

RedHat EX432

Red Hat Certified Specialist in OpenShift Advanced Cluster Management

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Question: 1

SIMULATION

Task 1

Install RHACM Operator (Web Console)

Answer: See the solution below in Explanation.

Explanation:

Log in to the OpenShift Web Console as a cluster-admin user.

Go to Operators → OperatorHub.

OperatorHub is the catalog of available operators.

In the search box, type: Advanced Cluster Management.

Click Advanced Cluster Management for Kubernetes (Red Hat ACM).

Click Install.

In the install wizard:

Update channel: choose the recommended/stable channel for your lab.

Installation mode: typically “All namespaces on the cluster” (default).

Installed Namespace: select or create open-cluster-management.

Click Install and wait for the operator to show Succeeded in:

Operators → Installed Operators.

Why these steps matter:

Installing the ACM operator creates the CRDs/controllers required to run the Hub components (MultiClusterHub) that manage/import other clusters.

Question: 2

SIMULATION

Task 2

Create MultiClusterHub (CLI Alternative)

Task information: Apply the MultiClusterHub custom resource if not using Web Console.

Answer: See the solution below in

Explanation.

Explanation:

Ensure you are logged into the hub cluster:

```
oc whoami
```

```
oc project open-cluster-management
```

Create/apply the MultiClusterHub CR:

```
oc apply -f multiclusterhub.yaml
```

Verify it was created:

```
oc get multiclusterhub -A
```

```
oc describe multiclusterhub -n open-cluster-management
```

Watch pods come up (typical namespaces include open-cluster-management, open-clustermanagement-

hub, etc. depending on ACM version/config):

```
oc get pods -n open-cluster-management -w
```

Why these steps matter:

The MultiClusterHub CR is the “hub installation” object. The operator reconciles it and installs/maintains hub services.

Question: 3

SIMULATION

Task 3

Create Development ClusterSet

Answer: See the solution below in Explanation.

Explanation:

Create the ManagedClusterSet:

```
oc create managedclusterset development
```

Confirm it exists:

```
oc get managedclusterset
```

```
oc describe managedclusterset development
```

Why these steps matter:

ClusterSets are an ACM grouping primitive used for RBAC scoping, governance targeting, and multicluster app placement.

Question: 4

SIMULATION

Task 4

Create Production ClusterSet

Answer: See the solution below in Explanation.

Explanation:

Create the ManagedClusterSet:

`oc create managedclusterset production`

Validate:

`oc get managedclusterset`

`oc describe managedclusterset production`

Why this matters:

Separating development and production clusters is common for governance/RBAC isolation.

Question: 5

SIMULATION

Task 5

Import Cluster (Web Console)

Answer: See the solution below in Explanation.

Explanation:

In the hub cluster Web Console, go to Infrastructure → Clusters (ACM console navigation).

Click Import cluster.

Provide a name (the UI may request details like distribution/credentials depending on flow).

The wizard will provide a command to run on the managed cluster you want to import.

Copy that import command.

Log into the managed cluster (spoke) using `oc` and run the copied command.

Back on the hub, wait until the cluster status becomes Ready / Managed.

Why these steps matter:

Import registers the managed cluster, installs the klusterlet/agent components, and enables policy/app placement management.

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