Install using OpenShift certified operator

Trident

NetApp
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Install using OpenShift certified operator

Install Trident using OpenShift OperatorHub

If you use Red Hat OpenShift, you can install NetApp Trident using the Red Hat certified operator. Use this procedure to install Trident from the Red Hat OpenShift Container Platform.

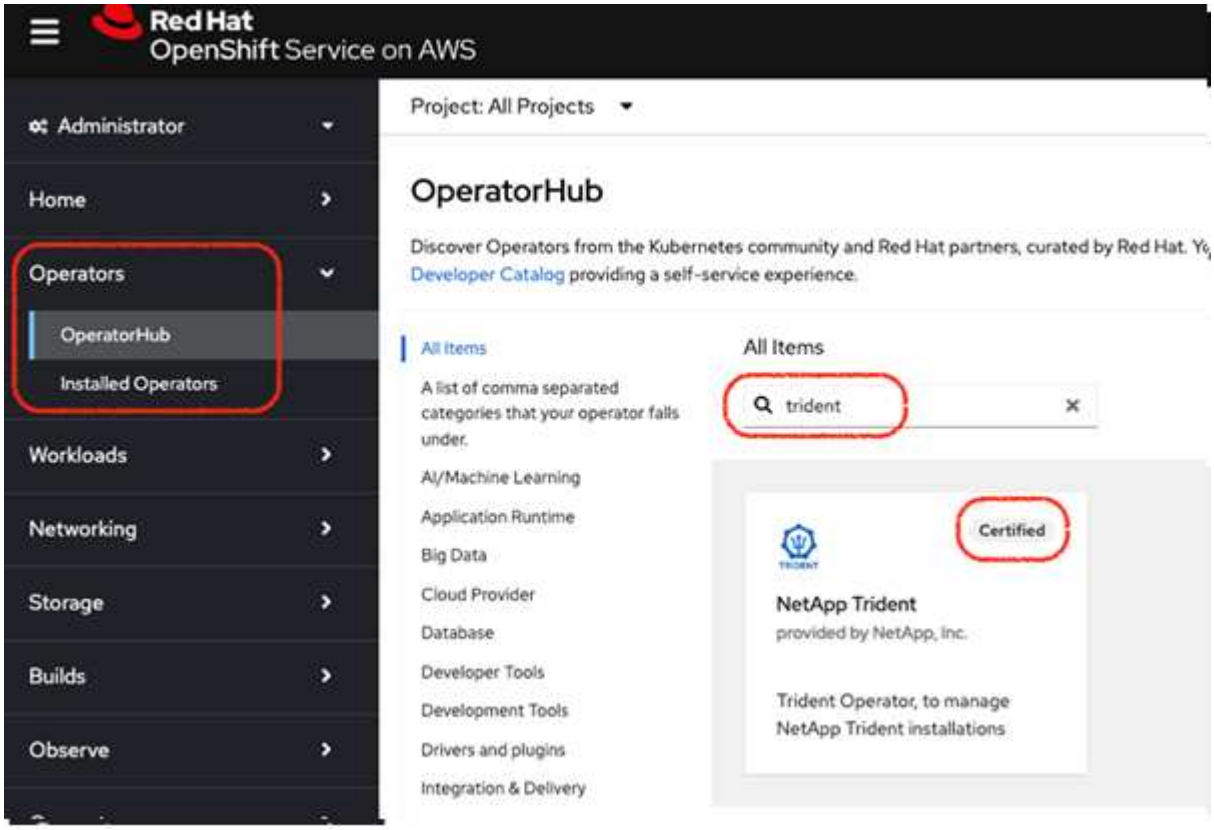
Before you begin

Before you begin the installation, prepare your environment for Trident installation.

