



Agent Requirements

Cloud Insights

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Agent Requirements

You must [install an Agent](#) in order to acquire information from your data collectors. Before you install the Agent, you should ensure that your environment meets operating system, CPU, memory, and disk space requirements.

Component	Linux Requirement
Operating system	A computer running a licensed version of one of the following: Red Hat Enterprise Linux 7.x, 8.x 64-bit CentOS 7.x, 8.x 64-bit This computer should be running no other application-level software. A dedicated server is recommended.
Commands	The 'sudo su -' command is required for installation, running scripts, and uninstall.
CPU	4 CPU cores
Memory	16 GB RAM
Available disk space	Disk space should be allocated in this manner: /opt/netapp 25-30 GB
Network	100 Mbps to 1 Gbps Ethernet connection, static IP address, IP connectivity to all devices, and a required port to the Cloud Secure instance (80 or 443).

Please note: Cloud Insights agent and Cloud Secure agent can be installed in the same machine. However, it is a best practice to install them in separate machines. In the event that both agents are installed on the same machine, please allocate disk space as shown below:

Available disk space	50-55 GB For Linux, disk space should be allocated in this manner: /opt/netapp 25-30 GB /var/log/netapp 25 GB
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Additional recommendations

- It is strongly recommended to synchronize the time on both the ONTAP system and the Agent machine using **Network Time Protocol (NTP)** or **Simple Network Time Protocol (SNTP)**.

Cloud Network Access Rules

For **US-based** Cloud Secure environments:

Protocol	Port	Destination	Direction	Description
TCP	443	<site_name>.cs01.cloudinsights.netapp.com <site_name>.c01.cloudinsights.netapp.com <site_name>.c02.cloudinsights.netapp.com	Outbound	Access to Cloud Insights
TCP	443	gateway.c01.cloudinsights.netapp.com agentlogin.cs01.cloudinsights.netapp.com	Outbound	Access to authentication services

For **Europe-based** Cloud Secure environments:

Protocol	Port	Destination	Direction	Description
TCP	443	<site_name>.cs01-eu-1.cloudinsights.netapp.com <site_name>.c01-eu-1.cloudinsights.netapp.com <site_name>.c02-eu-1.cloudinsights.netapp.com	Outbound	Access to Cloud Insights
TCP	443	gateway.c01.cloudinsights.netapp.com agentlogin.cs01-eu-1.cloudinsights.netapp.com	Outbound	Access to authentication services

For **APAC-based** Cloud Secure environments:

Protocol	Port	Destination	Direction	Description
TCP	443	<site_name>.cs01-ap-1.cloudinsights.netapp.com <site_name>.c01-ap-1.cloudinsights.netapp.com <site_name>.c02-ap-1.cloudinsights.netapp.com	Outbound	Access to Cloud Insights
TCP	443	gateway.c01.cloudinsights.netapp.com agentlogin.cs01-ap-1.cloudinsights.netapp.com	Outbound	Access to authentication services

In-network rules

Protocol	Port	Destination	Direction	Description
TCP	389(LDAP) 636 (LDAPs / start-tls)	LDAP Server URL	Outbound	Connect to LDAP
TCP	443	SVM Management IP Address	Outbound	API communication with ONTAP
TCP	35000 - 55000	SVM data LIF IP Addresses	Inbound/Outbound	Communication with ONTAP for Fpolicy events
TCP	7	SVM data LIF IP Addresses	Outbound	Bidirectional between ONTAP and Cloud Secure. Agent pings the SVM Lifs.

Related:

See the [Event Rate Checker](#) documentation for information about sizing.

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