

Download KumoScale Software for Managed Mode and Prepare for Installation

This section explains how to download KumoScale storage node software for Managed Mode from KIOXIA and prepare your machines for installation.

Step 1. Before you Begin

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Step 2. Download and unzip the software onto a local machine.

Step 3. Create Containers for KumoScale Operators and Provisioner

Step 4. Install Optional Components

Before you begin downloading software you will need to confirm

1. You have received an email from KIOXIA with a

- Link to the FlexNet™ Operations site from which to download KumoScale software
- Login credentials, usually an Activation ID
- Entitlement certificate with order information
- Token to use for authentication
- KumoScale license

2. You have set up a local binary image repository so that you can load container images needed for local access.

The KumoScale Operator and Provisioner are delivered as binary containers for Kubernetes and enable you to configure and manage provisioning using KumoScale operators with Custom Resource files. You will need a local registry to complete the installation of these components. For an example on how to set up such a repository using Docker, see <https://www.devonblog.com/containers/how-to-setup-your-private-docker-registry/>.

Step 2. Download and Unzip KumoScale Software onto a local machine.

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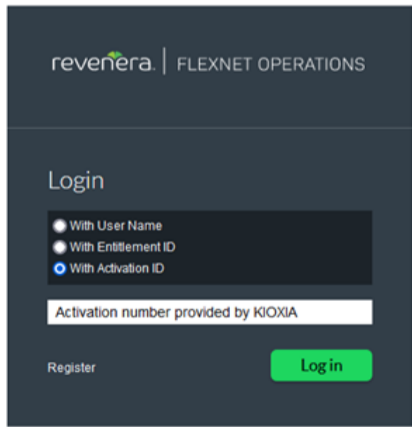
Step 3. Create Containers for KumoScale Operators and Provisioner

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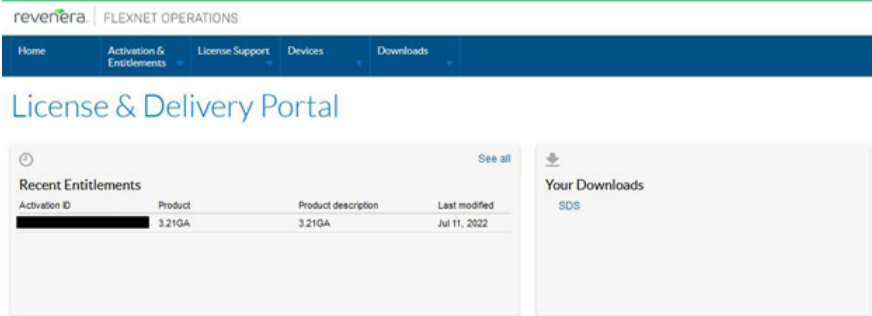
Complete the steps below to extract and prepare the software needed to complete the installation of all KumoScale components.

1. Click on the link to the Flexnet Operations site. The **Login** screen will appear:

- Select the **With Activation ID** button,
- Enter the **Activation ID** provided in the email, and
- Press **Log in**

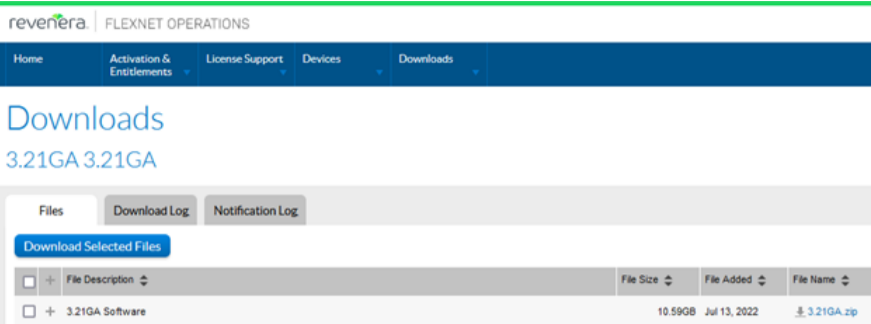


2. The **License & Delivery Portal** on the Home screen will appear showing any previous entitlements (e.g., KumoScale 3.21) and other information about your account. In the **Your Downloads** box on the upper right, select **SDS**:



3. The **Download Packages** screen will appear showing available downloads. Select the **Files** tab to display all the downloads available. The screen below shows 3.21, but you should see 3.22GA.