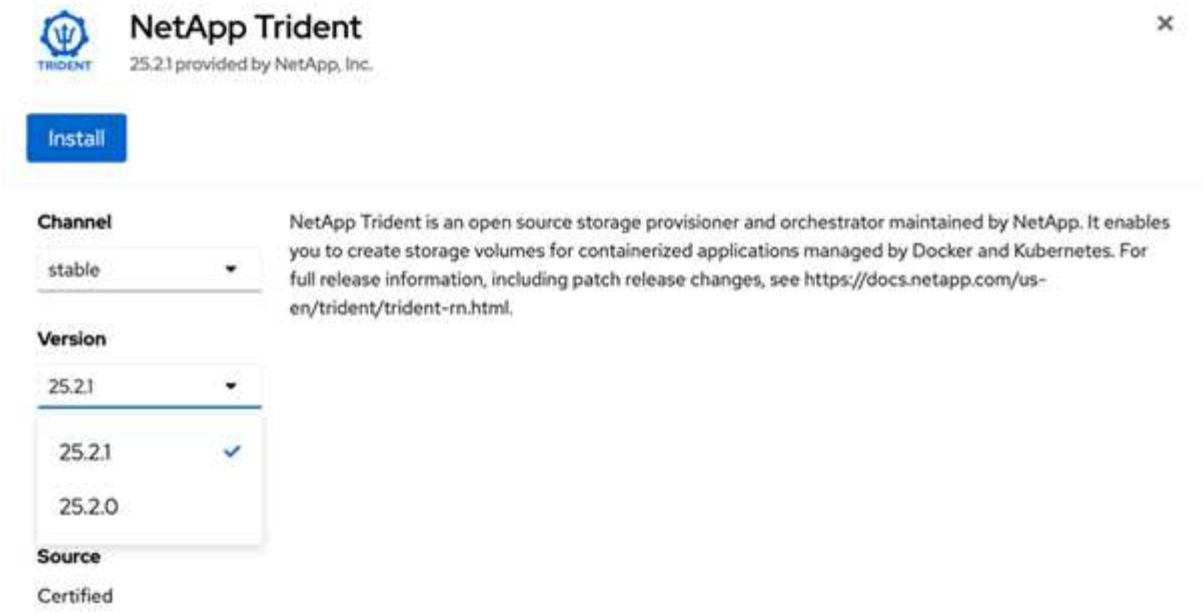
Find and install the Trident operator

Steps

1. Navigate to OpenShift OperatorHub and search for NetApp Trident.

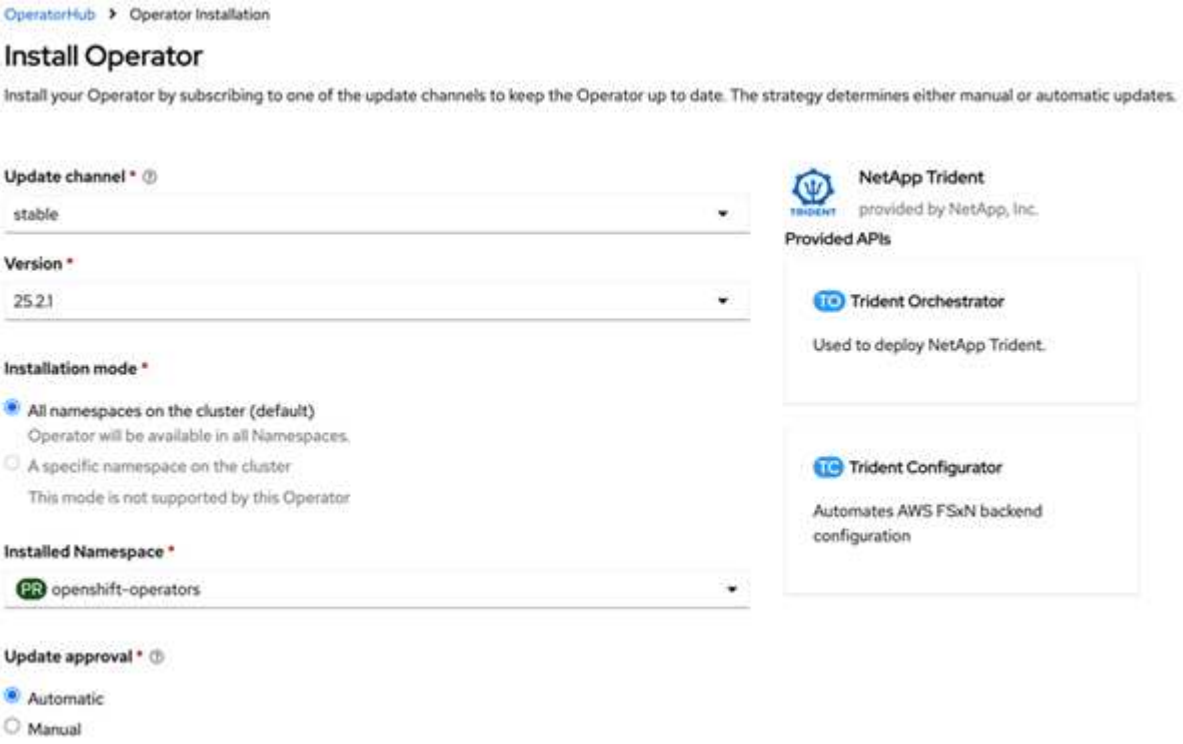


2. Click **NetApp Trident** to open the installation settings.
3. Select the required options and click **Install** to open the Operator configuration.

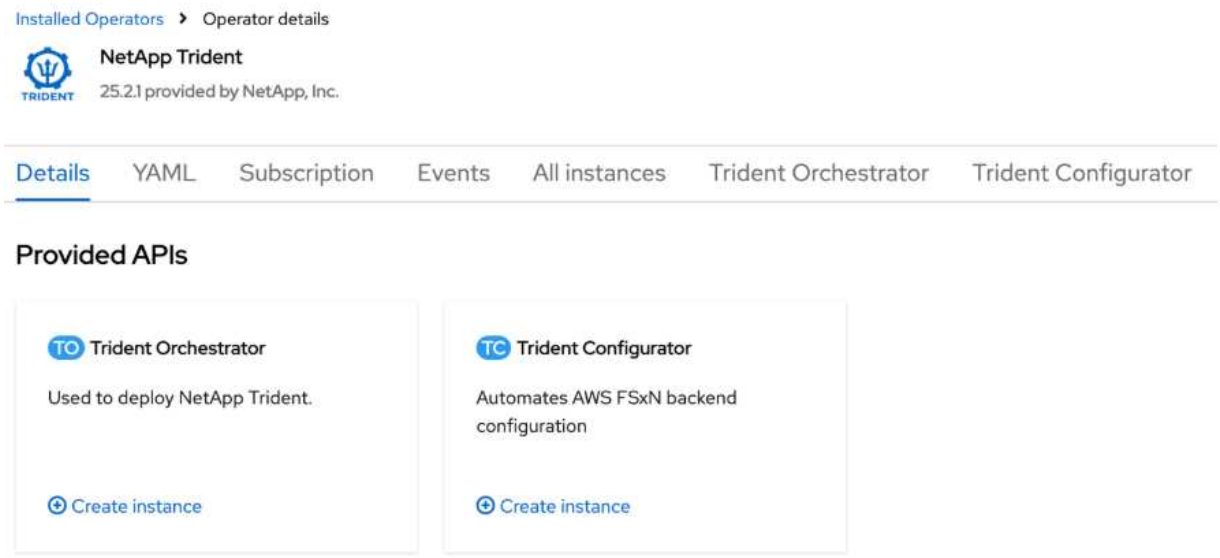


Make sure that you select the most recent Operator version.

4. Retain all the parameters as they are and click **Install**.



5. Click **View Operator** to view the details of the Operator.



6. Click **YAML view** and paste the following in the form:

```
apiVersion: trident.netapp.io/v1
kind: TridentOrchestrator
metadata:
  name: trident
  namespace: openshift-operators
spec:
  IPv6: false
  debug: false
  nodePrep:
  - iscsi
  imageRegistry: ''
  k8sTimeout: 180s
  namespace: trident
  silenceAutosupport: false
```

The UI provides a default example. You can edit it directly instead of copying a full configuration.

