutes, and minimum sampling duration of 1 month **Application dependency level** Application and server dependency Application and software process The ability to discover application dependency dependency and export dependency data: Application and code dependency Application and server dependency – Individual servers and dependencies that form an application Application and software process dependency - Individual software processes, configurations, and dependencies that form an application

dependencies that form an application

## **Category Product capabilities** Visualization level • All resource and applications Single application The ability to provide multiple-level • Single application and its software visualization of applications: processes • All resource and applications – An entire Single application and its programming on-premises or source environment with code all resources and applications • Single application – A single application across its resources, end to end • Single application and its software processes – Individual software processes and dependencies that form an applicati on • Single application and its programming code - Individual programming code and

Category	Product capabilities
Database details discovery, source database system	<ul> <li>Database editions</li> <li>Schemas</li> <li>Database size</li> <li>Number of partitions</li> <li>Clustering and servers in the cluster</li> <li>Backups</li> <li>Failover configuration (active-active, active-standby)</li> <li>Mapping to storage via storage layers (for example, mapping of tablespaces via Automatic Storage Management file system for Oracle)</li> <li>Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
Database details discovery, database type	<ul> <li>MariaDB</li> <li>Microsoft SQL Server</li> <li>MongoDB</li> <li>MySQL</li> <li>Oracle</li> <li>PostgreSQL</li> <li>Redis</li> </ul>
Storage details discovery, systems	<ul><li>Local storage</li><li>Storage Area Network (SAN)</li><li>Network Attached Storage (NAS)</li></ul>

Category	Product capabilities
Storage details discovery, types  The ability to discover storage system types and access protocols	<ul> <li>File storage (for example, NFS or SMB)</li> <li>Block storage (for example, Fiber Channel or iSCSI)</li> <li>Object storage (for example, Atmos, Vantara, HTTP, or REST)</li> </ul>
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage pool name and size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
Storage details discovery, configuration	<ul> <li>Media types (for example, SSD, magnetic disks, tape)</li> <li>Relationships among disk, array, LUN, and VM</li> </ul>
Storage details discovery, utilization	<ul> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak throughput (MB per second)</li> <li>Mean disk latency (milliseconds)</li> <li>Peak disk latency (milliseconds)</li> </ul>
Storage details discovery, object metadata	<ul> <li>Object type (for example, text file, image, database data)</li> <li>Object size (MB)</li> <li>Object usage: last modified time</li> <li>Object access permissions</li> <li>Object encryption status</li> </ul>

Category	Product capabilities
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	No additional information
File system details discovery	<ul> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
Software details discovery, programming languages	C++, Elixir, Go, Java, .NET, NodeJS, PHP, Python, Ruby
Software details discovery, frameworks or libraries	ASP.NET, Django, Drupal, Elasticsearch, Flask, Gin, gRPC, MongoDB, Spring Web, WordPress, and more
Software details discovery, tools	Microsoft Azure DevOps, Bitbucket, GitHub, GitLab, Gremlin, Jira, PagerDuty, ServiceNow, Sentry, Zendesk
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Name, edition, and version

Category	Product capabilities
Container details discovery	<ul> <li>Amazon Elastic Container Service (Amazon ECS)</li> <li>Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>containerd</li> <li>Docker</li> <li>Kubernetes</li> <li>Red Hat OpenShift</li> <li>Rancher</li> </ul>
License discovery	Not available
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Not available
The ability to export the discovered data into a usable format, such as CSV or JSON	Not available

## Device42

Last update: May 15, 2023



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Device42 74

## **Product overview**

Category	Product capabilities
Product website	Device42
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace  Link to subscribe or download	Device42 on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> </ul>
Compliance	Because Device42 is deployed within the customer environment, many of these compliance standards are not required, such as Federal Risk and Authorization Managemen t Program (FedRAMP) and General Data Protection Regulation (GDPR). As a result, Device42 meets the standard.
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> </ul>

Product overview 75

Category	Product capabilities
	<ul> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

## Discovery, planning, and recommendation capabilities

Category	Product capabilities
<ul> <li>Discovery method</li> <li>The ability to support one or more of the following discovery methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul><li>Agentless</li><li>Agent-based</li><li>Login-based</li></ul>
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Network devices</li> <li>Software processes</li> <li>Containers</li> <li>Mainframe</li> </ul>
Operating systems discoverable	• Linux

Category	Product capabilities
	<ul> <li>Windows</li> <li>Other – FreeBSD, HP-UX, IBM AIX, IBMi, IBM Z, macOS, OpenBSD, Solaris, Unix</li> </ul>
Other resources discoverable	Cloud discovery for AWS, Microsoft Azure, Google Cloud Platform (GCP), and Oracle. For details, see the <u>Device42 website</u> .
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> </ul>
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> <li>Detached storage utilization data collection</li> <li>Network utilization data collection</li> </ul>

## Tools for migrating to the AWS Cloud **AWS Prescriptive Guidance Product capabilities** Category **Application dependency level** Application and server dependency · Application and software process The ability to discover application dependency dependency and export dependency data: Application and server dependency – Individual servers and dependencies that form an application Application and software process dependency - Individual software processes, configurations, and dependencies that form an application Application and code dependency – Individual programming code, configura tions, and dependencies that form an application Visualization level All resource and applications Single application The ability to provide multiple-level Single application and its software visualization of applications: processes All resource and applications – An entire on-premises or source environment with all resources and applications • Single application – A single application across its resources, end to end Single application and its software processes – Individual software processes

Discovery capabilities 78

and dependencies that form an applicati

code - Individual programming code and dependencies that form an application

Single application and its programming

on

Category	Product capabilities
Database details discovery, source database system	<ul> <li>Database engine</li> <li>Database editions</li> <li>Schemas</li> <li>Database size</li> <li>Clustering and servers in the cluster</li> <li>Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
Database details discovery, database type	<ul> <li>MariaDB</li> <li>Microsoft SQL Server</li> <li>MongoDB</li> <li>MySQL</li> <li>Oracle</li> <li>PostgreSQL</li> <li>Redis</li> <li>SQLite</li> </ul>
Storage details discovery, systems	<ul><li>Local storage</li><li>Storage Area Network (SAN)</li><li>Network Attached Storage (NAS)</li></ul>
Storage details discovery, types  The ability to discover storage system types and access protocols	<ul> <li>File storage (for example, NFS or SMB)</li> <li>Block storage (for example, Fiber Channel or iSCSI)</li> </ul>
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage pool name and size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>

Category	Product capabilities
Storage details discovery, configuration	<ul> <li>Media types (for example, SSD, magnetic disks, tape)</li> <li>LUN in SAN SCSI environment</li> <li>RAID levels (RAID 0, RAID 1,, RAID 6)</li> <li>Relationships among disk, array, LUN, and VM</li> </ul>
Storage details discovery, utilization	<ul> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak throughput (MB per second)</li> <li>Mean disk latency (milliseconds)</li> <li>Peak disk latency (milliseconds)</li> </ul>
Storage details discovery, object metadata	Not available

Category	Product capabilities
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	<ul> <li>Celerra</li> <li>Dell Equallogic</li> <li>EMC ECS, EMC Recover Point, EMC VMAX, EMC VNX, EMC VNXE, EMC XTREME IO</li> <li>HDS G1000</li> <li>Hitachi</li> <li>HP Lefthand, HPE 3PAR</li> <li>HPE Nimble</li> <li>IBM Infinidat</li> <li>LSI</li> <li>NetApp</li> <li>Oracle ZFS</li> <li>Pure Storage</li> <li>Tintri</li> <li>VMware</li> </ul>
File system details discovery	<ul> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> </ul>
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Name, edition, and version
Container details discovery	<ul><li>Docker</li><li>Kubernetes</li><li>Linux Containers (LXC)</li></ul>

Category	Product capabilities
License discovery	<ul> <li>Microsoft – Hyper-V, Microsoft SQL Server, Windows, Microsoft Office, and others</li> <li>Oracle – Operating System, Oracle Applicati on Server, and others</li> <li>Application software – All running processes and installed software through package manager</li> </ul>
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## **Dynatrace**

Last update: May 15, 2023



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Dynatrace

## **Product overview**

Category	Product capabilities
Product website	Dynatrace
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Applicati on Monitoring and Orchestration
AWS Marketplace  Link to subscribe or download	Dynatrace on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	<ul> <li>General Data Protection Regulation (GDPR)</li> <li>International Organization for Standardi zation (ISO) 27001</li> <li>System and Organization Controls 2 (SOC 2) Type II</li> <li>The Dynatrace SaaS infrastructure is hosted in AWS, which meets many certification requirements, including System and Organizat ion Controls (SOC) 1-3 / SSAE-16, ISO 27001, ISO 27017, ISO 27018, Payment Card Industry Data Security Standard (PCI DSS) level 1, Federal Risk and Authorization Management Program (FedRAMP), and more.</li> </ul>

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Category	Product capabilities
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method	• Agentless
The ability to support one or more of the following discovery methods:	Agent-based
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	

Category	Product capabilities
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Network devices</li> <li>Software processes</li> <li>Containers</li> <li>Mainframe</li> </ul>
Operating systems discoverable	<ul> <li>Linux</li> <li>Windows</li> <li>Other – Android, IBM AIX, iOS, Solaris, IBM z/OS</li> </ul>
Other resources discoverable	Citrix NetScaler 10.5+, IBM DataPower 4.0+, F5 BIG-IP LTM 11+, IBM iSeries (AS/400) - Preview 7.2+, IBM MQ 8.0+, Juniper Networks - Preview 12.1+, SAP ABAP platform - Preview 7.31+, Windows Server 2003+
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>Network devices and profiles</li> </ul>
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> <li>Network utilization data collection</li> </ul>

## Category

#### Application dependency level

The ability to discover application dependency and export dependency data:

- Application and server dependency Individual servers and dependencies that form an application
- Application and software process dependency – Individual software processes, configurations, and dependencies that form an application
- Application and code dependency Individual programming code, configura tions, and dependencies that form an application

#### **Product capabilities**

- Application and server dependency
- Application and software process dependency
- · Application and code dependency

#### Visualization level

The ability to provide multiple-level visualization of applications:

- All resource and applications An entire on-premises or source environment with all resources and applications
- Single application A single application across its resources, end to end
- Single application and its software processes – Individual software processes and dependencies that form an applicati on
- Single application and its programming code – Individual programming code and dependencies that form an application

- All resource and applications
- Single application
- Single application and its software processes
- Single application and its programming code

Category	Product capabilities
Database details discovery, source database system	<ul> <li>Database engine</li> <li>Runtime metrics (for example, server memory usage, client connections, transacti ons, batch requests)</li> </ul>
Storage details discovery  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available
File system details discovery	Not available
Software details discovery, programming languages	Java, .NET, .NET Core, C / C++, Go, NodeJS, PHP, Python, Scala
Software details discovery, frameworks or libraries	Over 100 frameworks supported, Database, Web, Web services, Remoting, JavaScript, .NET, C++, Java
Container details discovery	<ul> <li>BOSH bpm</li> <li>containerd</li> <li>CRI-O</li> <li>Docker</li> <li>Docker Enterprise</li> <li>Garden-runC</li> <li>Kubernetes</li> <li>Red Hat OpenShift</li> <li>SUSE CaaS</li> <li>VMware Tanzu Kubernetes Grid</li> </ul>
License discovery	Not available

Category	Product capabilities
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## Flexera Cloud Migration and Modernization

Last update: May 15, 2023



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## **Product overview**

Category	Product capabilities
Product website	Flexera
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation

Flexera

Category	Product capabilities
AWS Marketplace  Link to subscribe or download	Flexera Cloud Migration and Modernization on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> </ul>
Compliance	<ul> <li>APP Entity</li> <li>General Data Protection Regulation (GDPR)</li> <li>Health Insurance Portability and Accountability Act (HIPAA)</li> <li>Payment card industry (PCI)</li> <li>System and Organization Controls (SOC)</li> </ul>
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

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# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method  The ability to support one or more of the following discovery methods:	Agentless
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	
Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers	
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Resources discoverable	<ul><li>Servers and operating systems</li><li>Databases</li></ul>
The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul><li> Databases</li><li> Storage systems</li><li> Network devices</li><li> Software processes</li></ul>
Operating systems discoverable	<ul> <li>Linux – CentOS (5.x, 6.x, 7.x), Red Hat Enterprise Linux (RHEL), SUSE, Ubuntu (12.04, 14.04, 16.04)</li> <li>Windows</li> <li>Other – IBM AIX, Oracle, Unix</li> </ul>
Other resources discoverable	Basic equipment (IP phones, printers, fax machines), databases, load balancers (NetScaler, F5 Networks), network equipment (switches, routers, firewalls, etc.), SUSE Linux Enterprise Server (9, 10, 11, 12)

#### **Product capabilities** Category **Discovery of resource profiles** Physical and virtual servers and their profiles The ability to discover the CPU family Attached storage and profiles – data storage (such as x86 or RISC/PowerPC), number of device connected directly to a server or CPU cores, memory size, number of disks, virtual machine (VM) storage size, IOPS, network interfaces, or Detached storage and profiles – data bandwidth storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN) Network devices and profiles Resource utilization data collection Physical and virtual server utilization data collection The ability to collect time-series utilization Attached storage utilization data collection data, such peak, average, median, standard Detached storage utilization data collection deviation, IOPS, throughput, percentile Network utilization data collection with sampling interval of 5 minutes, and minimum sampling duration of 1 month **Application dependency level** Application and server dependency Application and software process The ability to discover application dependency dependency and export dependency data: Application and server dependency – Individual servers and dependencies that form an application Application and software process dependency - Individual software processes, configurations, and dependencies that form an application Application and code dependency – Individual programming code, configura tions, and dependencies that form an application

