



# 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	<p>A computer running a licensed version of one of the following:</p> <ul style="list-style-type: none"><li>Red Hat Enterprise Linux 7.2 64-bit</li><li>Red Hat Enterprise Linux 7.2 64-bit KVM</li><li>Red Hat Enterprise Linux 7.5 64-bit</li><li>Red Hat Enterprise Linux 7.5 64-bit KVM</li><li>CentOS 7.2 64-bit</li><li>CentOS 7.2 64-bit KVM</li><li>CentOS 7.5 64-bit</li><li>CentOS 7.5 64-bit KVM</li></ul> <p>This computer should be running no other application-level software. A dedicated server is recommended.</p>
Commands	<p>The 'sudo su -' command is required for installation, running scripts, and uninstall.</p>
Docker	<p>The Docker CE package must be installed on the VM hosting the agent.</p> <p>The agent systems should always have the Docker CE package installed. Users should not install the Docker-client-xx or Docker-common-xx native RHEL Docker packages since these do not support the 'docker run' CLI format that Cloud Secure supports.</p>
CPU	2 CPU cores
Memory	16 GB RAM
Available disk space	<p>Disk space should be allocated in this manner:</p> <ul style="list-style-type: none"><li>50 GB available for the root partition</li><li>/opt/netapp 5 GB</li><li>/var/log/netapp 5 GB</li></ul>
Network	<p>100 Mbps 1 Gbps Ethernet connection, static IP address, IP connectivity to all devices, and a required port to the Cloud Secure instance (80 or 443).</p>

Component	Linux Requirement
Agent outbound URLs (port 433)	<p>https://&lt;Site ID&gt;.cs01.cloudinsights.netapp.com</p> <p>You can use a broader range to specify the tenant ID:</p> <p>https://*.cs01.cloudinsights.netapp.com/</p> <p>https://gateway.c01.cloudinsights.netapp.com</p> <p>https://agentlogin.cs01.cloudinsights.netapp.com</p>

## Cloud Network Access Rules

Protocol	Port	Destination	Direction	Description
TCP	443	<tenant id>.cs01.cloudinsights.netapp.com <tenant id>.c01.cloudinsights.netapp.com <tenant id>.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

## 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

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