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Exam : EX316

**Title : Red Hat Certified Specialist
in OpenShift Virtualization**

Version : DEMO

1.How do you verify that OpenShift Container Platform (OCP) is ready to support OpenShift Virtualization deployment?

A. See the Explanation.

Answer: A

Explanation:

1. Log in as a cluster admin: `oc login -u kubeadmin -p <password> --server=https://<api-server-url>`
2. Confirm that the cluster is healthy: `oc get clusterversion`
3. Check if necessary operators are available: `oc get csv -n openshift-operators`
4. Ensure storage class is present: `oc get sc`
5. Validate that at least one compute node has virtualization capabilities: `oc describe node | grep -i vmx|svm`

2.How do you enable the OpenShift Virtualization Operator using OperatorHub?

A. See the Explanation.

Answer: A

Explanation:

1. Access the OpenShift Web Console.
2. Navigate to Operators > OperatorHub.
3. Search for OpenShift Virtualization.
4. Click Install ® Choose openshift-cnv namespace ® Approve default install mode.
5. Verify installation with: `oc get csv -n openshift-cnv`

3.How can you deploy OpenShift Virtualization Operator using CLI with OLM?

A. See the Explanation.

Answer: A

Explanation:

1. Create the namespace: `oc create ns openshift-cnv`

2. Apply the operator group:

```
cat <<EOF | oc apply -f -
```

```
apiVersion: operators.coreos.com/v1
```

```
kind: OperatorGroup
```

```
metadata:
```

```
  name: openshift-cnv-group
```

```
  namespace: openshift-cnv
```

```
spec:
```

```
  targetNamespaces:
```

```
    - openshift-cnv
```

```
EOF
```

3. Apply the subscription:

```
cat <<EOF | oc apply -f -
```

```
apiVersion: operators.coreos.com/v1alpha1
```

```
kind: Subscription
```

```
metadata:
```

```
  name: hco-operatorhub-subscription
```

```
namespace: openshift-cnv
spec:
  channel: "stable"
  name: kubevirt-hyperconverged
  source: redhat-operators
  sourceNamespace: openshift-marketplace
EOF
```

4.How do you verify the Operator is successfully installed and running?

A. See the Explanation.

Answer: A

Explanation:

1. Run: `oc get csv -n openshift-cnv`
2. Ensure the status is Succeeded.
3. Check the pods: `oc get pods -n openshift-cnv`
4. Validate custom resources: `oc get hco -n openshift-cnv`
5. Review logs for issues: `oc logs -n openshift-cnv <pod-name>`

5.How do OpenShift Virtualization components work together after installation?

A. See the Explanation.

Answer: A

Explanation:

1. The HyperConverged Operator (HCO) orchestrates all sub-operators.
2. KubeVirt provides the virtualization APIs.
3. CDI (Containerized Data Importer) handles image imports.
4. SSP (Scheduling, Scale, Performance) manages templates and tuning.
5. These run in the openshift-cnv namespace and are reconciled by HCO.