## **Product capabilities** Category Visualization level All resource and applications Single application The ability to provide multiple-level Single application and its software visualization of applications: processes • All resource and applications – An entire on-premises or source environment with all resources and applications • Single application – A single application across its resources, end to end • Single application and its software processes – Individual software processes and dependencies that form an applicati on Single application and its programming code - Individual programming code and dependencies that form an application Database details discovery, source database Database engine system Database editions Schemas Database size Mapping to storage via storage layers (for example, mapping of tablespaces via Automatic Storage Management file system for Oracle) • Runtime metrics (for example, server memory usage, client connections, transacti ons, batch requests) Database details discovery, database type Microsoft SQL Server • MySQL Oracle

Category	Product capabilities
Storage details discovery, systems	<ul><li>Local storage</li><li>Network Attached Storage (NAS)</li></ul>
Storage details discovery, types  The ability to discover storage system types and access protocols	<ul> <li>File storage (for example, NFS or SMB)</li> <li>Block storage (for example, Fiber Channel or iSCSI)</li> </ul>
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
Storage details discovery, utilization	<ul> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak disk latency (milliseconds)</li> </ul>
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Based on credential support
File system details discovery	<ul> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
Software details discovery, programming languages	C++, Fortran, Java, JavaScript, PHP, Python, SQL, essentially anything that is discovered in the Process List

Category	Product capabilities
Software details discovery, frameworks or libraries	Apache, Apache Tomcat, ASP.NET, BSD, Microsoft IIS, Java, Red Hat JBoss, NGen, Open Toolkit
Software details discovery, tools	Any tool with an on-premises component
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Name, edition, and version
Container details discovery	Not available
License discovery	<ul> <li>Microsoft – Microsoft SQL Server, Windows</li> <li>Oracle – All licenses publicly from vendor</li> <li>Application software – All licenses publicly from vendor</li> </ul>
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## **Matilda Discover**

Last update: May 15, 2023

Matilda Discover 94



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## **Product overview**

Category	Product capabilities
Product website	Matilda Discover
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace	National State of
Link to subscribe or download	Not available
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	International Organization for Standardization (ISO) 27001
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> </ul>

Product overview

Category	Product capabilities
	<ul> <li>Self-service with vendor support –         Deployment, management, and maintenan         ce can be done by customer or end-user         with the option of vendor support     </li> </ul>
	<ul> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
<ul> <li>Discovery method</li> <li>The ability to support one or more of the following discovery methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul> <li>Agentless</li> <li>Agent-based</li> <li>Login-based</li> </ul>
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Network devices</li> <li>Software processes</li> </ul>

Category	Product capabilities
	Containers
Operating systems discoverable	<ul> <li>Linux – Ubuntu 12.04+, Red Hat Enterpris e Linux (RHEL) 5+, CentOS 5+, Oracle Enterprise 5+, SUSE 11+</li> <li>Microsoft – Windows 2003 and later</li> <li>HP – HP-UX 11 and later</li> <li>Solaris – Solaris 10+</li> <li>IBM – IBM AIX 6+</li> </ul>
Other resources discoverable	<ul> <li>Applications</li> <li>Application interdependencies</li> <li>Firewall rules</li> <li>Client app DNS</li> <li>IP addresses and DNS</li> <li>Machine details</li> <li>Microsoft SQL Server license discovery</li> <li>Load balancers (hardware and software)</li> <li>Storage devices</li> <li>Network devices</li> </ul>
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> <li>Network devices and profiles</li> </ul>

Application and code dependency –

application

Individual programming code, configurations, and dependencies that form an

#### **Product capabilities Category** Resource utilization data collection • Physical and virtual server utilization data collection The ability to collect time-series utilization Attached storage utilization data collection data, such peak, average, median, standard Detached storage utilization data collection deviation, IOPS, throughput, percentile · Network utilization data collection with sampling interval of 5 minutes, and minimum sampling duration of 1 month **Application dependency level** Application and server dependency Application and software process The ability to discover application dependency dependency and export dependency data: Application and code dependency Application and server dependency – Individual servers and dependencies that form an application Application and software process dependency - Individual software processes, configurations, and dependencies that form an application

## **Product capabilities Category** Visualization level All resource and applications Single application The ability to provide multiple-level Single application and its software visualization of applications: processes • All resource and applications – An entire on-premises or source environment with all resources and applications • Single application – A single application across its resources, end to end • Single application and its software processes – Individual software processes and dependencies that form an applicati on Single application and its programming code - Individual programming code and dependencies that form an application Database details discovery, source database Database engine system Database editions Schemas Database size · Number of partitions Clustering and servers in the cluster Backups • Failover configuration (active-active, activestandby) • Runtime metrics (for example, server memory usage, client connections, transacti ons, batch requests)

Category	Product capabilities
Database details discovery, database type	<ul> <li>MariaDB</li> <li>Microsoft SQL Server</li> <li>MongoDB</li> <li>MySQL</li> <li>Oracle</li> <li>PostgreSQL</li> <li>Redis</li> <li>SQLite</li> </ul>
Storage details discovery, systems	<ul><li>Local storage</li><li>Storage Area Network (SAN)</li><li>Network Attached Storage (NAS)</li></ul>
Storage details discovery, types  The ability to discover storage system types and access protocols	<ul> <li>File storage (for example, NFS or SMB)</li> <li>Block storage (for example, Fiber Channel or iSCSI)</li> <li>Object storage (for example, Atmos, Vantara, HTTP, or REST)</li> </ul>
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage pool name and size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
Storage details discovery, configuration	<ul> <li>Media types (for example, SSD, magnetic disks, tape)</li> <li>RAID levels (RAID 0, RAID 1,, RAID 6)</li> </ul>

Category	Product capabilities
Storage details discovery, utilization	<ul> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak throughput (MB per second)</li> <li>Mean disk latency (milliseconds)</li> <li>Peak disk latency (milliseconds)</li> </ul>
Storage details discovery, object metadata	<ul> <li>Object type (for example, text file, image, database data)</li> <li>Object size (MB)</li> </ul>
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Provided that SNMP is enabled
File system details discovery	<ul> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
Software details discovery, programming languages	Java, .NET, Python, Ruby, NodeJS, Angular, React
Software details discovery, frameworks or libraries	Platform can identify all Java, .NET, Python, and Ruby based application frameworks. Platform can detect AngularJS, ReactJS frameworks. Applications running in Spring Boot services, Kubernetes platform. Other platforms such as Hadoop, SAP, and ERP systems.

Category	Product capabilities
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Name, edition, and version
Container details discovery	<ul><li>Docker</li><li>Kubernetes</li></ul>
License discovery	<ul> <li>Microsoft – Microsoft SQL Server, Windows operating systems, Hyper-V, Microsoft Office, Microsoft Active Directory</li> <li>Oracle – Oracle Database, Oracle EBS applications, Oracle WebLogic</li> <li>Platform can extract software licenses for a variety of application software, including software IBM Db2, Informix, SAP Systems, IBM WebSphere, Oracle WebLogic, Microsoft IIS, Red Hat JBoss, and WildFly</li> </ul>
Data sovereignty support	Available
The ability to keep discovered data within a specific geographic region	Available
Data export ability	Available
The ability to export the discovered data into a usable format, such as CSV or JSON	/ Wallaste

# **Migration Evaluator**

Last update: May 15, 2023

Migration Evaluator 102

## **Product overview**

Category	Product capabilities
Product website	Migration Evaluator
Request for discovery assessment  The ability to provide a business case to make sound AWS planning and migration decisions	Submit request
Tool deployment model  Product can be SaaS-based or customer-deployed	Servers deployed on premises in customer environment
Compliance	General Data Protection Regulation (GDPR)
Service model	Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services
Pricing model	No charge

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method	Agentless
The ability to support one or more of the following discovery methods:	
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	

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Category	Product capabilities
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul><li>Servers and operating systems</li><li>Databases</li></ul>
Operating systems discoverable	<ul><li>Linux</li><li>Windows</li></ul>
Other resources discoverable	Virtualization stacks
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> </ul>
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> </ul>

Category	Product capabilities
Application dependency level	Application and server dependency
<ul> <li>The ability to discover application dependency and export dependency data:</li> <li>Application and server dependency – Individual servers and dependencies that form an application</li> <li>Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul>	
<ul> <li>Visualization level</li> <li>The ability to provide multiple-level visualization of applications:         <ul> <li>All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>Single application – A single application across its resources, end to end</li> <li>Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul> </li> </ul>	All resources and applications through AWS Migration Hub

Category	Product capabilities
Database details discovery, source database system	<ul> <li>Database engine</li> <li>Database editions</li> <li>Clustering and servers in the cluster</li> <li>Failover configuration (active-active, active-standby)</li> </ul>
Database details discovery, database type	Microsoft SQL Server
Storage details discovery, systems	Local storage
Storage details discovery, types  The ability to discover storage system types and access protocols	Block storage (for example, Fiber Channel or iSCSI)
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
File system details discovery	Not available
Software details discovery	Not available
Container details discovery	Not available
License discovery	Microsoft SQL Server version and edition
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available

Category	Product capabilities
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## modelizeIT

Last update: May 15, 2023



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## **Product overview**

Category	Product capabilities
Product website	modelizeIT
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace  Link to subscribe or download	modelizeIT on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul><li>SaaS on AWS (vendor VPC)</li><li>Servers deployed on AWS (customer VPC)</li></ul>

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Category	Product capabilities
	<ul> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	<ul> <li>General Data Protection Regulation (GDPR)</li> <li>Health Insurance Portability and Accountability Act (HIPAA)</li> <li>Payment card industry (PCI)</li> <li>System and Organization Controls (SOC) and other certifications are available through delivery partners</li> </ul>
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

Product overview 108

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
<ul> <li>Discovery method</li> <li>The ability to support one or more of the following discovery methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul><li>Agentless</li><li>Agent-based</li><li>Login-based</li></ul>
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Network devices</li> <li>Software processes</li> <li>Containers</li> <li>Mainframe</li> </ul>
Operating systems discoverable	<ul> <li>Linux – Amazon Linux, Mainframe zLinux</li> <li>Windows</li> <li>Others – FreeBSD, HP-UX, Hyper-V, IBM AIX, OpenVMS, SCO UNIX, Solaris, Tru64 UNIX, VMware</li> </ul>
Other resources discoverable	Hypervisors: Windows, Hyper-V, VMware, Kernel-based Virtual Machine (KVM), Xen, Oracle virtualization server, IBM AIX LPARs and

Category	Product capabilities
	WPARs, Solaris LDOMs and Zones, HP VPARs. Their configurations, clustering, and VMs.
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> <li>Network devices and profiles</li> </ul>
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> <li>Detached storage utilization data collection</li> <li>Network utilization data collection</li> </ul>

## **Category**

#### Application dependency level

The ability to discover application dependency and export dependency data:

- Application and server dependency Individual servers and dependencies that form an application
- Application and software process dependency – Individual software processes, configurations, and dependencies that form an application
- Application and code dependency Individual programming code, configura tions, and dependencies that form an application

## **Product capabilities**

- Application and server dependency
- Application and software process dependency
- · Application and code dependency

#### Visualization level

The ability to provide multiple-level visualization of applications:

- All resource and applications An entire on-premises or source environment with all resources and applications
- Single application A single application across its resources, end to end
- Single application and its software processes – Individual software processes and dependencies that form an applicati on
- Single application and its programming code – Individual programming code and dependencies that form an application

- All resource and applications
- Single application
- Single application and its software processes
- Single application and its programming code

Category	Product capabilities
Database details discovery, source database system	<ul> <li>Database editions</li> <li>Schemas</li> <li>Database size</li> <li>Number of partitions</li> <li>Clustering and servers in the cluster</li> <li>Backups</li> <li>Failover configuration (active-active, active-standby)</li> <li>Mapping to storage via storage layers (for example, mapping of tablespaces via Automatic Storage Management file system for Oracle)</li> <li>Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
Database details discovery, database type	<ul> <li>MariaDB</li> <li>Microsoft SQL Server</li> <li>MongoDB</li> <li>MySQL</li> <li>Oracle</li> <li>PostgreSQL</li> <li>Redis</li> <li>SQLite</li> </ul>
Storage details discovery, systems	<ul><li>Local storage</li><li>Storage Area Network (SAN)</li><li>Network Attached Storage (NAS)</li></ul>

Category	Product capabilities
Storage details discovery, types  The ability to discover storage system types and access protocols	<ul> <li>File storage (for example, NFS or SMB)</li> <li>Block storage (for example, Fiber Channel or iSCSI)</li> <li>Object storage (for example, Atmos, Vantara, HTTP, or REST)</li> </ul>
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage pool name and size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
Storage details discovery, configuration	<ul> <li>Media types (for example, SSD, magnetic disks, tape)</li> <li>LUN in SAN SCSI environment</li> <li>RAID levels (RAID 0, RAID 1,, RAID 6)</li> <li>Relationships among disk, array, LUN, and VM</li> </ul>
Storage details discovery, utilization	<ul> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak throughput (MB per second)</li> </ul>
Storage details discovery, object metadata	<ul> <li>Object type (for example, text file, image, database data)</li> <li>Object size (MB)</li> </ul>
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	EMC Isilon, NetApp filers, other devices from IBM, EMC, HP, Dell for which the information is discoverable at the client side

Category	Product capabilities
File system details discovery	<ul> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
Software details discovery, programming languages	SAP ABAP, COBOL, Java, JavaScript, Perl, PHP, PowerShell, Python, Shell script, VBS
Software details discovery, frameworks or libraries	Apache Tomcat, Microsoft IIS, Red Hat JBoss, Oracle Containers for J2EE, Oracle WebLogic, IBM WebSphere, and others
Software details discovery, tools	More than 2,000 models for various software vendors
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Name, edition, and version
Container details discovery	IBM AIX WPARs, Docker (including framework s on top of Docker such as Red Hat OpenShift and Rancher), Solaris containers (including Zones), Virtuozzo/OpenVZ. Containers are mapped to the applications deployed on them and related inter-dependencies.