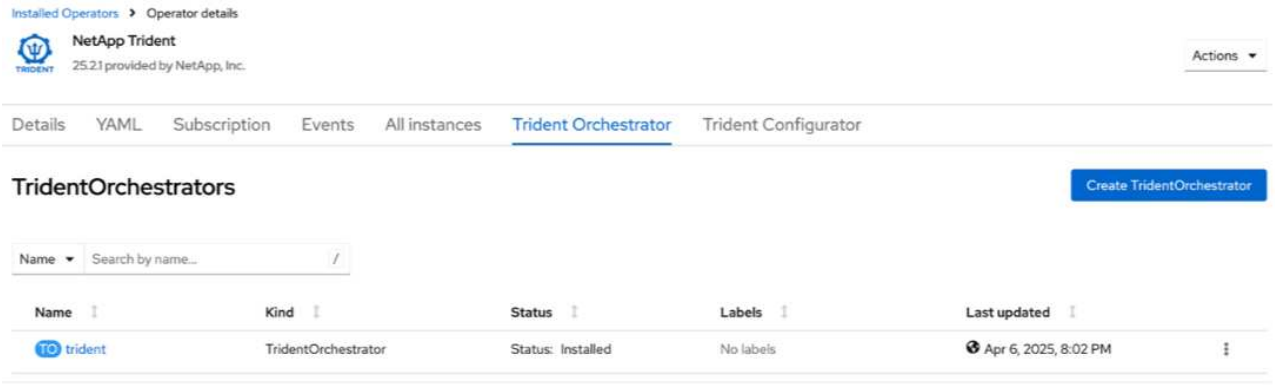
Optional: Enable concurrency

To enable concurrency, add the following field to the spec:

```
enableConcurrency: true
```

- Red Hat Enterprise Linux CoreOS (RHCOS) does not have iSCSI enabled and configured.
- You can add the `nodePrep` parameter to configure and enable both iSCSI and Multipath services on all OpenShift worker nodes.
- Beginning with OpenShift 4.19, the minimum Trident version supported for this feature is 25.06.1.

1. Click **Create**; the Trident Orchestrator will be fully installed.



Uninstall Trident operator

Steps

1. Select the Trident operator from the list of installed operator.
2. Select if you want to delete all the operand instance from the operator.

If you do not select the **Delete all operand instances from this operator** checkbox, Trident will not be uninstalled.

3. Click **Uninstall**.

Switch to the OpenShift certified Trident operator

You can switch to the Red Hat OpenShift certified Trident operator from the community operator, a Helm-based installation, or a manually deployed operator. The process for each method involves uninstalling the existing operator and then installing the certified operator using the OperatorHub.

