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RedHat EX380 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Implement OpenShift GitOps: Covers deploying and configuring Argo CD with the GitOps operator to manage both cluster administration and application delivery through Git-based pipelines and integrations.
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.
Topic 4	<ul style="list-style-type: none">Manage workloads with pod scheduling: Covers controlling where pods run using taints, tolerations, labels, selectors, affinity rules, and pod disruption budgets to ensure workload placement and resiliency.
Topic 5	<ul style="list-style-type: none">Manage cluster monitoring and metrics: Covers troubleshooting application and cluster performance issues and managing alerts and notifications.
Topic 6	<ul style="list-style-type: none">Provision and inspect cluster logging: Covers deploying and configuring OpenShift logging with Vector and Loki, forwarding logs externally, querying logs, and diagnosing logging issues.

RedHat Red Hat Certified Specialist in OpenShift Automation and Integration Sample Questions (Q33-Q38):

NEW QUESTION # 33

Create and use client certificates with kubeconfig (CSR flow)

Task Information : Generate a client key/CSR for audit2, approve it, extract the signed cert, and build a kubeconfig using that cert.

Answer:

Explanation:

See the solution below in Explanation:

Explanation:

- * Generate private key and CSR
- * openssl genrsa -out audit2.key 2048
- * openssl req -new -key audit2.key -out audit2.csr -subj "/CN=audit2/O=auditors"
- * CN becomes username; O can map to groups in some setups.
- * Base64 encode CSR for the API object
- * CSR=\$(base64 -w0 audit2.csr)
- * Kubernetes CSR object expects base64-encoded request data.
- * Create the CSR object
- * cat << EOF | oc apply -f-
- * apiVersion: certificates.k8s.io/v1
- * kind: CertificateSigningRequest
- * metadata:
- * name: audit2-csr
- * spec:
- * request: \${CSR}
- * signerName: kubernetes.io/kube-apiserver-client
- * usages:
- * - client auth
- * EOF
- * Approve the CSR
- * oc adm certificate approve audit2-csr
- * Approval triggers certificate issuance.
- * Extract the signed certificate
- * oc get csr audit2-csr -o jsonpath='{.status.certificate}' | base64 -d > audit2.crt

- * Produces the client certificate file.
- * Build kubeconfig using cert/key
- * oc config set-credentials audit2 \
- * --client-certificate=audit2.crt --client-key=audit2.key \
- * --embed-certs=true --kubeconfig=audit2.kubeconfig
- * oc config set-cluster lab \
- * --server="\$(oc whoami --show-server)" \
- * --insecure-skip-tls-verify=true \
- * --kubeconfig=audit2.kubeconfig
- * oc config set-context audit2 \
- * --cluster=lab --user=audit2 --namespace=default \
- * --kubeconfig=audit2.kubeconfig
- * Creates a kubeconfig that authenticates using client certificates.
- * Test
- * oc --kubeconfig=audit2.kubeconfig get ns

NEW QUESTION # 34

Configure BackupStorageLocation and VolumeSnapshotLocation

Task Information : Configure OADP/Velero storage locations and confirm they show as Available.

Answer:

Explanation:

See the solution below in Explanation:

Explanation:

- * Create a secret for cloud credentials (S3-compatible example)
- * oc -n openshift-adp create secret generic cloud-credentials \
- * --from-file=cloud=/path/to/credentials
- * Velero uses this secret to authenticate to object storage.
- * Create/Update the DataProtectionApplication (DPA)
- * Apply a DPA CR that defines:
 - * backupLocations (bucket, endpoint URL, region, etc.)
 - * snapshotLocations (if using snapshots)
- * Verify BackupStorageLocation and SnapshotLocation
- * velero backup-location get
- * velero snapshot-location get
- * Status should be Available, meaning storage config is valid.

NEW QUESTION # 35

Backup and Restore - Fix SCC for Restored Application

Answer:

Explanation:

See the solution below in Explanation:

Explanation:

Step 1: Identify the application namespace after restore.

The lab shows the namespace as my-app-namespace.

Step 2: Run the SCC assignment command:

```
oc adm policy add-scc-to-user anyuid -z default -n my-app-namespace
```

Step 3: Confirm the role binding is applied.

The lab output shows:

```
clusterrole.rbac.authorization.k8s.io/systemopenshift:scc:anyuid added: "default" Detailed explanation:
```

After a restore, the application may fail if its pods require a security context not permitted by the default SCC allocation. This command grants the anyuid SCC to the default service account in the my-app-namespace project. The -z default syntax targets the default service account, which many restored workloads use if no custom service account is defined. The anyuid SCC allows containers to run with arbitrary user IDs, which some legacy or prebuilt images require. In OpenShift, SCC mismatches commonly

cause pods to remain in pending or crash-related states. Assigning the proper SCC resolves those admission issues so workloads can start successfully. This step is therefore a post-restore operational fix to align security policy with application requirements.

NEW QUESTION # 36

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 # 37

Export and import container images (mirror to internal registry)

Task Information : Pull an image from an external registry, push it into the OpenShift internal registry, and update a deployment to use the mirrored image.

Answer:

Explanation:

See the solution below in Explanation:

Explanation:

* Log in to OpenShift internal registry

* oc registry login

* Allows podman to push to the internal registry.

* Pull external image

* podman pull docker.io/library/nginx:1.25

* Gets the image locally.

* Tag for internal registry destination

* podman tag nginx:1.25 image-registry.openshift-image-registry.svc:5000/orders/nginx:1.25

* Uses the cluster service DNS name (works inside cluster network).

* Push to internal registry

* podman push image-registry.openshift-image-registry.svc:5000/orders/nginx:1.25

* Update deployment to use internal image

```
oc -n orders set image deploy/web web=image-registry.openshift-image-registry.svc:5000/orders/nginx:1.25
```

* Verify rollout

```
oc -n orders rollout status deploy/web
```

```
oc -n orders get pods -o wide
```

NEW QUESTION # 38

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