Category	Product capabilities
License discovery	<ul> <li>Microsoft – Windows, Microsoft SQL Server, Hyper-V (150+ total Microsoft products)</li> <li>Oracle – 150+ Oracle products are identified d. Editions and versions are identified for Oracle Database, Oracle WebLogic, and many other products. Usage of database options, packs, features is analyzed. Products are mapped to CPU pools on the physical hosts for virtual and physical servers via various virtualiz ation and containerization technologies with consideration of Oracle CPU partition ing rules. CPU pools are mapped to the counts of required Oracle processor licenses according to the corresponding Oracle CPU factors.</li> <li>Application software – IBM Db2, IBM WebSphere, and various other products from IBM, Red Hat, TIBCO, and 670+ other vendors.</li> </ul>
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## **New Relic One**

Last update: May 15, 2023

New Relic One 115



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## **Product overview**

Category	Product capabilities
Product website	New Relic
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Applicati on Monitoring and Orchestration
AWS Marketplace  Link to subscribe or download	New Relic Infrastructure and Application  Monitoring on AWS Marketplace
Tool deployment model	SaaS on AWS (vendor VPC)
Product can be SaaS-based or customer- deployed	<ul> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	<ul> <li>Federal Risk and Authorization Management Program (FedRAMP) moderate</li> </ul>
	<ul> <li>General Data Protection Regulation (GDPR)</li> </ul>
	<ul> <li>Health Insurance Portability and Accountability Act (HIPAA)</li> </ul>
	<ul> <li>Payment card industry (PCI)</li> </ul>
	<ul> <li>System and Organization Controls (SOC)</li> </ul>

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Category	Product capabilities
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method  The ability to support one or more of the	<ul><li>Agentless</li><li>Agent-based</li></ul>
<ul><li>following discovery methods:</li><li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li></ul>	
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	

Category	Product capabilities
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul><li>Servers and operating systems</li><li>Databases</li><li>Software processes</li><li>Containers</li></ul>
Operating systems discoverable	<ul><li>Linux</li><li>Windows</li></ul>
Other resources discoverable	No additional information
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	Physical and virtual servers and their profiles
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> <li>Detached storage utilization data collection</li> <li>Network utilization data collection</li> </ul>

#### **Category**

#### Application dependency level

The ability to discover application dependency and export dependency data:

- Application and server dependency Individual servers and dependencies that form an application
- Application and software process dependency – Individual software processes, configurations, and dependencies that form an application
- Application and code dependency Individual programming code, configura tions, and dependencies that form an application

### **Product capabilities**

- Application and server dependency
- Application and software process dependency
- Application and code dependency

#### Visualization level

The ability to provide multiple-level visualization of applications:

- All resource and applications An entire on-premises or source environment with all resources and applications
- Single application A single application across its resources, end to end
- Single application and its software processes – Individual software processes and dependencies that form an applicati on
- Single application and its programming code – Individual programming code and dependencies that form an application

- All resource and applications
- Single application
- Single application and its software processes
- Single application and its programming code

Category	Product capabilities
Database details discovery, source database system	<ul> <li>Database engine</li> <li>Database editions</li> <li>Database size</li> <li>Clustering and servers in the cluster</li> <li>Failover configuration (active-active, active-standby)</li> <li>Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
Storage details discovery  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available
File system details discovery	<ul> <li>File system types (for example, disk, tape)</li> <li>File system configuration (for example, clustering, mount point)</li> <li>Directory locations or hierarchies, size, size used, or file access frequency</li> </ul>
Software details discovery, programming languages	.NET C#, Go, Java, Node, PHP, Python, Ruby
Software details discovery, frameworks or libraries	Apache Tomcat, ASP.NET, most modern Java frameworks
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Name, edition, and version

Category	Product capabilities
Container details discovery	<ul><li>Docker</li><li>Kubernetes</li><li>Red Hat OpenShift</li></ul>
License discovery	Not available
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## **Tidal Accelerator**

Last update: October 22, 2024



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## **Product overview**

Category	Product capabilities
Product website	<u>Tidal Accelerator</u>

Tidal Accelerator 121

Category	Product capabilities
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace  Link to subscribe or download	Not available
Tool deployment model  Product can be SaaS-based or customer- deployed	SaaS on AWS (vendor VPC)
Compliance	<ul> <li>General Data Protection Regulation (GDPR)</li> <li>Health Insurance Portability and Accountability Act (HIPAA)</li> <li>System and Organization Controls (SOC)</li> <li>System and Organization Controls 2 (SOC 2) Type II</li> </ul>
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

Product overview 122

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
<ul> <li>Discovery method</li> <li>The ability to support one or more of the following discovery methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul> <li>Agentless</li> <li>Login-based</li> </ul>
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul><li>Servers and operating systems</li><li>Databases</li><li>Software processes</li></ul>
Operating systems discoverable	<ul><li>Windows</li><li>Linux</li><li>Solaris</li><li>IBM AIX</li></ul>
Other resources discoverable	Not available
Discovery of resource profiles  The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks,	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>Network devices and profiles</li> </ul>

Category	Product capabilities
storage size, IOPS, network interfaces, or bandwidth	
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> <li>Network utilization data collection</li> </ul>
<ul> <li>Application dependency level</li> <li>The ability to discover application dependency and export dependency data:         <ul> <li>Application and server dependency – Individual servers and dependencies that form an application</li> <li>Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul> </li> </ul>	<ul> <li>Application and server dependency</li> <li>Application and software process dependency</li> <li>Application and code dependency</li> </ul>

Category	Product capabilities
Visualization level  The ability to provide multiple-level visualization of applications:  • All resource and applications – An entire on-premises or source environment with all resources and applications  • Single application – A single application across its resources, end to end  • Single application and its software processes – Individual software processes and dependencies that form an application  • Single application and its programming code – Individual programming code and	Single application
dependencies that form an application  Database details discovery, source database system	Database engine
Database details discovery, database type	<ul> <li>Microsoft SQL Server</li> <li>MySQL</li> <li>Oracle</li> <li>PostgreSQL</li> <li>Redis</li> <li>Neo4j</li> </ul>
Storage details discovery, systems	Local storage
Storage details discovery, types  The ability to discover storage system types and access protocols	Not available

Category	Product capabilities
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
Storage details discovery, configuration	Not available
Storage details discovery, utilization	Not available
Storage details discovery, object metadata	Not available
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Not available
File system details discovery	Not available
Software details discovery, programming languages	From the <u>Tidal guides</u> : C#, Java, JavaScript, Python, COBOL, PHP, C++, C, sh/bash., JSP, Perl, Visual Basic, VB.NET, VBScript
Software details discovery, frameworks or libraries	<ul> <li>All libraries frameworks in C#, JavaScript, Python</li> <li>Application frameworks: Apache Tomcat, Oracle WebLogic, IBM WebSphere</li> </ul>
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Not available

Category	Product capabilities
Container details discovery	Not available
License discovery	Not available
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Not available
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available
Code analysis  The ability to support static and dynamic code analysis, optionally identifying:  • Deprecated code  • Security concerns in code  • Resilience concerns in code	Security concerns in code
Pipeline integration  The ability to integrate with CI/CD pipelines for continuous code analysis	Available
Service discovery, mapping  The ability to automate service discovery mapping, which identifies the underlyin g services, dependencies, and communication patterns (including to external resources, such as SaaS providers)	Not available

Category	Product capabilities
Service discovery, recommendations  The ability to suggest optimizations for discovered services	Not available
Monolith decomposition, identification  The ability to identify candidate microserv ices, given classes, objects, functions, and stored procedures	Not available
Monolith decomposition, impact analysis  The ability to analyze the impact of the decomposition process	Available
Open source compliance analysis, identific ation  The ability to identify non-compliant open source solutions within an application	Not available
Open source compliance analysis, recommendations  The ability to suggest compliant alternati ves or remediation steps	Not available
Framework migration, standard  The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+	Not available

Category	Product capabilities
Framework migration, legacy  The ability to migrate legacy framework s, databases, or data formats during framework migrations	Not available
Environmental impact analysis  The ability to provide guidance about the sustainability of applications, such as before and after a migration	Available
Cost of change analysis, effort  The ability to estimate the effort required to modernize an application	Not available
Cost of change analysis, architecture  The ability to estimate the target architect ure costs after modernizing an application	Not available
Predictive outcome analysis  The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful	Available
Weighted analysis, preferences  The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost	Available

Category	Product capabilities
Weighted analysis, organizational priorities  The ability to customize and adjust weights as organizational priorities change	Available

## **Turbonomic**

Last update: May 15, 2023



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## **Product overview**

Category	Product capabilities
Product website	IBM Turbonomic
Product certifications  AWS Competency Program competencies and other certifications	<ul> <li>AWS Cloud Management Tools Competency</li> <li>AWS Microsoft Workloads Competency</li> <li>AWS Cloud Migration Competency</li> </ul>
AWS Marketplace  Link to subscribe or download	Turbonomic on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> </ul>

Turbonomic 130

Category	Product capabilities
	SaaS or servers in other cloud provider environment
Compliance	Not available
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> </ul>
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method  The ability to support one or more of the following discovery methods:	<ul><li>Agentless</li><li>Login-based</li></ul>
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	

Category	Product capabilities
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Software processes</li> <li>Containers</li> <li>Mainframe</li> </ul>
Operating systems discoverable	<ul><li>Linux</li><li>Windows</li><li>IBM AIX</li></ul>
Other resources discoverable	Bare metal, business applications (via APMs), containers and pods, hyper-converged systems, other cloud resources
The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	<ul> <li>Physical and virtual servers and their profiles</li> <li>Attached storage and profiles – data storage device connected directly to a server or virtual machine (VM)</li> <li>Detached storage and profiles – data storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN)</li> </ul>
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	<ul> <li>Physical and virtual server utilization data collection</li> <li>Attached storage utilization data collection</li> <li>Detached storage utilization data collection</li> </ul>

Category	Product capabilities
<ul> <li>Application dependency level</li> <li>The ability to discover application dependency and export dependency data:         <ul> <li>Application and server dependency – Individual servers and dependencies that form an application</li> <li>Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul> </li> </ul>	Not available
<ul> <li>Visualization level</li> <li>The ability to provide multiple-level visualization of applications:         <ul> <li>All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>Single application – A single application across its resources, end to end</li> <li>Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul> </li> </ul>	All resource and applications

Category	Product capabilities
Database details discovery, source database system	<ul> <li>Database engine</li> <li>Database editions</li> <li>Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)</li> </ul>
Storage details discovery, systems	<ul><li>Local storage</li><li>Storage Area Network (SAN)</li><li>Network Attached Storage (NAS)</li></ul>
Storage details discovery, configuration	Block storage (for example, Fiber Channel or iSCSI)
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
Storage details discovery, types  The ability to discover storage system types and access protocols	Relationships among disk, array, LUN, and VM
Storage details discovery, utilization	<ul> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak throughput (MB per second)</li> <li>Mean disk latency (milliseconds)</li> <li>Peak disk latency (milliseconds)</li> </ul>
Storage details discovery, object metadata	Not available

Category	Product capabilities
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	<ul> <li>EMC ScaleIO, EMC VMAX, EMC VPLEX, EMC XtremIO</li> <li>HPE 3PAR</li> <li>NetApp</li> <li>Pure Storage</li> </ul>
File system details discovery	Not available
Software details discovery	Not available
Container details discovery	<ul><li>Kubernetes</li><li>Red Hat OpenShift</li></ul>
License discovery	Microsoft – Windows, Microsoft SQL Server, Hyper-V (stand-alone of SSVMM)
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## vFunction

Last update: October 22, 2024



## Notice

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vFunction 135 about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## **Product overview**

Category	Product capabilities
Product website	vFunction
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace  Link to subscribe or download	vFunction on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> </ul>
Compliance	Not available
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>

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Category	Product capabilities
Pricing model	Subscription

# Discovery, planning, and recommendation capabilities

Category	Product capabilities
Discovery method	Agent-based
The ability to support one or more of the following discovery methods:	
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Resources discoverable	Software processes
The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	
Operating systems discoverable	<ul><li>Windows</li><li>Linux</li></ul>
Other resources discoverable	Custom software applications, business logic
Discovery of resource profiles	
The ability to discover the CPU family (such as x86 or RISC/PowerPC), number of	Not available

Category	Product capabilities
CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, or bandwidth	
Resource utilization data collection  The ability to collect time-series utilization data, such peak, average, median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes, and minimum sampling duration of 1 month	Not available
<ul> <li>Application dependency level</li> <li>The ability to discover application dependency and export dependency data:         <ul> <li>Application and server dependency – Individual servers and dependencies that form an application</li> <li>Application and software process dependency – Individual software processes, configurations, and dependencies that form an application</li> <li>Application and code dependency – Individual programming code, configurations, and dependencies that form an application</li> </ul> </li> </ul>	Application and code dependency

Category	Product capabilities
Visualization level	Single application and its programming code
<ul> <li>The ability to provide multiple-level visualization of applications:</li> <li>All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>Single application – A single application across its resources, end to end</li> <li>Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul>	
Database details discovery, source database system	Runtime metrics (for example, server memory usage, client connections, transactions, batch requests)
Storage details discovery  The ability to discover storage details, such as systems, types, capacity, configuration, utilization, and object metadata	Not available
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Not available
File system details discovery	Not available

Category	Product capabilities
Software details discovery, programming languages	Java, .NET, Python, Ruby, Go, NodeJS, C++, PHP++
Software details discovery, frameworks or libraries	J2EE, Spring, Spring Boot, Quarkus, Hibernate, ASP.NET, VB.NET, C#.NET, and most others
Software details discovery, ISV products  The ability to discover independent software vendor (ISV) products, such as Splunk Enterprise or F5 BIG-IP Virtual Edition	Not available
Container details discovery	Not available
License discovery	Not available
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
Data export ability  The ability to export the discovered data	Available
into a usable format, such as CSV or JSON  Code analysis	Deprecated code
The ability to support static and dynamic code analysis, optionally identifying:  • Deprecated code  • Security concerns in code  • Resilience concerns in code	<ul> <li>Resilience concerns in code</li> <li>Scalability, engineering velocity, technical debt</li> </ul>