Before you begin

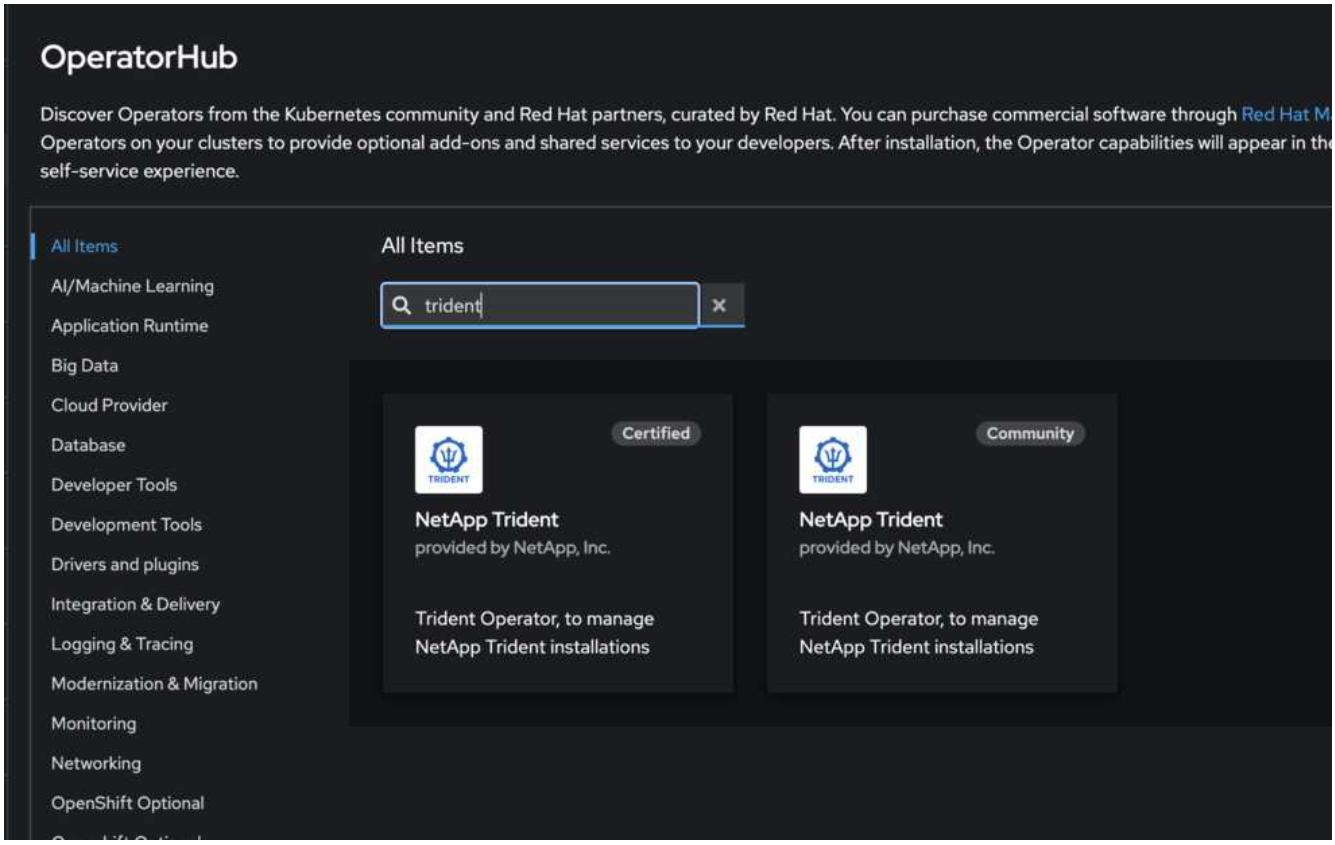
Before you begin the installation, prepare your environment for Trident installation.

Do not delete the `TridentOrchestrator` custom resource (CR) during the uninstall process. The `TridentOrchestrator` CR preserves your backend and storage class configuration, which is required after you install the certified operator.

