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Step By Step Guide

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RedHat EX380 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Manage cluster monitoring and metrics: Covers troubleshooting application and cluster performance issues and managing alerts and notifications.
Topic 2	<ul style="list-style-type: none">• Manage workloads with cluster partitioning: Covers dedicating cluster nodes to specific workloads by configuring node pools, machine configurations, and special-purpose operators.
Topic 3	<ul style="list-style-type: none">• Back up and restore applications with OpenShift API for Data Protection (OADP): Covers deploying OADP, performing full application backups including data and resources, using volume snapshots, and scheduling and restoring backups.

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RedHat Red Hat Certified Specialist in OpenShift Automation and Integration Sample Questions (Q19-Q24):

NEW QUESTION # 19

Create an Argo CD Application (OpenShift GitOps)

Task Information : Create an Argo CD Application that syncs from Git into namespace gitops-demo with automated sync enabled.

Answer:

Explanation:

See the solution below in Explanation:

Explanation:

- * Create target namespace
- * `oc new-project gitops-demo`
- * Destination must exist (unless Argo is configured to auto-create).
- * Create Application manifest
- * `apiVersion: argoproj.io/v1alpha1`
- * `kind: Application`
- * `metadata:`
- * `name: demo-app`
- * `namespace: openshift-gitops`
- * `spec:`
- * `project: default`
- * `source:`
- * `repoURL: https://git.example.com/org/repo.git`
- * `targetRevision: main`
- * `path: manifests/demo`
- * `destination:`
- * `server: https://kubernetes.default.svc`
- * `namespace: gitops-demo`
- * `syncPolicy:`
- * `automated:`
- * `prune: true`
- * `selfHeal: true`
- * `automated: enables auto sync.`
- * `prune: removes deleted objects from Git.`
- * `selfHeal: corrects drift.`
- * Apply Application
- * `oc apply -f demo-app.yaml`
- * Verify sync health
- * `oc -n openshift-gitops get application demo-app -o yaml | grep -i -E "sync|health" -n`
- * `oc -n gitops-demo get all`

NEW QUESTION # 20

GitOps and MachineConfig - Push MachineConfig to Git

Answer:

Explanation:

See the solution below in Explanation:

Explanation:

Step 1: Make sure the MachineConfig YAML has already been created or modified in the local Git repository.

This Task assumes the file change is ready to be committed.

Step 2: Run the command:

```
git commit -am "Add MachineConfig for motd" && git push origin main
```

Step 3: Verify the commit succeeds and the push goes to the main branch.

The lab output shows:

```
[main 8d32a1] Add MachineConfig for motd
```

Detailed explanation:

This Task is part of a GitOps workflow. Instead of manually applying changes directly to the cluster, the desired configuration is stored in Git, and a GitOps controller such as Argo CD synchronizes the cluster to match the repository state. The command commits all tracked modified files with the message Add MachineConfig for motd and then pushes the change to the main branch. In this model, Git becomes the source of truth. A MachineConfig is typically used to manage node-level operating system configuration in OpenShift, so pushing it through GitOps ensures the change is auditable, repeatable, and reconciled declaratively. If the commit does not include the intended YAML, the synchronization mechanism will not apply the desired change.

NEW QUESTION # 21

Dedicate nodes to a workload using labels and nodeSelector

Task Information : Label two nodes with `workload=payments` and schedule a deployment only onto those nodes.

Answer:

Explanation:

See the solution below in Explanation:

Explanation:

- * Label the chosen worker nodes
- * oc label node worker-1 workload=payments
- * oc label node worker-2 workload=payments
- * Node labels are key/value metadata used by the scheduler.
- * Add a nodeSelector to the deployment
- * oc -n payments patch deploy api --type=merge -p '{
- * "spec":{"template":{"spec":{"nodeSelector":{"workload":"payments"}}}}
- * }'
- * Forces pods to schedule only to nodes that match the label.
- * Verify placement
- * oc -n payments get pods -o wide
- * Confirms pods are running on the intended nodes.

NEW QUESTION # 22

GitOps and MachineConfig - Trigger Argo CD Synchronization by Repository Update

Answer:

Explanation:

See the solution below in Explanation:

Explanation:

Step 1: Confirm that the repository being pushed to is the same repository watched by the GitOps/Argo CD application.

This linkage is essential because GitOps acts only on configured source repositories and paths.

Step 2: Commit the MachineConfig changes.

The lab uses:

```
git commit -am "Add MachineConfig for motd"
```

Step 3: Push the changes to the tracked branch.

The lab uses:

```
git push origin main
```

Step 4: Allow Argo CD to detect the repository change and begin synchronization.

In a standard GitOps model, the controller compares the Git repository to the cluster state and applies drift correction or new desired resources.

Detailed explanation:

This sub Task SIMULATION is the operational purpose behind the previous Git command Task SIMULATION . The point is not merely to store a file in Git; it is to update the declarative source that Argo CD uses to reconcile the cluster. Once the repository is updated, Argo CD detects the new commit and syncs the MachineConfig into the cluster according to its application definition. This demonstrates a core automation principle in OpenShift GitOps: administrators do not treat the cluster as the primary editable surface. Instead, they modify Git and let the automation layer enforce state. That provides traceability, peer review potential, rollback capability, and consistency across environments.

NEW QUESTION # 23

Schedule a recurring backup

Task Information : Create a daily backup schedule for namespace orders at 01:00.

Answer:

Explanation:

See the solution below in Explanation:

Explanation:

- * Create the schedule
- * velero schedule create orders-daily \
- * --schedule '0 1 * * *' \
- * --include-namespaces orders \
- * --snapshot-volumes