Category	Product capabilities
Pipeline integration  The ability to integrate with CI/CD pipelines for continuous code analysis	Available
Service discovery, mapping  The ability to automate service discovery mapping, which identifies the underlyin g services, dependencies, and communication patterns (including to external resources, such as SaaS providers)	Available
Service discovery, recommendations  The ability to suggest optimizations for discovered services	Available
Monolith decomposition, identification  The ability to identify candidate microserv ices, given classes, objects, functions, and stored procedures	Available
Monolith decomposition, impact analysis  The ability to analyze the impact of the decomposition process	Available
Open source compliance analysis, identific ation  The ability to identify non-compliant open source solutions within an application	Available

Category	Product capabilities
Open source compliance analysis, recommendations	Available
The ability to suggest compliant alternati ves or remediation steps	
Framework migration, standard	
The ability to support framework migrations, such as Spring to Spring Boot or .NET Framework to .NET 6+	Available; can report on compatibility and necessary changes and can propose new code
Framework migration, legacy	
The ability to migrate legacy framework s, databases, or data formats during framework migrations	Available
Environmental impact analysis	
The ability to provide guidance about the sustainability of applications, such as before and after a migration	Not available
Cost of change analysis, effort	
The ability to estimate the effort required to modernize an application	Available
Cost of change analysis, architecture	Nie kon og til kilo
The ability to estimate the target architect ure costs after modernizing an application	Not available

Category	Product capabilities
Predictive outcome analysis  The ability to rate modernization outcomes based on aggregated, anonymized data, such as the risk of change, the effort of change, and a confidence level that the change will be successful	Available
Weighted analysis, preferences  The ability to weight preferences for modernization recommendations based on considerations such as performance, resilience, and cost	Available
Weighted analysis, organizational priorities  The ability to customize and adjust weights as organizational priorities change	Available

### **Virtana**

Last update: February 16, 2024



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# **Product overview**

Category	Product capabilities
Product website	<u>Virtana</u>
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace  Link to subscribe or download	Virtana on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on premises in customer environment</li> </ul>
Compliance	System and Organization Controls (SOC)
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

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# Discovery, planning, and recommendation capabilities

Category	Product capabilities
<ul> <li>Discovery method</li> <li>The ability to support one or more of the following discovery methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul> <li>Agentless</li> <li>Login-based</li> </ul>
Resources discoverable  The ability to discover servers, databases, storage systems, network devices, software processes, containers, and mainframes	<ul> <li>Servers and operating systems</li> <li>Databases</li> <li>Storage systems</li> <li>Network devices</li> <li>Containers</li> </ul>
Operating systems discoverable	<ul><li>Linux</li><li>Windows</li><li>Solaris</li></ul>
Other resources discoverable	KVM, Hyper-V, AppDynamics, Dynatrace , ServiceNow, NetFlow, Cisco UCS, IBM PowerVM, Kubernetes, Brocade SAN Switch, Cisco SAN Switch, Dell PowerFlex, PowerMax, VPLEX, PowerStore, XtremIO, Hitachi VSP, NetApp Storage, Pure, Cisco Nexus

#### **Product capabilities** Category Discovery of resource profiles Physical and virtual servers and their profiles The ability to discover the CPU family Attached storage and profiles – data storage (such as x86 or RISC/PowerPC), number of device connected directly to a server or CPU cores, memory size, number of disks, virtual machine (VM) storage size, IOPS, network interfaces, or Detached storage and profiles – data bandwidth storage accessed over a network such as network-attached storage (NAS) and storage area network (SAN) Network devices and profiles Resource utilization data collection Physical and virtual server utilization data collection The ability to collect time-series utilization Attached storage utilization data collection data, such peak, average, median, standard Detached storage utilization data collection deviation, IOPS, throughput, percentile Network utilization data collection with sampling interval of 5 minutes, and minimum sampling duration of 1 month **Application dependency level** Application and server dependency Application and software process The ability to discover application dependency dependency and export dependency data: Application and code dependency Application and server dependency – Individual servers and dependencies that form an application Application and software process dependency - Individual software processes, configurations, and dependencies that form an application Application and code dependency – Individual programming code, configura tions, and dependencies that form an application

Category	Product capabilities
<ul> <li>Visualization level</li> <li>The ability to provide multiple-level visualization of applications:         <ul> <li>All resource and applications – An entire on-premises or source environment with all resources and applications</li> <li>Single application – A single application across its resources, end to end</li> <li>Single application and its software processes – Individual software processes and dependencies that form an application</li> <li>Single application and its programming code – Individual programming code and dependencies that form an application</li> </ul> </li> </ul>	<ul> <li>All resource and applications</li> <li>Single application and its software processes</li> </ul>
Database details discovery, source database system	<ul><li>Database engine</li><li>Clustering and servers in the cluster</li></ul>
Database details discovery, database type	<ul> <li>MariaDB</li> <li>Microsoft SQL Server</li> <li>MongoDB</li> <li>MySQL</li> <li>Oracle</li> <li>PostgreSQL</li> </ul>
Storage details discovery, systems	<ul><li>Local storage</li><li>Storage Area Network (SAN)</li><li>Network Attached Storage (NAS)</li></ul>

Category	Product capabilities
Storage details discovery, configuration	<ul> <li>File storage (for example, NFS or SMB)</li> <li>Block storage (for example, Fiber Channel or iSCSI)</li> <li>Object storage (for example, Atmos, Vantara, HTTP, or REST)</li> </ul>
Storage details discovery, capacity	<ul> <li>Volume identifier and volume size (GB)</li> <li>Storage pool name and size (GB)</li> <li>Storage raw total size, raw usable size (GB)</li> <li>Used capacity (GB)</li> </ul>
Storage details discovery, types  The ability to discover storage system types and access protocols	<ul> <li>LUN in SAN SCSI environment</li> <li>RAID levels (RAID 0, RAID 1,, RAID 6)</li> <li>Relationships among disk, array, LUN, and VM</li> </ul>
Storage details discovery, utilization	<ul> <li>Mean (average) IOPS</li> <li>Peak IOPS</li> <li>Mean (average) throughput (MB per second)</li> <li>Peak throughput (MB per second)</li> <li>Mean disk latency (milliseconds)</li> <li>Peak disk latency (milliseconds)</li> </ul>
Storage details discovery, object metadata	Not available
Storage systems discoverable  The ability to discovery storage systems, such as EMC Isilon, EMC VMAX, Hitachi Vantara, HPE 3PAR, and Pure Storage	Dell PowerFlex, Hitachi VSP, HPE, IBM SVC, Infinidat, NetApp Storage, PowerMax, PowerProtect, PowerStore, Pure, Unity, VPLEX, XtremIO
File system details discovery	Not available

Category	Product capabilities
Software details discovery	Not available
Container details discovery	<ul><li>AWS</li><li>Kubernetes</li><li>Microsoft Azure</li><li>Red Hat OpenShift</li></ul>
License discovery	Not available
Data sovereignty support  The ability to keep discovered data within a specific geographic region	Available
Data export ability  The ability to export the discovered data into a usable format, such as CSV or JSON	Available

## **Business case analysis migration tools**

Understanding and optimizing the total cost of ownership (TCO) is crucial for successful cloud migrations. AWS and AWS Partners offer tools that can help you make informed financial decisions. These tools help you accurately estimate cloud costs and potential savings compared to onpremises environments. They can offer sophisticated TCO analysis capabilities, including detailed cost modeling, rightsizing recommendations, and optimization scenarios. These tools help you build a strong business case for migration by providing granular insights into current infrastructure costs, projected costs, and potential cost optimization opportunities across compute, storage, and networking resources. This data-driven approach to TCO analysis helps you make migration decisions that are financially sound and aligned with your business objectives.

This section is intended to help you choose the most appropriate tool for your situation. If specific features or capabilities are critical to your use case, you can use the filter categories and attributes available on Business Case Analysis migration tools in order to view only the tools that match your criteria.

#### This section describes the following business case analysis tools and their capabilities:

- Cloudamize
- CloudHealth by VMware
- Corent SurPaas MaaS
- Datadog
- Flexera Cloud Migration and Modernization
- Migration Evaluator
- Turbonomic

### **Cloudamize**

Last update: May 15, 2023



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Cloudamize 150 about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

## **Product overview**

Category	Product capabilities
Product website	Cloudamize
Product certifications  AWS Competency Program competencies and other certifications	<ul> <li>AWS Migration and Modernization –</li> <li>Business Case Analysis</li> <li>AWS Microsoft Workloads Competency</li> </ul>
AWS Marketplace	Cloudamize on AWS Marketplace
Link to subscribe or download	
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	<ul> <li>General Data Protection Regulation (GDPR)</li> <li>International Organization for Standardi zation (ISO) 27001</li> <li>System and Organization Controls 2 (SOC 2) Type II</li> </ul>
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan</li> </ul>

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Category	Product capabilities
	<ul> <li>ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# **Business case analysis capabilities**

Category	Product capabilities
The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)	Programmatically through the API
Right-sizing, Amazon EC2 instance type  The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile and utilizati on data, application characteristics, and Amazon EC2 characteristics.	<ul> <li>vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>CPU speed (GHz) per generation</li> <li>Application or user process CPU utilization</li> <li>Synthetic workload test against processor benchmarking</li> </ul>

Category	Product capabilities
	<ul> <li>Intel x86 Hyper-Threading Technology for symmetric multiprocessing (SMP) applicati ons</li> </ul>
Right-sizing, Amazon EC2 manufacturer	<ul><li>Intel-based EC2 instances</li><li>AMD-based EC2 instances</li><li>Arm-based EC2 instances</li></ul>
Exclusion of resource types  The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation	Yes
VMware Cloud on AWS analysis  The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage	Yes
Right-sizing, tenancy  The ability to make optimized recommend ations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances	<ul> <li>Dedicated Hosts</li> <li>Dedicated Instances</li> </ul>

Category	Product capabilities
Right-sizing, attached storage  The ability to use source storage profile data, utilization data, application character istics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD	Yes
Choice of resource capacity allocation  The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or finetune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan	Yes
License analysis  The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS	<ul> <li>Provide EC2 license options, including BYOL and AWS license-included options</li> <li>Optimize server license cost by reducing the licensable number of CPU cores</li> <li>Optimize server license edition (for example, recommend downgrade option from Microsoft SQL Server Enterprise to Microsoft SQL Server Standard)</li> <li>Analyze replatform costs; for example, Microsoft SQL Server to Amazon Relationa l Database Service (Amazon RDS), Oracle to Amazon Aurora PostgreSQL-Compatible Edition</li> <li>Analyze database consolidation costs</li> </ul>

Category	Product capabilities
TCO coverage, on premises  Cost estimates over 1 year and 3 years, respectively	Not available
TCO coverage, AWS  Cost estimates over 1 year and 3 years, respectively	<ul> <li>EC2 and Reserved Instance costs</li> <li>Storage costs</li> <li>Database costs</li> <li>Networking costs</li> <li>VMware Cloud on AWS costs</li> <li>License costs</li> </ul>
TCO coverage, migration  Cost estimates	Not available
TCO data sovereignty support  The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

<sup>&</sup>lt;sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

<sup>&</sup>lt;sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>&</sup>lt;sup>3</sup> Application characteristics – CPU-intense, CPU-bursty, memory-intense, storage I/O-bound, or network-bound

<sup>&</sup>lt;sup>4</sup> Amazon EC2 characteristics

## **CloudHealth by VMware**

Last update: May 15, 2023



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### **Product overview**

Category	Product capabilities
Product website	VMware Tanzu CloudHealth
Product certifications  AWS Competency Program competencies and other certifications	<ul> <li>AWS Migration and Modernization –</li> <li>Business Case Analysis</li> <li>AWS Cloud Management Tools Competency</li> </ul>
AWS Marketplace  Link to subscribe or download	VMware Tanzu CloudHealth on AWS Marketpla ce
Tool deployment model  Product can be SaaS-based or customer-deployed	SaaS on AWS (vendor VPC)
Compliance	System and Organization Controls 2 (SOC 2) Type II
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> </ul>

CloudHealth

Category	Product capabilities
	<ul> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# **Business case analysis capabilities**

Category	Product capabilities
Data import	Programmatically through the API
The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)	
Right-sizing, Amazon EC2 instance type  The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile <sup>1</sup> and utilizati on data <sup>2</sup> , application characteristics <sup>3</sup> , and Amazon EC2 characteristics <sup>4</sup>	<ul> <li>vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> </ul>
Exclusion of resource types  The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation	Yes

Category	Product capabilities
VMware Cloud on AWS analysis  The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage	No
Right-sizing, tenancy  The ability to make optimized recommend ations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances	<ul><li>Dedicated Hosts</li><li>Dedicated Instances</li></ul>
Right-sizing, attached storage  The ability to use source storage profile data, utilization data, application character istics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD	No
Choice of resource capacity allocation  The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or finetune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan	Yes

Category	Product capabilities
License analysis  The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS	Not available
TCO coverage, on premises  Cost estimates over 1 year and 3 years, respectively	<ul> <li>Server and storage costs</li> <li>Software, license, and support costs</li> <li>Facility and maintenance costs (rack, infrastructure, power, and real estate)</li> <li>Labor costs</li> </ul>
TCO coverage, AWS  Cost estimates over 1 year and 3 years, respectively	<ul> <li>EC2 and Reserved Instance costs</li> <li>Storage costs</li> <li>Database costs</li> <li>Networking costs</li> <li>License costs</li> </ul>
TCO coverage, migration  Cost estimates	<ul> <li>Training costs</li> <li>Tool costs</li> <li>Labor costs (customer, partner, and AWS resources)</li> <li>AWS services costs</li> </ul>
TCO data sovereignty support  The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	No

<sup>&</sup>lt;sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

## **Corent SurPaas MaaS**

Last update: May 15, 2023

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### **Product overview**

Category	Product capabilities
Product website	Corent SurPaas MaaS
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace	Corent MaaS on AWS Marketplace
Link to subscribe or download	