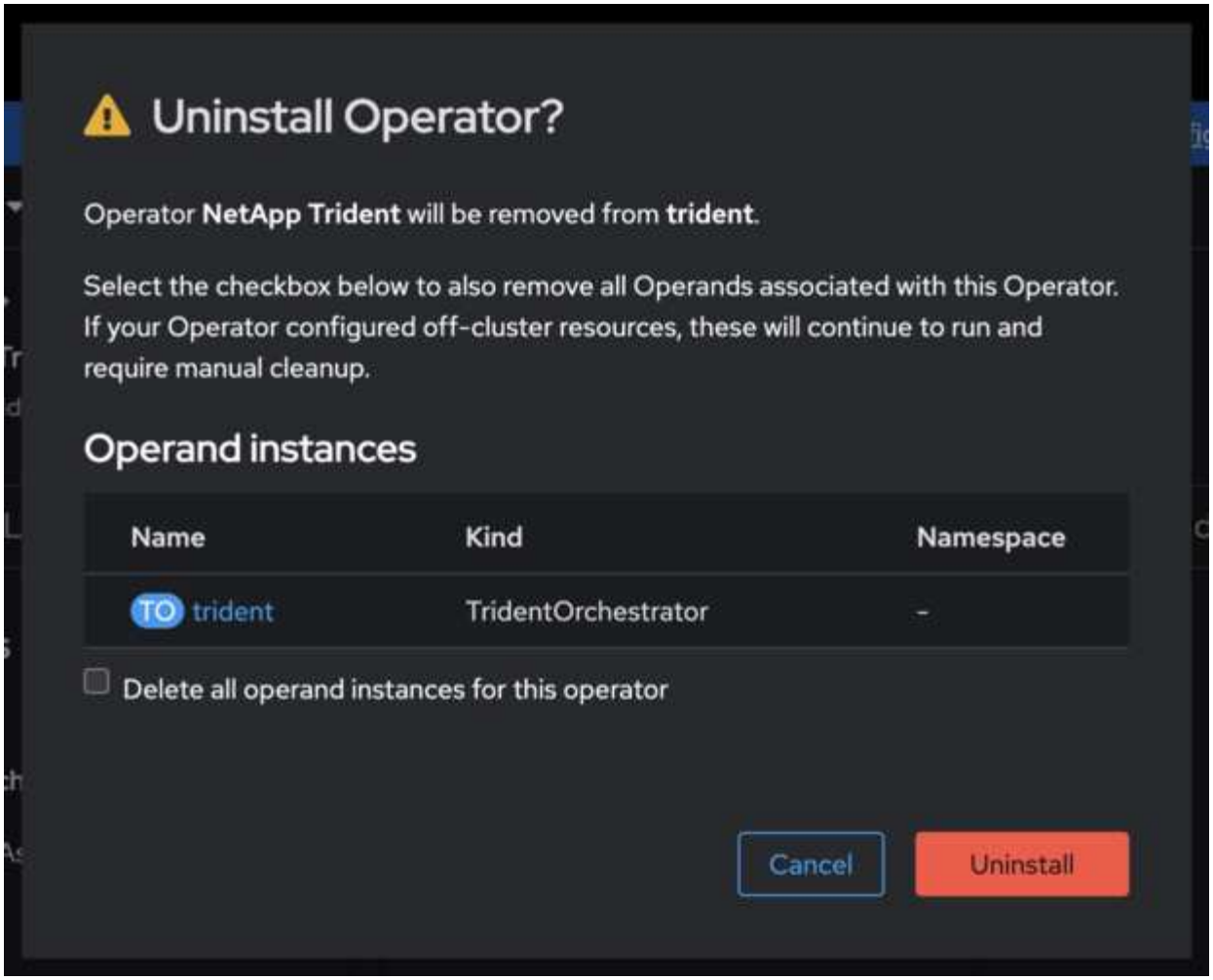
Switch from the community operator

Steps

1. Use the OpenShift console to navigate to the OperatorHub.



2. Find the NetApp Trident community operator.



Do not select **Delete all operand instances from this operator**.

3. Click **Uninstall**.
4. After the uninstall completes, proceed to Install the OpenShift certified operator.

Switch from a Helm-based operator installation

Steps

1. List the Helm release for your Trident installation:

```
helm ls -n trident
```

2. Uninstall the Helm release:

```
helm uninstall <release-name> -n trident
```

3. After the uninstall completes, proceed to Install the OpenShift certified operator.

Switch from a manually deployed operator

If you installed Trident by manually deploying the operator using a `bundle.yaml` from the installer package, remove it by deleting the same manifest.

