

## Step 5 for All Nodes: Set up the Node for Remote Access

This page explains Step 5 of installing KumoScale for Appliance Mode in a multi-node environment.

•Install and Configure the Node (Control Plane Endpoint/Additional Master/Worker Node)

Step 1. Determine Installation Settings.

Step 2. Configure the boot order.

Step 3. Prepare the Installation Files.

Step 4. Install KumoScale software.

Step 5.Set up the Node for Remote Access.

Step 6 Configure the Node

All post-install actions must be done by logging into the KumoScale storage cluster from a remote host that supports Kubernetes [kubectl](#). (See [Installation Requirements](#) for information on how to set up this host.) Hence, to complete the configuration you will need to set up a remote host for access to the Kumoscale cluster. The next step depends on which node you are configuring. If you are configuring **The First (master) Node**, you will need to set up the Administrator account admin\_cli for the KumoScale cluster. Proceed to Set up the Administrator Account on the Storage Cluster for instructions.

**Any other node for the first time**, the admin\_cli account should already be created. You then need to associate with the KumoScale cluster as explained in Set up your Remote Host to Access the KumoScale Storage Cluster.

### Set up the Administrator Account on the Storage Cluster

When you install KumoScale software on the first node, the first master of the storage cluster, you will need to set up the KumoScale Administrator account, admin\_cli. Follow these steps:

1. From your remote host enter:

```
ssh admin_cli@<VIP for the Master>
```

2. When asked for a password, enter:

```
admin
```

This is the default password so you will need to reset it in the next step.

3. You will be prompted for a new password for admin\_cli. Set the password according to operating system requirements.
4. Confirm the new password.
5. You will get a message about re-opening the session.
6. Log back in using the new password.

You are now ready to set up your remote host to access the KumoScale storage cluster as explained in Set up your Remote Host to Access the KumoScale Storage Cluster.

### Set up your Remote Host to Access the KumoScale Storage Cluster

Perform the following steps to set up your remote host to access the cluster:

1. On your remote host, create a folder called .kube to hold configuration information.  
For example:

```
mkdir -p ~/.kube
```

2. Log into the master of the KumoScale storage cluster as admin\_cli with the following:

```
ssh admin_cli@<VIP for the Master>
```

You will now be at the CLI> prompt.

3. To proceed with configuration and other activities, generate a token by entering:

```
CLI> generate-token --name admin --password admin
```

4. A token string will be returned allowing you access to KumoScale CLI commands for 1 hour. You can change the expiration time by using the optional parameter expiration and providing a time in hours. More information on using tokens for authentication is available in the [KumoScale User Guide](#).

5. You may want to collect information on the server for use when configuring nodes:  
**show-mgmt-ips** will return the IP address and name. For example,

```
CLI> show-mgmt-ips
Interface ID: 331 Name: kx0
```

You can use the value of name, kx0, returned above, to get details. For example,

```
CLI> show-mgmt-ips --name kx0:
Interface ID:      331
Interface Name:    kx0
Mode:              DHCP
IP address ID:     332
IP Address:        192.0.2.0
Subnet:            255.255.0.0
```

6. You need to enable the remote host to configure the Kubernetes cluster and KumoScale storage nodes. This is done using the get-kubeconfig command which is documented in the [KumoScale CLI Guide](#). to display the information and then copy the results into a file:  
Enter the command below to display the information

```
CLI> get-kubeconfig --show-to-screen
```

7. Create a new file called config and copy the results from the above into the file.

8. Verify that you can see information on the KumoScale storage cluster by entering:

```
kubectl cluster-info
```

Now your remote host knows how to access the KumoScale cluster. Going forward you can log into the storage cluster using only the steps listed in *Logging into the KumoScale Storage Cluster from a Known Remote Host*.

### Logging into the KumoScale Storage Cluster from a Known Remote Host

To log into the KumoScale storage cluster from a remote host that is already known to it, provide the password and token information when prompted as shown in the steps below:

1. Log into the master of the KumoScale storage cluster as admin\_cliwith:

```
ssh admin_cli@<VIP for the Master>
```

You will now be at the CLI> prompt.

2. Generate a token to enable access to the cluster:

```
CLI> generate-token --name admin --password admin
```

The log-in above allows access to KumoScale CLI commands for one (1) hour. You can change the expiration time by using the optional parameter expiration and providing a time in hours. More information on using tokens for authentication is available in the [KumoScale User Guide](#).

Once you have successful access your node from the remote host, you are ready to configure your node.

**Next:** [Step 6. Configuring the Node](#)

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