Corent SurPaas MaaS 160

<sup>&</sup>lt;sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>&</sup>lt;sup>3</sup> Application characteristics – CPU-intense, CPU-bursty, memory-intense, storage I/O-bound, or network-bound

<sup>&</sup>lt;sup>4</sup> Amazon EC2 characteristics

Category	Product capabilities
Tool deployment model  Product can be SaaS-based or customer-deployed	SaaS on AWS (vendor VPC)
Compliance	International Organization for Standardization (ISO) 27001
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# **Business case analysis capabilities**

Category	Product capabilities
Data import	Programmatically through the API
The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)	

Category	Product capabilities
Right-sizing, Amazon EC2 instance type  The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile 1 and utilizati on data2, application characteristics3, and Amazon EC2 characteristics4	<ul> <li>vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> </ul>
Exclusion of resource types  The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation	Yes
VMware Cloud on AWS analysis  The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage	No
Right-sizing, tenancy  The ability to make optimized recommend ations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances	Not available

Category	Product capabilities
Right-sizing, attached storage  The ability to use source storage profile data, utilization data, application character istics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD	Yes
Choice of resource capacity allocation  The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or finetune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan	Yes
License analysis  The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS	<ul> <li>Analyze replatform costs; for example,         Microsoft SQL Server to Amazon Relationa         I Database Service (Amazon RDS), Oracle         to Amazon Aurora PostgreSQL-Compatible         Edition</li> <li>Analyze database consolidation costs</li> </ul>
TCO coverage, on premises  Cost estimates over 1 year and 3 years, respectively	Not available

Category	Product capabilities
TCO coverage, AWS  Cost estimates over 1 year and 3 years, respectively	<ul> <li>EC2 and Reserved Instance costs</li> <li>Storage costs</li> <li>Database costs</li> <li>Networking costs</li> </ul>
TCO coverage, migration  Cost estimates	<ul> <li>Training costs</li> <li>Tool costs</li> <li>Labor costs (customer, partner, and AWS resources)</li> </ul>
TCO data sovereignty support  The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	SaaS deployment running in multiple AWS Regions based on the AWS Partner and customer needs

<sup>&</sup>lt;sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

## **Datadog**

Last update: May 15, 2023

Datadog 164

<sup>&</sup>lt;sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>&</sup>lt;sup>3</sup> Application characteristics – CPU-intense, CPU-bursty, memory-intense, storage I/O-bound, or network-bound

<sup>&</sup>lt;sup>4</sup> Amazon EC2 characteristics



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#### **Product overview**

Category	Product capabilities
Product website	Datadog
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Applicati on Monitoring and Orchestration
AWS Marketplace  Link to subscribe or download	Datadog on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer- deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	<ul> <li>CCPA Addendum</li> <li>Federal Risk and Authorization Management Program (FedRAMP) LI-SaaS ATO</li> <li>FedRAMP Moderate Impact for products in US1-FED site</li> <li>General Data Protection Regulation (GDPR)</li> <li>Health Insurance Portability and Accountab ility Act (HIPAA) Compliant Log Managemen t and Security Monitoring</li> </ul>

Product overview 165

Category	Product capabilities
	<ul> <li>International Organization for Standardi zation (ISO) 27001</li> <li>System and Organization Controls 2 (SOC 2) Type I and Type II</li> </ul>
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# **Business case analysis capabilities**

Category	Product capabilities
Data import	Programmatically through the API
The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)	
Right-sizing, Amazon EC2 instance type  The ability to select the Amazon EC2 instance type with the lowest cost based	<ul> <li>vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> </ul>

Category	Product capabilities
on the source server profile <sup>1</sup> and utilizati on data <sup>2</sup> , application characteristics <sup>3</sup> , and Amazon EC2 characteristics <sup>4</sup>	<ul> <li>CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>CPU speed (GHz) per generation</li> <li>Application or user process CPU utilization</li> <li>Synthetic workload test against processor benchmarking</li> <li>Intel x86 Hyper-Threading Technology for symmetric multiprocessing (SMP) applications</li> </ul>
Right-sizing, Amazon EC2 manufacturer	<ul><li>Intel-based EC2 instances</li><li>AMD-based EC2 instances</li><li>Arm-based EC2 instances</li></ul>
Exclusion of resource types  The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation	Yes
VMware Cloud on AWS analysis  The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage	No

Category	Product capabilities
Right-sizing, tenancy  The ability to make optimized recommend ations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances	<ul><li>Dedicated Hosts</li><li>Dedicated Instances</li></ul>
Right-sizing, attached storage  The ability to use source storage profile data, utilization data, application character istics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD	Yes
Choice of resource capacity allocation  The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or finetune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan	Yes
License analysis  The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS	Not available

Category	Product capabilities
TCO coverage, on premises  Cost estimates over 1 year and 3 years, respectively	Not available
TCO coverage, AWS  Cost estimates over 1 year and 3 years, respectively	Not available
TCO coverage, migration  Cost estimates	Not available
TCO data sovereignty support  The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

<sup>&</sup>lt;sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

## Flexera Cloud Migration and Modernization

Last update: May 15, 2023

Flexera 169

<sup>&</sup>lt;sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>&</sup>lt;sup>3</sup> Application characteristics – CPU-intense, CPU-bursty, memory-intense, storage I/O-bound, or network-bound

<sup>&</sup>lt;sup>4</sup> Amazon EC2 characteristics



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### **Product overview**

Category	Product capabilities
Product website	Flexera Cloud Migration
Product certifications  AWS Competency Program competencies and other certifications	AWS Migration and Modernization – Discovery, Planning, and Recommendation
AWS Marketplace  Link to subscribe or download	Flexera Cloud Migration and Modernization on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on premises in customer environment</li> </ul>
Compliance	<ul> <li>App Entity</li> <li>General Data Protection Regulation (GDPR)</li> <li>Health Insurance Portability and Accountability Act (HIPAA)</li> <li>Payment card industry (PCI)</li> <li>System and Organization Controls (SOC)</li> </ul>

Product overview 170

Category	Product capabilities
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

# **Business case analysis capabilities**

Category	Product capabilities
Data import	Manually
The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)	
Right-sizing, Amazon EC2 instance type  The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile and utilizati on data, application characteristics, and Amazon EC2 characteristics.	<ul> <li>vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>Application or user process CPU utilization</li> </ul>

Category	Product capabilities
Right-sizing, Amazon EC2 manufacturer	Intel-based EC2 instances
Exclusion of resource types  The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation	No
VMware Cloud on AWS analysis  The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage	Yes
Right-sizing, tenancy  The ability to make optimized recommend ations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances	Dedicated Instances
Right-sizing, attached storage  The ability to use source storage profile data, utilization data, application character istics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD	Yes

Category	Product capabilities
Choice of resource capacity allocation  The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or finetune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan	Yes
License analysis  The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS	<ul> <li>Provide EC2 license options, including BYOL and AWS license-included options</li> <li>Optimize server license cost by reducing the licensable number of CPU cores</li> <li>Optimize server license edition (for example, recommend downgrade option from Microsoft SQL Server Enterprise to Microsoft SQL Server Standard)</li> <li>Analyze replatform costs; for example, Microsoft SQL Server to Amazon Relationa l Database Service (Amazon RDS), Oracle to Amazon Aurora PostgreSQL-Compatible Edition</li> <li>Analyze database consolidation costs</li> </ul>
TCO coverage, on premises  Cost estimates over 1 year and 3 years, respectively	<ul> <li>Server and storage costs</li> <li>Software, license, and support costs</li> <li>Facility and maintenance costs (rack, infrastructure, power, and real estate)</li> </ul>

Category	Product capabilities
TCO coverage, AWS  Cost estimates over 1 year and 3 years, respectively	<ul> <li>EC2 and Reserved Instance costs</li> <li>Storage costs</li> <li>Networking costs</li> <li>VMware Cloud on AWS costs</li> <li>License costs</li> </ul>
TCO coverage, migration  Cost estimates	<ul> <li>Training costs</li> <li>Tool costs</li> <li>Labor costs (customer, partner, and AWS resources)</li> <li>AWS services costs</li> </ul>
TCO data sovereignty support  The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

<sup>&</sup>lt;sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

# **Migration Evaluator**

Last update: May 15, 2023

Migration Evaluator 174

<sup>&</sup>lt;sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>&</sup>lt;sup>3</sup> Application characteristics – CPU-intense, CPU-bursty, memory-intense, storage I/O-bound, or network-bound

<sup>&</sup>lt;sup>4</sup> Amazon EC2 characteristics

### **Product overview**

Category	Product capabilities
Product website	Migration Evaluator
Request for TCO assessment  The ability to provide a business case to make sound AWS planning and migration decisions	Submit request
Tool deployment model  Product can be SaaS-based or customer-deployed	SaaS on AWS (vendor VPC)
Compliance	General Data Protection Regulation (GDPR)
Service model	Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services
Pricing model	No charge

## **Business case analysis capabilities**

Category	Product capabilities
Data import	Manually
The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)	

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Category	Product capabilities
Right-sizing, Amazon EC2 instance type  The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile and utilizati on data, application characteristics, and Amazon EC2 characteristics.	<ul> <li>vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>CPU speed (GHz) per generation</li> <li>Synthetic workload test against processor benchmarking</li> </ul>
Right-sizing, Amazon EC2 manufacturer	<ul><li>Intel-based EC2 instances</li><li>AMD-based EC2 instances</li></ul>
Exclusion of resource types  The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation	Yes
VMware Cloud on AWS analysis  The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage	Yes
Right-sizing, tenancy  The ability to make optimized recommend ations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances	<ul> <li>Dedicated Hosts</li> <li>Dedicated Instances</li> </ul>

Category	Product capabilities
Right-sizing, attached storage  The ability to use source storage profile data, utilization data, application character istics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD	No
Choice of resource capacity allocation  The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or finetune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan	Yes
License analysis  The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS	<ul> <li>Provide EC2 license options, including BYOL and AWS license-included options</li> <li>Optimize server license cost by reducing the licensable number of CPU cores</li> <li>Analyze database consolidation costs</li> </ul>
TCO coverage, on premises  Cost estimates over 1 year and 3 years, respectively	<ul> <li>Server and storage costs</li> <li>Software, license, and support costs</li> <li>Facility and maintenance costs (rack, infrastructure, power, and real estate)</li> </ul>

Category	Product capabilities
TCO coverage, AWS  Cost estimates over 1 year and 3 years, respectively	<ul> <li>EC2 and Reserved Instance costs</li> <li>Storage costs</li> <li>Database costs</li> <li>VMware Cloud on AWS costs</li> <li>License costs</li> </ul>
TCO coverage, migration  Cost estimates	Not available
TCO data sovereignty support  The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	No

<sup>&</sup>lt;sup>1</sup> Resource profile – CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth

### **Turbonomic**

Last update: May 15, 2023

Turbonomic 178

<sup>&</sup>lt;sup>2</sup> Resource utilizations – Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month

<sup>&</sup>lt;sup>3</sup> Application characteristics – CPU-intense, CPU-bursty, memory-intense, storage I/O-bound, or network-bound

<sup>&</sup>lt;sup>4</sup> Amazon EC2 characteristics



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#### **Product overview**

Category	Product capabilities
Product website	IBM Turbonomic
Product certifications  AWS Competency Program competencies and other certifications	<ul> <li>AWS Migration and Modernization –         Business Case Analysis</li> <li>AWS Cloud Management Tools Competency</li> <li>AWS Microsoft Workloads Competency</li> <li>AWS Cloud Migration Competency</li> </ul>
AWS Marketplace  Link to subscribe or download	Turbonomic on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	Not available
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> </ul>

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Category	Product capabilities
	<ul> <li>Self-service with vendor support –         Deployment, management, and maintenan         ce can be done by customer or end-user         with the option of vendor support     </li> </ul>
Pricing model	Subscription

## **Business case analysis capabilities**

Category	Product capabilities
The ability to upload IT asset data from discovery tools (such as CMDB extract, VCenter extract, SolarWinds, or Hyper-V) or from software distribution tools (such as Microsoft SCCM)	<ul> <li>Manually</li> <li>Programmatically through the API</li> </ul>
Right-sizing, Amazon EC2 instance type  The ability to select the Amazon EC2 instance type with the lowest cost based on the source server profile and utilizati on data, application characteristics, and Amazon EC2 characteristics.	<ul> <li>vCPU and CPU core count mapping and RAM mapping between the source server or VM and target EC2 instance</li> <li>CPU and RAM utilization data over time, including maximum (peak), average (or median), standard deviation, and percentile statistics</li> <li>CPU speed (GHz) per generation</li> <li>Application or user process CPU utilization</li> <li>Synthetic workload test against processor benchmarking</li> <li>Intel x86 Hyper-Threading Technology for symmetric multiprocessing (SMP) applications</li> </ul>

Category	Product capabilities
Exclusion of resource types  The ability to exclude Amazon Elastic Compute Cloud (Amazon EC2) instance types, such as burstable T3, from TCO calculation	Yes
VMware Cloud on AWS analysis  The ability to analyze the cost of VMware Cloud on AWS by modeling VMware Cloud workload configurations, such as using Amazon Simple Storage Service (Amazon S3) for storage	Not available
Right-sizing, tenancy  The ability to make optimized recommend ations across Amazon EC2 tenancies with Dedicated Hosts or Dedicated Instances	Not available
Right-sizing, attached storage  The ability to use source storage profile data, utilization data, application character istics, and AWS storage characteristics in order to right-size attached storage, such as Amazon Elastic Block Store (Amazon EBS), with proper types, such as SSD or HDD	Yes

Category	Product capabilities
Choice of resource capacity allocation  The ability to select resource capacity allocation schemes (such as low or high resource utilization reservation) or finetune the utilization threshold (such as selecting a statistically lowered option 90th or 95th percentile) to reflect your conservative or optimistic resource allocation plan	Yes
License analysis  The ability to provide default license mapping and options in AWS with cost comparisons of bringing existing licenses versus buying licenses from AWS	Provide EC2 license options, including BYOL and AWS license-included options
TCO coverage, on premises  Cost estimates over 1 year and 3 years, respectively	<ul> <li>Server and storage costs</li> <li>Software, license, and support costs</li> </ul>
TCO coverage, AWS  Cost estimates over 1 year and 3 years, respectively	<ul><li>EC2 and Reserved Instance costs</li><li>Storage costs</li><li>License costs</li></ul>
TCO coverage, migration  Cost estimates	Not available
TCO data sovereignty support  The ability to store TCO analysis data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

- <sup>1</sup> Resource profile CPU family (x86, RISC/PowerPC, ...), number of CPU cores, memory size, number of disks, storage size, IOPS, network interfaces, bandwidth
- <sup>2</sup> Resource utilizations Time-series utilization data with peak, average or median, standard deviation, IOPS, throughput, percentile with sampling interval of 5 minutes and minimum sampling duration of 1 month
- <sup>3</sup> Application characteristics CPU-intense, CPU-bursty, memory-intense, storage I/O-bound, or network-bound

<sup>&</sup>lt;sup>4</sup> Amazon EC2 characteristics

### **Application mobility migration tools**

Migrating applications to the AWS Cloud can be streamlined through AWS and AWS Partner tools that are specifically designed for application mobility. Application mobility tools capture resource information about the host server, configuration, storage, network state, application language, and frameworks. Then, then they can provision, configure, rehost, refactor, and automatically convert the application code based on your migration and modernization approach.

