Install Keystone Collector

Keystone

NetApp
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Deploy Keystone Collector on VMware vSphere systems

Deploying Keystone Collector on VMware vSphere systems includes downloading the OVA template, deploying the template by using the **Deploy OVF Template** wizard, verifying the integrity of the certificates, and verifying the readiness of the VM.

Deploying the OVA template

Follow these steps:

Steps

1. Download the OVA file from this link and store it on your VMware vSphere system.
2. On your VMware vSphere system, navigate to the **VMs and Templates** view.
3. Right click on the required folder for the virtual machine (VM) (or data center, if not using VM folders) and select **Deploy OVF Template**.
4. On *Step 1* of the **Deploy OVF Template** wizard, click **Select and OVF template** to select the downloaded `KeystoneCollector-latest.ova` file.
5. On *Step 2*, specify the VM name and select the VM folder.
6. On *Step 3*, specify the required compute resource that is to run the VM.
7. On *Step 4: Review details*, verify the correctness and authenticity of the OVA file.

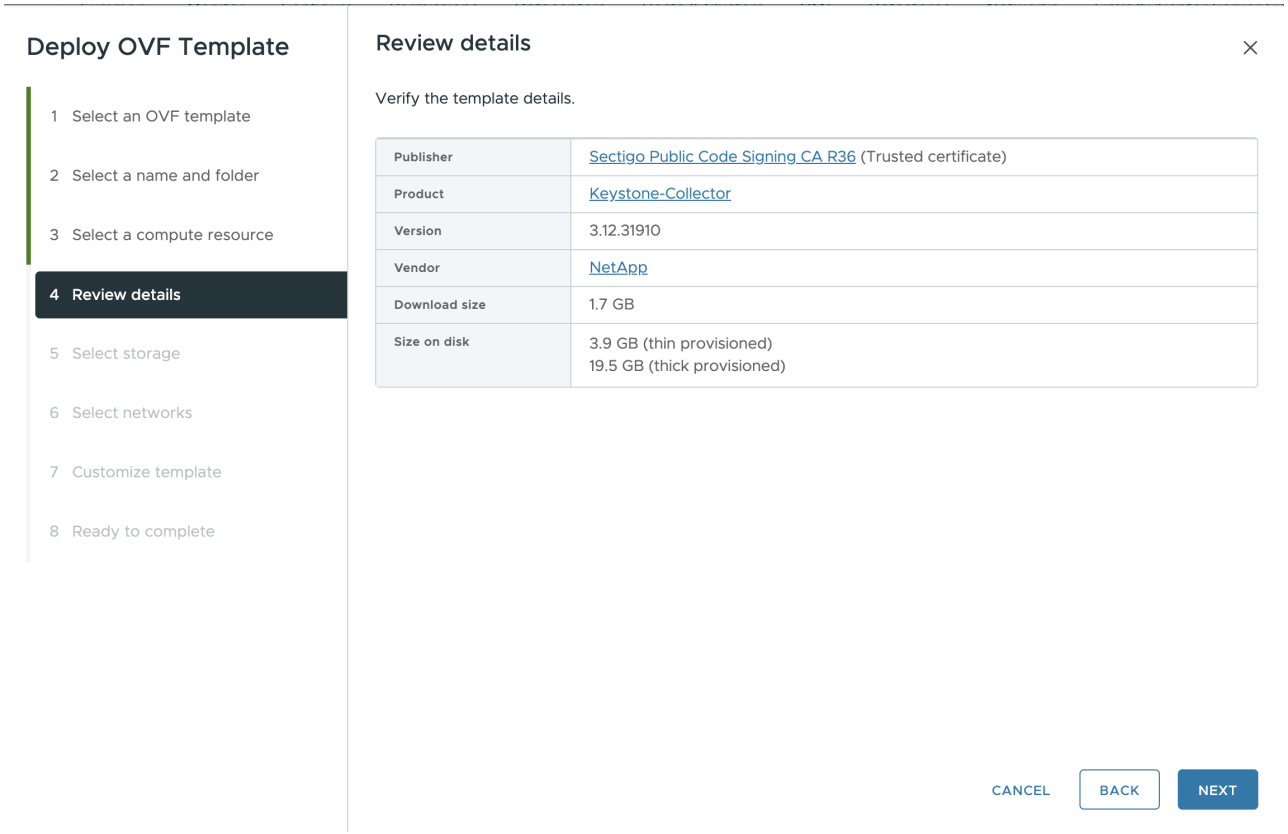
   The vCenter root trust store contains only VMware certificates. NetApp uses Entrust as a certifying authority, and those certificates need to be added to the vCenter trust store.

   a. Download the code-signing CA certificate from Sectigo here.

   b. Follow the steps in the `Resolution` section of this knowledge base (KB) article: https://kb.vmware.com/s/article/84240.

