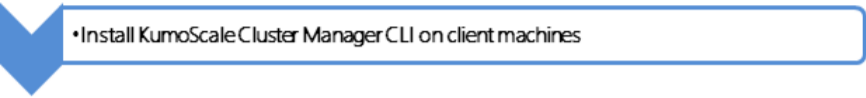


Install the KumoScale Cluster Manager CLI

The KumoScale Cluster Manager CLI may be installed on a client machine independent of the storage node platform.

The [Introduction to the KumoScale Cluster Manager CLI](#) contains complete information on the KumoScale Cluster Manager CLI.



To install the KumoScale Cluster Manager CLI on a client machine, complete the following steps for your Operating System.

Installation Requirements

You will need the following to successfully install the KumoScale Cluster Manager CLI:

- **Operating System:** The Cluster Manager CLI has been tested on physical machines running Centos 7/8 or Ubuntu 20.04 LTS.
- **Language** Python 3.6 with **Packages:**
 - epel-release
 - python3-pip
 - python3

Complete the following steps for your Operating System.

- [RedHat \(RHEL\), CentOS, Oracle Linux \(OL\)](#)
- [Ubuntu](#)

Installing the KumoScale Cluster Manager CLI on RedHat (RHEL), CentOS, Oracle Linux (OL) running Python™:

Complete the steps below to install the KumoScale Cluster Manager CLI on RHEL, CentOS, or OL running Python.

1. Verify that the following is installed on your client:
 - epel-release
 - python3-pip
 - python3
2. Download the KumoScale CLI RPM package
ks-cluster-manager-cli-<version>.x86_64.rpm ,found in KumoScale_ClusterCLI, to your local directory.
3. Execute the following commands:

```
rpm -ivh ks-cluster-manager-cli-<version>.x86_64.rpm
pip3 install python3-kubernetes
```

4. Copy your Kubernetes configuration file to the machine where the Cluster Manager CLI is installed. You will reference the configuration file to start the Cluster Manager CLI as documented in [Accessing and Using the Cluster Manager CLI](#). Verify that the KumoScale Cluster Manager CLI is installed correctly by running the following:

```
ks_cluster_manager -K <path to the Kubernetes configuration file>
```

You will get the CLI> prompt. At this point you can enter a CLI command or simply exit. For example:

```
CLI> help
CLI> exit
```

For information a description of all the CLI commands available, see [KumoScale Cluster Manager CLI Command Reference](#)

Installing the KumoScale Cluster Manager CLI on Ubuntu running Python:

Complete the steps below to install the KumoScale Cluster Manager CLI on Ubuntu 20.04 running Python 3.8.

1. Install the following on your client:
 - epel-release
 - python3-pip
 - python3
2. Download the KumoScale Cluster Manager CLI DEB package **ks-cluster-manager-cli-<version>.x86_64.deb** found in KumoScale_ClusterCLI to your local directory.
3. Execute the following commands:

```
sudo dpkg -i ks-cluster-manager-cli-<version>.x86_64.deb
```

```
sudo apt-get install -y python3-kubernetes
```

4. Copy your Kubernetes configuration file to the machine where the Cluster Manager CLI is installed. You will reference the configuration file to start the Cluster Manager CLI as documented in [Accessing and Using the Cluster Manager CLI](#). Verify that the KumoScale Cluster Manager CLI is installed correctly by running the following:

```
ks_cluster_manager -K <path to the Kubernetes configuration file>
```

You will get the CLI> prompt. At this point you can enter a CLI command or simply exit. For example:

```
CLI> help
CLI> exit
```

For information a description of all the CLI commands available, see [KumoScale Cluster Manager CLI Command Reference](#)

(optional) Replacing the KumoScale CLI Key Store

To replace the key used with the KumoScale Cluster Manager CLI with your own:

1. Create your own Privacy Enhanced Mail (PEM) file as detailed in the KumoScale User Guide. Give it the name **pem**.
2. Replace the existing file in **/usr/local/CLI_managed/ ssdtoolbox.pem** with your own pem file of the same name created in step 1.

Next: [Set up Storage Nodes for Provisioning](#)