Some tools provide automated lift-and-shift capabilities for a wide range of applications, and others offer specialized features for complex application migrations, including automated dependency mapping, workload replication, and cutover orchestration.

This section is intended to help you choose the most appropriate tool for your situation. If specific features or capabilities are critical to your use case, you can use the filter categories and attributes available on <a href="Application Mobility migration tools">Application Mobility migration tools</a> in order to view only the tools that match your criteria.

#### This section describes the following application mobility tools and their capabilities:

- AWS Application Migration Service
- CloudHedge OmniDeq application modernization platform
- Deloitte ATAsphere Suite
- Matilda Cloud
- RiverMeadow
- Stromasys Charon family of emulators

### **AWS Application Migration Service**

Last update: June 3, 2024

### **Product overview**

Category	Product capabilities
Product website	AWS Application Migration Service

Category	Product capabilities
Tool deployment model  Product can be SaaS-based or customer-deployed	Servers deployed on AWS (customer VPC)
Compliance	<ul> <li>Federal Risk and Authorization Management Program (FedRAMP)</li> <li>General Data Protection Regulation (GDPR)</li> <li>Health Insurance Portability and Accountab ility Act (HIPAA)</li> <li>Payment card industry (PCI)</li> <li>System and Organization Controls (SOC)</li> </ul>
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> </ul>
Pricing model	No charge for service; resource charges apply

# **Application mobility capabilities**

Category	Product capabilities
Replication method	• Agentless
The ability to support one or more of the following replication methods:	Agent-based
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	

Category	Product capabilities
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Supported sources  The hosting environments that the product can migrate applications from	<ul> <li>Google Cloud Platform</li> <li>Hyper-V</li> <li>Microsoft Azure</li> <li>Physical servers</li> <li>VMware</li> </ul>
Application data collection  The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions	Not available
Supported operating systems  Operating systems that the product can migrate	<ul><li>Linux</li><li>Windows</li></ul>
Supported targets  Resources that the product can migrate to	Amazon Elastic Compute Cloud (Amazon EC2)
Source code repository integration  Repositories that the product can analyze to support application transformation	Not available

Category	Product capabilities
Deployment integration  Services that the product integrates with to support deployment	Not available
Infrastructure as code templates  Templates that the product can generate to support application deployment	Not available
Notifications  Methods that the product can use to notify you of progress or issues	<ul><li>Logs</li><li>Metrics</li></ul>
Replication options, continuous asynchron ous replication	Available
Replication options, bandwidth consumption  The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams	Not available
Replication options, storage types  The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost	Available
Replication options, reporting progress  The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states	Available

Category	Product capabilities
Conversion options, programming languages  The ability to convert application code to other languages	Not available
Conversion options, AWS native services  The ability to convert an application for deployment to AWS Cloud native services	Not available
Conversion options, AWS managed container services  The ability to convert an application for deployment to AWS managed container services	Not available
Conversion options, AWS serverless services  The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway	Not available
Conversion options, licensing  The ability to convert licensing mechanism s. For example replace a BYOL license with an AWS license-included option	Available
Data import  The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API	Available

Category	Product capabilities
Data export  The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API	Available
Data sovereignty support  The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

### CloudHedge OmniDeq application modernization platform

Last update: June 3, 2024



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### **Product overview**

Category	Product capabilities
Product website	CloudHedge
Product certifications	Migration and Modernization ISV Competency
AWS Competency Program competencies and other certifications	

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Category	Product capabilities
AWS Marketplace	CloudHedge on AWS Marketplace
Link to subscribe or download	
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	Not available
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

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# **Application mobility capabilities**

Category	Product capabilities
<ul> <li>Replication method</li> <li>The ability to support one or more of the following replication methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	Agentless     Login-based
Supported sources  The hosting environments that the product can migrate applications from	<ul> <li>Container platforms, including Docker and Kubernetes-based</li> <li>Google Cloud Platform</li> <li>Hyper-V</li> <li>Microsoft Azure</li> <li>Physical servers</li> <li>VMware</li> </ul>
Application data collection  The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions	<ul><li>Programming language</li><li>Software versions</li><li>Environment</li></ul>
Supported operating systems  Operating systems that the product can migrate	<ul><li>IBM AIX</li><li>HP-UX</li><li>Linux</li></ul>

Category	Product capabilities
	<ul><li>Solaris</li><li>Windows</li></ul>
Supported targets  Resources that the product can migrate to	<ul> <li>Amazon Elastic Compute Cloud (Amazon EC2)</li> <li>AWS Lambda</li> <li>Amazon Elastic Container Service (Amazon ECS) or Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>Other environmental configuration, including security groups</li> </ul>
Source code repository integration  Repositories that the product can analyze to support application transformation	<ul> <li>AWS CodeCommit</li> <li>Bitbucket</li> <li>GitHub</li> <li>GitLab</li> <li>Microsoft Azure Repos</li> </ul>
Deployment integration  Services that the product integrates with to support deployment	Jenkins
Infrastructure as code templates  Templates that the product can generate to support application deployment	<ul><li>Ansible</li><li>HashiCorp Terraform</li><li>PowerShell scripts</li></ul>
Notifications  Methods that the product can use to notify you of progress or issues	<ul><li>Email</li><li>Logs</li></ul>
Replication options, continuous asynchron ous replication	Available

Category	Product capabilities
Replication options, bandwidth consumption  The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams	Available
Replication options, storage types  The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost	Available
Replication options, reporting progress  The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states	Available
Conversion options, programming languages  The ability to convert application code to other languages	.NET Framework and .NET Legacy to .NET Core 6 and .NET Core 8
Conversion options, AWS native services  The ability to convert an application for deployment to AWS Cloud native services	Available
Conversion options, AWS managed container services  The ability to convert an application for deployment to AWS managed container services	Available

Category	Product capabilities
Conversion options, AWS serverless services  The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway	Not available
Conversion options, licensing  The ability to convert licensing mechanism s. For example replace a BYOL license with an AWS license-included option	Not available
Data import  The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API	Available
Data export  The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API	Available
Data sovereignty support  The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

# **Deloitte ATAsphere Suite**

Last update: June 3, 2024

Deloitte ATAsphere Suite 194



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#### **Product overview**

Category	Product capabilities
Product website	Deloitte ATADATA
Product certifications  AWS Competency Program competencies and other certifications	Migration and Modernization ISV Competency
AWS Marketplace  Link to subscribe or download	Deloitte ATADATA on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	<ul> <li>General Data Protection Regulation (GDPR)</li> <li>Health Insurance Portability and Accountability Act (HIPAA)</li> <li>Payment card industry (PCI)</li> <li>System and Organization Controls (SOC)</li> </ul>

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Category	Product capabilities
Service model	Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services
Pricing model	Subscription

### **Application mobility capabilities**

Category	Product capabilities
Replication method	Agentless
<ul> <li>The ability to support one or more of the following replication methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Supported sources  The hosting environments that the product can migrate applications from	<ul> <li>Container platforms, including Docker and Kubernetes-based</li> <li>Google Cloud Platform</li> <li>Hyper-V</li> <li>Microsoft Azure</li> <li>Physical servers</li> <li>VMware</li> </ul>

Category	Product capabilities
Application data collection  The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions	<ul><li>Application environment</li><li>Performance data</li><li>Software versions</li></ul>
Supported operating systems  Operating systems that the product can migrate	<ul><li>IBM AIX</li><li>HP-UX</li><li>Linux</li><li>Solaris</li><li>Windows</li></ul>
Supported targets  Resources that the product can migrate to	<ul> <li>Amazon Elastic Compute Cloud (Amazon EC2)</li> <li>Amazon Elastic Container Service (Amazon ECS) or Amazon Elastic Kubernetes Service (Amazon EKS)</li> </ul>
Source code repository integration  Repositories that the product can analyze to support application transformation	Not available
Deployment integration  Services that the product integrates with to support deployment	Not available
Infrastructure as code templates  Templates that the product can generate to support application deployment	Not available

Category	Product capabilities
Notifications  Methods that the product can use to notify you of progress or issues	<ul><li>Logs</li><li>Metrics</li></ul>
Replication options, continuous asynchron ous replication	Available
Replication options, bandwidth consumption  The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams	Available
Replication options, storage types  The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost	Available
Replication options, reporting progress  The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states	Available
Conversion options, programming languages  The ability to convert application code to other languages	Not available
Conversion options, AWS native services  The ability to convert an application for deployment to AWS Cloud native services	Not available

Category	Product capabilities
Conversion options, AWS managed container services  The ability to convert an application for deployment to AWS managed container services	Not available
Conversion options, AWS serverless services  The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway	Not available
Conversion options, licensing  The ability to convert licensing mechanism s. For example replace a BYOL license with an AWS license-included option	Not available
The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API	Available
Data export  The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API	Available
Data sovereignty support  The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

### **Matilda Cloud**

Last update: June 3, 2024



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#### **Product overview**

Category	Product capabilities
Product website	Matilda Cloud
Product certifications  AWS Competency Program competencies and other certifications	Migration and Modernization ISV Competency
AWS Marketplace  Link to subscribe or download	Not available
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	Not available

Matilda Cloud 200

Category	Product capabilities
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and</li> </ul>
	maintenance require professional services
Pricing model	Subscription

# **Application mobility capabilities**

Category	Product capabilities
Replication method  The ability to support one or more of the	<ul><li>Agentless</li><li>Login-based</li></ul>
following replication methods:	
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	

Category	Product capabilities
Supported sources  The hosting environments that the product can migrate applications from	<ul> <li>Container platforms, including Docker and Kubernetes-based</li> <li>Google Cloud Platform</li> <li>Hyper-V</li> <li>Microsoft Azure</li> <li>Physical servers</li> <li>VMware</li> </ul>
Application data collection  The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions	<ul><li>Programming language</li><li>Software versions</li><li>Environment</li></ul>
Supported operating systems  Operating systems that the product can migrate	<ul><li>IBM AIX</li><li>HP-UX</li><li>Linux</li><li>Solaris</li><li>Windows</li></ul>
Supported targets  Resources that the product can migrate to	<ul> <li>Amazon Elastic Compute Cloud (Amazon EC2)</li> <li>AWS Lambda</li> <li>Amazon Elastic Container Service (Amazon ECS) or Amazon Elastic Kubernetes Service (Amazon EKS)</li> <li>Other environmental configuration, including security groups</li> </ul>

Category	Product capabilities
Source code repository integration  Repositories that the product can analyze to support application transformation	<ul> <li>AWS CodeCommit</li> <li>Bitbucket</li> <li>GitHub</li> <li>GitLab</li> <li>Microsoft Azure Repos</li> </ul>
Deployment integration	Jenkins
Services that the product integrates with to support deployment	
Infrastructure as code templates	Ansible     Headifform Townshows
Templates that the product can generate to support application deployment	<ul><li> HashiCorp Terraform</li><li> PowerShell scripts</li></ul>
Notifications	• Email
Methods that the product can use to notify you of progress or issues	• Logs
Replication options, continuous asynchron ous replication	Available
Replication options, bandwidth consumption	Available
The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams	Available
Replication options, storage types	A
The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost	Available

Category	Product capabilities
Replication options, reporting progress  The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states	Available
Conversion options, programming languages  The ability to convert application code to other languages	.NET Framework and .NET Legacy to .NET Core 6 and .NET Core 8
Conversion options, AWS native services  The ability to convert an application for deployment to AWS Cloud native services	Available
Conversion options, AWS managed container services  The ability to convert an application for deployment to AWS managed container services	Available
Conversion options, AWS serverless services  The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway	Not available
Conversion options, licensing  The ability to convert licensing mechanism s. For example replace a BYOL license with an AWS license-included option	Not available

Category	Product capabilities
Data import  The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API	Available
Data export  The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API	Available
Data sovereignty support  The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

### RiverMeadow

Last update: June 3, 2024



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RiverMeadow 205

### **Product overview**

Category	Product capabilities
Product website	RiverMeadow
Product certifications  AWS Competency Program competencies and other certifications	Migration and Modernization ISV Competency
AWS Marketplace  Link to subscribe or download	Not available
Tool deployment model  Product can be SaaS-based or customer- deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> </ul>
Compliance	System and Organization Controls (SOC)
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

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# **Application mobility capabilities**