   > For vCenter versions 7.x and earlier, you must update vCenter and ESXi to version 8.0 or later. Earlier versions are no longer supported.

   When the integrity and authenticity of the Keystone Collector OVA are validated, you can see the text `(Trusted certificate)` with the publisher.



8. On *Step 5* of the **Deploy OVF Template** wizard, specify the location for storing the VM.
9. On *Step 6*, select the destination network for the VM to use.
10. On *Step 7 Customize template*, specify the initial network address and password for the admin user account.

> The admin password is stored in a reversible format in vCentre and should be used as a bootstrap credential to gain initial access to the VMware vSphere system. During the initial software configuration, this admin password should be changed. The subnet mask for the IPv4 address should be supplied in CIDR notation. For example, use the value of 24 for a subnet mask of 255.255.255.0.

11. On *Step 8 Ready to complete* of the **Deploy OVF Template** wizard, review the configuration and verify that you have correctly set the parameters for the OVA deployment.

After the VM has been deployed from the template and powered on, open an SSH session to the VM and log in with the temporary admin credentials to verify that the VM is ready for configuration.

Initial system configuration

Perform these steps on your VMware vSphere systems for an initial configuration of the Keystone Collector servers deployed through OVA:

> On completing the deployment, you can use the Keystone Collector Management Terminal User Interface (TUI) utility to perform the configuration and monitoring activities. You can use various keyboard controls, such as the Enter and arrow keys, to select the options and navigate across this TUI.

1. Open an SSH session to the Keystone Collector server. When you connect, the system will prompt you to update the admin password. Complete the admin password update as required.
2. Log in using the new password to access the TUI. On login, the TUI appears.

   Alternatively, you can launch it manually by running the `keystone-collector-tui` CLI command.
3. If required, configure the proxy details in the **Configuration > Network section** on the TUI.
4. Configure the system hostname, location, and NTP server in the **Configuration > System** section.
5. Update the Keystone Collectors using the **Maintenance > Update Collectors** option. After the update, restart the Keystone Collector management TUI utility to apply the changes.

Install Keystone Collector on Linux systems

You can install the Keystone Collector software on a Linux server using an RPM or a Debian package. Follow the installation steps depending on your Linux distribution.

Using RPM

1. SSH to the Keystone Collector server and elevate to `root` privilege.
2. Import the Keystone public signing signature:
   `# rpm --import https://keystone.netapp.com/repo1/RPM-GPG-NetApp-Keystone-20251020`
3. Ensure that the correct public certificate has been imported by checking the fingerprint for Keystone Billing Platform in the RPM database:
   `# rpm -qa gpg-pubkey --qf '%{Description}'|gpg --show-keys --fingerprint`
   The correct fingerprint looks like this:
   `9297 0DB6 0867 22E7 7646 E400 4493 5CBB C9E9 FEDC`
4. Download the `keystonerepo.rpm` file:
   `curl -O https://keystone.netapp.com/repo1/keystonerepo.rpm`
5. Verify the authenticity of the file:
   `rpm --checksig -v keystonerepo.rpm`
   A signature for an authentic file looks like this:
   `Header V4 RSA/SHA512 Signature, key ID c9e9fedc: OK`
6. Install the YUM software repository file:
   `# yum install keystonerepo.rpm`
7. When the Keystone repo is installed, install the keystone-collector package through the YUM package manager:

   ```
   # yum install keystone-collector
   ```

   For Red Hat Enterprise Linux 9, run the following command to install the keystone-collector package:
   `# yum install keystone-collector-rhel9`

Using Debian

1. SSH to the Keystone Collector server and elevate to `root` privilege.
   `sudo su`
2. Download the `keystone-sw-repo.deb` file:
   `curl -O https://keystone.netapp.com/downloads/keystone-sw-repo.deb`
3. Install the Keystone software repository file:
   `# dpkg -i keystone-sw-repo.deb`
4. Update the package list:
   `# apt-get update`
5. When the Keystone repo is installed, install the keystone-collector package:
   `# apt-get install keystone-collector`

On completing the installation, you can use the Keystone Collector Management Terminal User Interface (TUI) utility to perform the configuration and monitoring activities. You can use various keyboard controls, such as the Enter and arrow keys, to select the options and navigate across this TUI. See Configure Keystone Collector and Monitor system health for information.

Automatic validation of Keystone software

The Keystone repository is configured to automatically validate the integrity of Keystone software so that only valid and authentic software is installed at your site.

The Keystone YUM repository client configuration provided in `keystonerepo.rpm` makes use of enforced GPG checking (`gpgcheck=1`) on all software downloaded through this repository. Any RPM downloaded through the Keystone repository that fails signature validation is prevented from being installed. This functionality is used in the scheduled auto-update capability of Keystone Collector to ensure only valid and authentic software is installed at your site.

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