Steps

1. Delete the operator deployment using the bundle manifest:

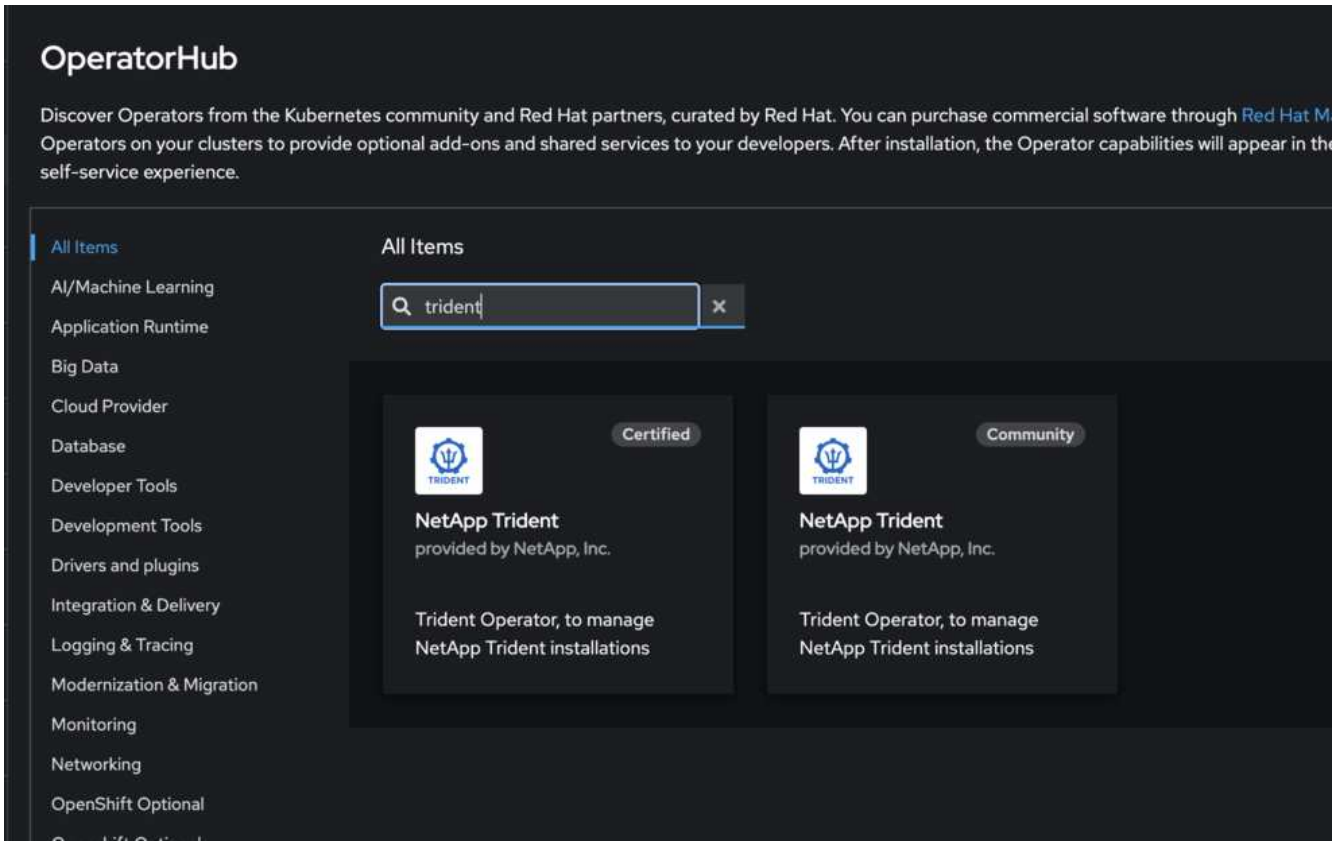
```
kubectl delete -f deploy/bundle.yaml -n trident
```

2. After the uninstall completes, proceed to Install the OpenShift certified operator.

Install the OpenShift certified operator

Steps

1. Navigate to the Red Hat OperatorHub.
2. Search for and select the NetApp Trident Operator.



3. Follow the on-screen instructions to install the operator.

Verification

- Check the OperatorHub in the console to ensure the new certified operator has been installed successfully.

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