Category	Product capabilities
<ul> <li>Replication method</li> <li>The ability to support one or more of the following replication methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	<ul> <li>Agentless</li> <li>Agent-based</li> </ul>
Supported sources  The hosting environments that the product can migrate applications from	<ul> <li>Google Cloud Platform</li> <li>Hyper-V</li> <li>Microsoft Azure</li> <li>Physical servers</li> <li>VMware</li> <li>Other – Oracle Cloud Infrastructure (OCI), IBM Cloud, Alibaba, Red Hat Virtualization (RHV), Kernel-based Virtual Machine (KVM), Nutanix AHV, Microsoft Azure Stack HCI</li> </ul>
Application data collection  The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions	<ul> <li>Software versions</li> <li>Software vulnerabilities</li> </ul>

Category	Product capabilities
Supported operating systems  Operating systems that the product can migrate	<ul><li>Linux</li><li>Windows</li></ul>
Supported targets  Resources that the product can migrate to	<ul> <li>Amazon Elastic Compute Cloud (Amazon EC2)</li> <li>Amazon Elastic Block Store (Amazon EBS), Amazon Simple Storage Service (Amazon S3)</li> </ul>
Source code repository integration  Repositories that the product can analyze to support application transformation	GitHub
Deployment integration  Services that the product integrates with to support deployment	Jenkins
Infrastructure as code templates  Templates that the product can generate to support application deployment	AWS CloudFormation
Notifications  Methods that the product can use to notify you of progress or issues	<ul><li>Email</li><li>Logs</li></ul>
Replication options, continuous asynchron ous replication	Available

Category	Product capabilities
Replication options, bandwidth consumption  The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams	Available
Replication options, storage types  The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost	Available
Replication options, reporting progress  The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states	Available
Conversion options, programming languages  The ability to convert application code to other languages	Not available
Conversion options, AWS native services  The ability to convert an application for deployment to AWS Cloud native services	Not available
Conversion options, AWS managed container services  The ability to convert an application for deployment to AWS managed container services	Not available

Category	Product capabilities
Conversion options, AWS serverless services  The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway	Not available
Conversion options, licensing  The ability to convert licensing mechanism s. For example replace a BYOL license with an AWS license-included option	Available
Data import  The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API	Available
Data export  The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API	Available
Data sovereignty support  The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

# **Stromasys Charon family of emulators**

Last update: June 3, 2024

Stromasys Charon 210



#### Notice

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#### **Product overview**

Category	Product capabilities
Product website	Stromasys Charon
Product certifications  AWS Competency Program competencies and other certifications	Migration and Modernization ISV Competency
AWS Marketplace  Link to subscribe or download	Virtualization for SPARC on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer- deployed	<ul> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> </ul>
Compliance	General Data Protection Regulation (GDPR)
Service model	<ul> <li>Self-service with vendor support –         Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support     </li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>

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Category	Product capabilities
Pricing model	Subscription

# **Application mobility capabilities**

Category	Product capabilities
Replication method	Login-based
The ability to support one or more of the following replication methods:	
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Supported sources	Physical servers with Sun SPARC, HP PA-RISC,
The hosting environments that the product can migrate applications from	DEC Alpha, VAX, and PDP-11 hardware
Application data collection	Night assettable
The ability to collect data to support application transformation, such as code from .NET legacy to .NET core, monolith-to-microservices code conversions, or server-to-container conversions	Not available

Category	Product capabilities
Supported operating systems  Operating systems that the product can migrate	<ul> <li>HP-UX</li> <li>Solaris</li> <li>Other – OpenVMS, Tru64 UNIX, MPE</li> </ul>
Supported targets	Amazon Elastic Compute Cloud (Amazon EC2)
Resources that the product can migrate to	
Source code repository integration  Repositories that the product can analyze to support application transformation	Not available
Deployment integration	Jenkins
Services that the product integrates with to support deployment	
Infrastructure as code templates  Templates that the product can generate to support application deployment	Not available
Notifications	• Email
Methods that the product can use to notify you of progress or issues	• Logs
Replication options, continuous asynchron ous replication	Not available
Replication options, bandwidth consumption  The ability to manage bandwidth consumption, such as by using throttling or parallel replication streams	Not available

Category	Product capabilities
Replication options, storage types  The ability to select storage types for both temporary and target replication disk volumes to manage performance and cost	Not available
Replication options, reporting progress  The ability to report replication progress, including success, stall, or failure states, and send events or alerts for those states	Available
Conversion options, programming languages  The ability to convert application code to other languages	Converts binary code from Sun SPARC, HP PA-RISC, DEC Alpha, VAX, and PDP-11 to x86 binary code
Conversion options, AWS native services  The ability to convert an application for deployment to AWS Cloud native services	Not available
Conversion options, AWS managed container services  The ability to convert an application for deployment to AWS managed container services	Not available
Conversion options, AWS serverless services  The ability to convert an application to a serverless architecture based on AWS Lambda and Amazon API Gateway	Not available

Category	Product capabilities
Conversion options, licensing  The ability to convert licensing mechanism s. For example replace a BYOL license with an AWS license-included option	Not available
Data import  The ability to import data from other telemetry sources and applications in common formats, such as CSV, JSON, YAML, or API	Not available
Data export  The ability to export discovered data into a usable format, such as CSV, JSON, YAML, or API	Not available
Data sovereignty support  The ability to store data on premises or at a designated location based on the data protection policies or government data sovereignty regulations	Yes

### **Data mobility migration tools**

Data mobility tools help you move large volumes of data and databases to the AWS Cloud efficiently and securely. Capabilities of these tools might include automated data validation, compression, deduplication, and bandwidth optimization. These tools are designed for different network constraints, data volumes, and security requirements.

This section is intended to help you choose the most appropriate tool for your situation. If specific features or capabilities are critical to your use case, you can use the filter categories and attributes available on Data Mobility migration tools in order to view only the tools that match your criteria.

#### This section describes the following data mobility tools and their capabilities:

- Cirata Data Migrator
- Komprise Elastic Data Migration
- Tessell DBaaS
- Vcinity Ultimate X

### **Cirata Data Migrator**

Last update: November 15, 2024



AWS Partner product descriptions and reported qualifications, including compliance, are provided by the AWS Partner and are not verified by AWS. For more information about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

#### **Product overview**

Category	Product capabilities
Product website	Cirata Data Migrator

Cirata Data Migrator 216

Category	Product capabilities
Product certifications  AWS Competency Program competencies and other certifications	Migration and Modernization ISV Competency
AWS Marketplace  Link to subscribe or download	Cirata Data Migrator on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	General Data Protection Regulation (GDPR)
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> <li>Managed service (including partner-enabled service) – Deployment, management, and maintenance require professional services</li> </ul>
Pricing model	Subscription

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Category	Product capabilities
Replication method  The ability to support one or more of the	Agent-based
<ul><li>following replication methods:</li><li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li></ul>	
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Replication source  Support for one or more of the following sources:  Block File Object Tape Other	<ul> <li>File</li> <li>Object</li> </ul>
<ul> <li>Automation</li> <li>The ability to manage a migration through scheduling controls:</li> <li>Product can be accessed, configured, and managed programmatically</li> <li>Product can schedule migration jobs</li> <li>Product can pause and resume migration s</li> </ul>	<ul> <li>Access programmatically</li> <li>Schedule migrations</li> <li>Pause and resume migration</li> <li>Schedule bandwidth throttling</li> </ul>

Category	Product capabilities
<ul> <li>Product can schedule bandwidth throttling (for example, to increase throughput during off-peak periods)</li> </ul>	
<ul> <li>Performance</li> <li>The ability to optimize performance:</li> <li>Manage bandwidth consumption, such as through throttling</li> <li>Compress data before transfer to reduce network traffic</li> <li>Run multithreaded or concurrent process for data migration tasks</li> </ul>	<ul> <li>Managed bandwidth consumption</li> <li>Multithreaded or concurrent process support</li> </ul>
<ul> <li>Security</li> <li>The ability to secure the product and data transfers:</li> <li>Encrypt data in transit from source to destination</li> <li>Support the use of customer-provided encryption keys</li> <li>Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> <li>Integrate with third-party identity providers for authentication</li> </ul>	<ul> <li>Encrypt data in transit from source to destination</li> <li>Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> <li>Integrate with third-party identity providers for authentication</li> </ul>

Category	Product capabilities
Synchronization type  The ability to support multiple data-sync hronization options:  One-time transfer  Periodic transfer  Continuous transfer	<ul> <li>One-time transfer</li> <li>Periodic transfer</li> <li>Continuous transfer</li> </ul>
<ul> <li>File-transfer options</li> <li>The ability to support file migration options:</li> <li>Track all files copied previously and compare against source data in the subsequent copy</li> <li>Copy only modified portions of a file instead of the entire file</li> <li>Support include or exclude patterns for copying files and folders with simple or regular expression patterns</li> </ul>	Changed-file tracking     Include or exclude patterns
NFS and SMB options  For Network File System (NFS) and Server Message Block (SMB) file systems, the ability to do the following:  • Preserve symbolic link  • Preserve hard link  • Move open files	<ul> <li>Preserve symbolic link</li> <li>Move open files</li> </ul>
Data validation  The ability to validate data transfers by using checksums for data integrity	Not available

Category	Product capabilities
The ability to scan and report on source system data (such as file name, type, size, usage, file timestamps, and summary statistics) and produce a pre-migration assessment report	Not available
<ul> <li>Reporting and alerting</li> <li>The ability to report on data-transfer progress and statistics:</li> <li>File and object transfer statistics</li> <li>Network statistics</li> <li>Time and duration statistics, including time taken and forecast completion</li> <li>Generation of a detailed post-migration report</li> <li>Generation of a full validation report after migration completion</li> <li>Alerting on failure scenarios, job completion</li> </ul>	<ul> <li>File and object transfer statistics</li> <li>Network statistics</li> <li>Time and duration statistics, including time taken and forecast completion</li> <li>Generation of a detailed post-migration report</li> <li>Generation of a full validation report after migration completion</li> <li>Alerting on failure scenarios, job completion</li> </ul>
Failure handling  The ability to retry transfer operations if a network failure or connectivity issue occurs	Available

Category	Product capabilities
<ul> <li>Migration approach</li> <li>Homogeneous – Source and target engine are the same</li> <li>Heterogeneous – Source and target engine are different</li> <li>The ability to convert source database engine metadata to be compatible with the target database engine</li> <li>The ability of the tool to migrate large database objects, such as LOB and binary data types</li> </ul>	<ul> <li>Homogeneous</li> <li>Heterogeneous</li> <li>Schema conversion</li> <li>Support for LOB data types</li> </ul>
The ability to migrate specific database engines, such as IBM Db2 LUW, MariaDB, Microsoft SQL Server, MySQL, Oracle, PostgreSQL, or others	<ul><li>Apache Hive</li><li>Apache Iceberg</li><li>Databricks</li><li>Snowflake</li></ul>
<ul> <li>Full load only – Perform a one-time migration from source to target</li> <li>Full load with CDC – Perform full load with change data capture (CDC) to continue replication from source to target</li> <li>CDC only – Don't perform a one-time migration, but continue to replicate data changes from the source to the target</li> </ul>	Full load with CDC

Category	Product capabilities
<ul> <li>Offline – Migrate large data sets by using offline methods or external storage devices</li> </ul>	
Data transform	Metadata only, transforms Apache Hive compatible formats to Delta Lake formats and
The ability to transform data during the migration	Snowflake formats
Migration scope	Metadata
<ul> <li>The ability to migrate metadata and application data:</li> <li>Metadata – Migrate database schema structure, including table, view, and stored procedure definition</li> <li>Table data – Migrate table data</li> </ul>	Table data
Tool architecture, high availability	Manual HA configuration
The ability support one or more of the following high availability (HA) configurations:  • Built-in HA configuration  • Manual HA configuration	
Tool sizing	Manual sizing
<ul> <li>The ability to size itself for the migration load:</li> <li>Intelligent sizing during discovery</li> <li>Manual sizing based on source database parameters, such as database size or change log</li> </ul>	

Category	Product capabilities
Data-type support	Standard
The ability to migrate standard and custom data types	
Pre-migration assessment	Available
The ability to assess and warn of potential migration issues before starting the migration task	Available
Data validation	Aveilable for all tables
The ability to compare the data at the source and the target immediately after it performs a full data load	Available for all tables
Monitoring and logging	Task logging
The ability to log and monitor the migration task and monitor tool performan ce	<ul><li> Task monitoring and alerts</li><li> Performance monitoring</li></ul>
Security	
The ability to retain data encryption (if any) from source to target	Available
Data selection	A
The ability to migrate a subset of data	Available
Migration parallelism	Available Metadata migration is defined
The ability to migrate multiple subsets of data in parallel	Available. Metadata migration is defined based on the table and database pattern. If the metadata matches the pattern, it will be migrated in parallel based on the configured thread count and system limits.