- Select **22GA Software** and
- Press Download Selected Files.



The Download Manager will bundle the software and download 3.22GA.zip to the directory you prefer.

4. Unzip the files. The installation steps will use software in the following four (4) folders. These are listed in the order in which they are referenced in the documentation:

- **KumoScale_Storage_Node_Managed**, KumoScale software for storage nodes.
- **KumoScale_Operator**, KumoScale Operators for Kubernetes
- **KumoScale_Provisioner**, KumoScale Provisioner for provisioning your Kubernetes cluster
- **KumoScale_ClusterCLI**, KumoScale Cluster Manager CLI for client machines

You may proceed with installing the storage node software as documented in [Install KumoScale on Storage Nodes Machines](#). But you will not be able to proceed with installation of KumoScale Operators, Provisioner, or Cluster Manager CLI until you have completed step 3 this section.

Step 3. Create Containers for KumoScale Operators and Provisioner

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To install KumoScale Operators and Provisioner, you need to convert the Operator and Provisioner gz files,

- **KumoScale_Operator/ks-install-operator/ks-install-operator-v3.22-<version>.tar.gz**
- **KumoScale_Operator/ks-config-operator/ks-config-operator-v3.22-<version>.tar.gz,**
- **KumoScale_Provisioner/Kubernetes/consul-<version>.tar.gz** , and
- **KumoScale_Provisioner/Kubernetes/provisioner-v3.22-<version>.tar.gz**

into Kubernetes containers by completing the following steps. These steps can be done on a Virtual Machine (VM) or an administrative node. We recommend that you do NOT do this on a storage node.

1. Log into your local private registry. For example, using Docker:

```
docker login <yourlocalregistry>
username: <>
password: <>
```

2. We will first create the ks-install-operator container image. Use gunzip to create a tar file from **ks-install-operator-v3.22-<version>.tar.gz**. For example, from the KumoScale_Operator directory:

```
gunzip ks-install-operator/ks-install-operator-v3.22-<version>.tar.gz
```

You should now have the file:

KumoScale_Operator/ks-install-operator/ks-install-operator-v3.22-<version>.tar

3. Create the container image for ks-install-operator. For example, using Docker, from the KumoScale_Operator/ks-install-operator directory:

Load, tag, and push the image

```
docker load -i ks-install-operator-v3.22-<version>.tar
docker image tag registry.local:5000/ks-install-operator-v3.22-<version> <yourlocalregistry>/ks-install-operator-v3.22-<version>
docker push <yourlocalregistry>/ks-install-operator-v3.22-<version>
```

4. Repeat steps 2 through 3 for

- ks-config-operator starting with ks-install-operator-v3.22-<version>. tar.gz
- provisioner starting with provisioner-v3.22-<version>.tar.gz
- consul starting with consul-<version>.tar.gz

Step 4. Install Optional Components

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Depending on your deployment approach, you will want to install one or more of the following according the instructions listed:

- **Kubernetes CSI Drivers:** Repeat Step 3 to create the container from **Kubernetes_CSI/ks-csi-plugin-v3.22-<version>.tar.gz**
- **KumoScale Ansible:** Extract the files in KumoScale_Ansible with:

```
tar -xvf kumoscale-ansible-3.22-<version>.tar
```

- KumoScale for OpenStack, Extract the files in OpenStack/Yoga with:

```
tar -xvf install_kioxia_cinder_3.22-<version>. tar
tar -xvf install_kioxia_nvmeof_3.22-<version>. tar
```

Next Installation Step: [Install KumoScale on Storage Nodes Machines.](#)