



# 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<br><tenant id>.c01.cloudinsights.netapp.com<br><tenant id>.c02.cloudinsights.netapp.com | Outbound  | Access to Cloud Insights          |
| TCP      | 443  | gateway.c01.cloudinsights.netapp.com<br>agentlogin.cs01.cloudinsights.netapp.com  | Outbound  | Access to authentication services |

## In-network rules

| Protocol | Port                                 | Destination               | Direction        | Description                                 |
|----------|--------------------------------------|---------------------------|------------------|---|
| TCP      | 389(LDAP)<br>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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