# **Komprise Elastic Data Migration**

Last update: November 15, 2024



#### Notice

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#### **Product overview**

Category	Product capabilities
Product website	Komprise Elastic Data Migration
Product certifications <u>AWS Competency Program</u> competencies and other certifications	Migration and Modernization ISV Competency
AWS Marketplace  Link to subscribe or download	Komprise Intelligent Data Management on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>Servers deployed on AWS (customer VPC)</li> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on premises in customer environment</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	System and Organization Controls 2 (SOC 2)

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Category	Product capabilities
Service model	Self-service with vendor support – Deploymen t, management, and maintenance can be done by customer or end-user with the option of vendor support
Pricing model	Subscription

Category	Product capabilities
Replication method	Agent-based
<ul> <li>The ability to support one or more of the following replication methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Replication source  Support for one or more of the following sources:  Block File Object Tape	<ul> <li>File</li> <li>Object</li> <li>Other – Any NFS, SMB, Object interface (including tape with file front-end)</li> </ul>

#### **Product capabilities** Category Other • Access programmatically **Automation** Schedule migrations The ability to manage a migration through • Pause and resume migration scheduling controls: · Schedule bandwidth throttling • Product can be accessed, configured, and managed programmatically • Product can schedule migration jobs • Product can pause and resume migration S • Product can schedule bandwidth throttling (for example, to increase throughput during off-peak periods) • Managed bandwidth consumption **Performance** Multithreaded or concurrent process The ability to optimize performance: support • Manage bandwidth consumption, such as through throttling • Compress data before transfer to reduce network traffic • Run multithreaded or concurrent process for data migration tasks

#### **Product capabilities** Category Security Encrypt data in transit from source to destination The ability to secure the product and data Store all actions requested by the user and transfers: performed by the tool in a tamper-proof • Encrypt data in transit from source to audit log destination Integrate with third-party identity providers Support the use of customer-provided for authentication encryption keys Store all actions requested by the user and performed by the tool in a tamperproof audit log • Integrate with third-party identity providers for authentication · One-time transfer Synchronization type Periodic transfer The ability to support multiple data-sync Continuous transfer hronization options: · One-time transfer Periodic transfer Continuous transfer File-transfer options · Changed-file tracking Include or exclude patterns The ability to support file migration options: Track all files copied previously and compare against source data in the subsequent copy · Copy only modified portions of a file instead of the entire file • Support include or exclude patterns for copying files and folders with simple or regular expression patterns

Category	Product capabilities
NFS and SMB options  For Network File System (NFS) and Server Message Block (SMB) file systems, the ability to do the following:  • Preserve symbolic link  • Preserve hard link  • Move open files	<ul> <li>Preserve symbolic link</li> <li>Preserve hard link</li> </ul>
Data validation  The ability to validate data transfers by using checksums for data integrity	Available
The ability to scan and report on source system data (such as file name, type, size, usage, file timestamps, and summary statistics) and produce a pre-migration assessment report	Available

Category	Product capabilities
<ul> <li>Reporting and alerting</li> <li>The ability to report on data-transfer progress and statistics:</li> <li>File and object transfer statistics</li> <li>Network statistics</li> <li>Time and duration statistics, including time taken and forecast completion</li> <li>Generation of a detailed post-migration report</li> <li>Generation of a full validation report after migration completion</li> <li>Alerting on failure scenarios, job completion</li> </ul>	<ul> <li>File and object transfer statistics</li> <li>Network statistics</li> <li>Time and duration statistics, including time taken and forecast completion</li> <li>Generation of a detailed post-migration report</li> <li>Generation of a full validation report after migration completion</li> <li>Alerting on failure scenarios, job completion</li> </ul>
Failure handling  The ability to retry transfer operations if a network failure or connectivity issue occurs	Available

Not available

### **Tessell DBaaS**

Last update: November 15, 2024



#### Notice

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about these products, contact the AWS Partner. You are encouraged to conduct your own additional due diligence before choosing to use any of the products listed.

#### **Product overview**

Category	Product capabilities
Product website	Tessell
Product certifications  AWS Competency Program competencies and other certifications	Migration and Modernization ISV Competency
AWS Marketplace  Link to subscribe or download	Tessell DBaaS on AWS Marketplace
Tool deployment model  Product can be SaaS-based or customer- deployed	<ul> <li>SaaS on AWS (vendor VPC)</li> <li>Servers deployed on AWS (customer VPC)</li> <li>SaaS or servers in other cloud provider environment</li> </ul>
Compliance	<ul> <li>International Organization for Standardi zation (ISO) 27001 and 27701</li> <li>Payment card industry (PCI)</li> <li>System and Organization Controls (SOC)</li> </ul>
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> </ul>

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Category	Product capabilities
Pricing model	Subscription

Category	Product capabilities
Replication method	Login-based
<ul> <li>The ability to support one or more of the following replication methods:</li> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Replication source  Support for one or more of the following sources:  Block File Object Tape Other	• Block • File
Automation  The ability to manage a migration through scheduling controls:	<ul><li>Access programmatically</li><li>Schedule migrations</li><li>Pause and resume migration</li></ul>

#### **Product capabilities** Category • Product can be accessed, configured, and Schedule bandwidth throttling managed programmatically Product can schedule migration jobs Product can pause and resume migration S Product can schedule bandwidth throttling (for example, to increase throughput during off-peak periods) **Performance** Managed bandwidth consumption Compression before transfer The ability to optimize performance: Multithreaded or concurrent process • Manage bandwidth consumption, such as support through throttling • Compress data before transfer to reduce network traffic • Run multithreaded or concurrent process for data migration tasks **Security** Encrypt data in transit from source to destination The ability to secure the product and data Support the use of customer-provided transfers: encryption keys • Encrypt data in transit from source to Store all actions requested by the user and destination performed by the tool in a tamper-proof • Support the use of customer-provided audit log encryption keys Integrate with third-party identity providers Store all actions requested by the user for authentication and performed by the tool in a tamperproof audit log

Data migration 233

Integrate with third-party identity

providers for authentication

Category	Product capabilities
Synchronization type  The ability to support multiple data-sync hronization options:  One-time transfer  Periodic transfer  Continuous transfer	<ul> <li>One-time transfer</li> <li>Periodic transfer</li> <li>Continuous transfer</li> </ul>
<ul> <li>File-transfer options</li> <li>The ability to support file migration options:</li> <li>Track all files copied previously and compare against source data in the subsequent copy</li> <li>Copy only modified portions of a file instead of the entire file</li> <li>Support include or exclude patterns for copying files and folders with simple or regular expression patterns</li> </ul>	<ul> <li>Changed-file tracking</li> <li>Copy for only modified portions of a file</li> </ul>
NFS and SMB options  For Network File System (NFS) and Server Message Block (SMB) file systems, the ability to do the following:  • Preserve symbolic link  • Preserve hard link  • Move open files	Not available
Data validation  The ability to validate data transfers by using checksums for data integrity	Available

Category	Product capabilities
The ability to scan and report on source system data (such as file name, type, size, usage, file timestamps, and summary statistics) and produce a pre-migration assessment report	Available
<ul> <li>Reporting and alerting</li> <li>The ability to report on data-transfer progress and statistics:</li> <li>File and object transfer statistics</li> <li>Network statistics</li> <li>Time and duration statistics, including time taken and forecast completion</li> <li>Generation of a detailed post-migration report</li> <li>Generation of a full validation report after migration completion</li> <li>Alerting on failure scenarios, job completion</li> </ul>	<ul> <li>File and object transfer statistics</li> <li>Time and duration statistics, including time taken and forecast completion</li> <li>Generation of a detailed post-migration report</li> <li>Generation of a full validation report after migration completion</li> <li>Alerting on failure scenarios, job completion</li> </ul>
Failure handling  The ability to retry transfer operations if a network failure or connectivity issue occurs	Available

Category	Product capabilities
<ul> <li>Migration approach</li> <li>Homogeneous – Source and target engine are the same</li> <li>Heterogeneous – Source and target engine are different</li> <li>The ability to convert source database engine metadata to be compatible with the target database engine</li> <li>The ability of the tool to migrate large database objects, such as LOB and binary data types</li> </ul>	<ul> <li>Homogeneous</li> <li>Support for LOB data types, including BLOB, CLOB, NCLOB, and BFILE</li> </ul>
The ability to migrate specific database engines, such as IBM Db2 LUW, MariaDB, Microsoft SQL Server, MySQL, Oracle, PostgreSQL, or others	<ul> <li>MariaDB</li> <li>Microsoft SQL Server</li> <li>Milvus</li> <li>MongoDB</li> <li>MySQL</li> <li>Oracle</li> <li>PostgreSQL</li> </ul>
<ul> <li>Full load only – Perform a one-time migration from source to target</li> <li>Full load with CDC – Perform full load with change data capture (CDC) to continue replication from source to target</li> <li>CDC only – Don't perform a one-time migration, but continue to replicate data changes from the source to the target</li> </ul>	Full load with CDC     Offline

Category	Product capabilities
<ul> <li>Offline – Migrate large data sets by using offline methods or external storage devices</li> </ul>	
Data transform	Metadata
The ability to transform data during the migration	Table data
Migration scope	Metadata
The ability to migrate metadata and application data:	Table data
<ul> <li>Metadata – Migrate database schema structure, including table, view, and stored procedure definition</li> </ul>	
<ul> <li>Table data – Migrate table data</li> </ul>	
Tool architecture, high availability	Built-in HA configuration
The ability support one or more of the following high availability (HA) configura tions:	
<ul><li>Built-in HA configuration</li><li>Manual HA configuration</li></ul>	
Tool sizing	Intelligent sizing
The ability to size itself for the migration load:	Manual sizing
<ul> <li>Intelligent sizing during discovery</li> </ul>	
<ul> <li>Manual sizing based on source database parameters, such as database size or change log</li> </ul>	

Category	Product capabilities
Data-type support  The ability to migrate standard and custom data types	<ul><li>Standard</li><li>Custom</li></ul>
Pre-migration assessment  The ability to assess and warn of potential migration issues before starting the migration task	Available
Data validation  The ability to compare the data at the source and the target immediately after it performs a full data load	Available for all tables
Monitoring and logging  The ability to log and monitor the migration task and monitor tool performan ce	<ul><li> Task logging</li><li> Task monitoring and alerts</li><li> Performance monitoring</li></ul>
Security  The ability to retain data encryption (if any) from source to target	Available
Data selection  The ability to migrate a subset of data	Available

Category	Product capabilities
Migration parallelism  The ability to migrate multiple subsets of data in parallel	Available. Multiple degrees of parallelism can be achieved when taking an RMAN backup.  After the backup is restored, the subsequen t data transfer through Oracle DataGuard happens serially in the order that the transacti ons were executed. The transfer is done this way so that the database at the destination always remains consistent and readable.

### **Vcinity Ultimate X**

Last update: November 15, 2024



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#### **Product overview**

Category	Product capabilities
Product website	Vcinity Ultimate X
Product certifications	Migration and Modernization ISV Competency
AWS Competency Program competencies and other certifications	

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Category	Product capabilities
AWS Marketplace	Vcinity Ultimate X on AWS Marketplace
Link to subscribe or download	
Tool deployment model  Product can be SaaS-based or customer-deployed	<ul> <li>Servers deployed on AWS (customer VPC)</li> <li>Servers deployed on premises in customer environment</li> </ul>
Compliance	Not available
Service model	<ul> <li>Full self-service – Deployment, managemen t, and maintenance can be done by the customer or end-user</li> <li>Self-service with vendor support – Deployment, management, and maintenan ce can be done by customer or end-user with the option of vendor support</li> </ul>
Pricing model	Subscription

Category	Product capabilities
Replication method	Login-based
The ability to support one or more of the following replication methods:	
<ul> <li>Agentless – Uses protocols or interfaces such as SNMP or WMI</li> </ul>	
<ul> <li>Agent-based – Requires installation of software on the source resources, such as Linux or Windows servers</li> </ul>	

Category	Product capabilities
<ul> <li>Login-based – Uses protocols, such as SSH and RDP, to log in to the source servers</li> </ul>	
Replication source  Support for one or more of the following sources:  Block File Object Tape Other	<ul> <li>File</li> <li>Object</li> </ul>
<ul> <li>Automation</li> <li>The ability to manage a migration through scheduling controls:</li> <li>Product can be accessed, configured, and managed programmatically</li> <li>Product can schedule migration jobs</li> <li>Product can pause and resume migration s</li> <li>Product can schedule bandwidth throttling (for example, to increase throughput during off-peak periods)</li> </ul>	Access programmatically

Category	Product capabilities
<ul> <li>Performance</li> <li>The ability to optimize performance:</li> <li>Manage bandwidth consumption, such as through throttling</li> <li>Compress data before transfer to reduce network traffic</li> <li>Run multithreaded or concurrent process for data migration tasks</li> </ul>	<ul> <li>Managed bandwidth consumption</li> <li>Compression before transfer</li> <li>Multithreaded or concurrent process support</li> </ul>
<ul> <li>Security</li> <li>The ability to secure the product and data transfers:</li> <li>Encrypt data in transit from source to destination</li> <li>Support the use of customer-provided encryption keys</li> <li>Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> <li>Integrate with third-party identity providers for authentication</li> </ul>	<ul> <li>Encrypt data in transit from source to destination</li> <li>Support the use of customer-provided encryption keys</li> <li>Store all actions requested by the user and performed by the tool in a tamper-proof audit log</li> </ul>
Synchronization type  The ability to support multiple data-sync hronization options:  One-time transfer  Periodic transfer  Continuous transfer	One-time transfer

Category	Product capabilities
<ul> <li>File-transfer options</li> <li>The ability to support file migration options:</li> <li>Track all files copied previously and compare against source data in the subsequent copy</li> <li>Copy only modified portions of a file instead of the entire file</li> <li>Support include or exclude patterns for copying files and folders with simple or regular expression patterns</li> </ul>	Not available
NFS and SMB options  For Network File System (NFS) and Server Message Block (SMB) file systems, the ability to do the following:  • Preserve symbolic link  • Preserve hard link  • Move open files	Not available
Data validation  The ability to validate data transfers by using checksums for data integrity	Available
The ability to scan and report on source system data (such as file name, type, size, usage, file timestamps, and summary statistics) and produce a pre-migration assessment report	Not available

Category	Product capabilities
<ul> <li>Reporting and alerting</li> <li>The ability to report on data-transfer progress and statistics:</li> <li>File and object transfer statistics</li> <li>Network statistics</li> <li>Time and duration statistics, including time taken and forecast completion</li> <li>Generation of a detailed post-migration report</li> <li>Generation of a full validation report after migration completion</li> <li>Alerting on failure scenarios, job completion</li> </ul>	<ul> <li>File and object transfer statistics</li> <li>Network statistics</li> <li>Time and duration statistics, including time taken and forecast completion</li> <li>Generation of a detailed post-migration report</li> <li>Generation of a full validation report after migration completion</li> <li>Alerting on failure scenarios, job completion</li> </ul>
Failure handling  The ability to retry transfer operations if a network failure or connectivity issue occurs	Available

Not available

# **Document history**

The following table describes significant changes to this guide. If you want to be notified about future updates, you can subscribe to an RSS feed.

Change	Description	Date
Initial publication	We migrated the information from an AWS web page to a	March 21, 2025
	comprehensive guide.	