

RedHat.EX316.v2026-06-09.q167

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NEW QUESTION: 1

How do you view all the CRDs installed by the virtualization operator?

Answer:

See the Explanation.

Explanation:

1. Run: `oc get crds | grep kubevirt`
2. Check CRDs from CDI: `oc get crds | grep cdi`
3. View SSP CRDs: `oc get crds | grep ssp`
4. List all CRDs from HCO:
`oc get crds | grep -E 'kubevirt|cdi|ssp|vmimport'`
5. Use `oc explain <crd>` for structure.

NEW QUESTION: 2

How do you verify that snapshot capability is enabled in the cluster?

Answer:

See the Explanation.

Explanation:

1. Run: `oc get volumesnapshotclass`
2. Ensure at least one CSI-compatible VolumeSnapshotClass exists.
3. Verify deletionPolicy is set to Delete or Retain.
4. Run: `oc get volumesnapshot` to check existing snapshots.
5. Confirm snapshot CRDs are installed.

NEW QUESTION: 3

How do you validate disk integrity after OVA import?

Answer:

See the Explanation.

Explanation:

1. Boot the VM.
2. Check disk with: fsck, mount, and lsblk.
3. Check for file corruption or missing partitions.
4. Use md5sum if hash is known.
5. Confirm disk is clean and mountable.

NEW QUESTION: 4

How do you create a VM from a custom template using the web console?

Answer:

See the Explanation.

Explanation:

1. Go to Virtualization Templates.
2. Click on Custom Template Create VM
3. Fill in parameter values (e.g., NAME, SSH key).
4. Review generated VM YAML (optional).
5. Create and start VM.

NEW QUESTION: 5

How do you update a custom VM template after creation?

Answer:

See the Explanation.

Explanation:

1. Export existing template: `oc get template <name> -o yaml > template.yaml`
2. Modify content (e.g., cloud-init, disk, metadata).
3. Re-apply with `oc apply -f template.yaml`
4. New VMs will reflect the change.
5. Old VMs remain unchanged.

NEW QUESTION: 6

How do you expose a VM's HTTP service using a Route and Service combination?

Answer:

See the Explanation.

Explanation:

1. Create a ClusterIP service for port 80 as shown in Q1.
2. Create a route:

apiVersion: route.openshift.io/v1

kind: Route

metadata:

name: web-vm-route

spec:

to:

kind: Service

name: web-vm-svc

port:

targetPort: 80

3. Apply route.

4. Access using curl `http://<route-hostname>`

5. Use `oc get route` to find the route.

NEW QUESTION: 7

How do you use a headless service for VM discovery in StatefulSet-like behavior?

Answer:

See the Explanation.

Explanation:

1. Define: `clusterIP: None` in service YAML.
2. Apply a consistent naming convention to VMs.
3. Each VM can be resolved as `vm1.svc-name.default.svc`
4. Use StatefulSet or custom controller for ordering.
5. Internal DNS resolution works automatically.

NEW QUESTION: 8

How do you create a VM template that includes health probes?

Answer:

See the Explanation.

Explanation:

1. In VM YAML, add probes under `spec.template.spec`
2. Wrap full VM YAML into a Template resource:

`apiVersion: template.openshift.io/v1`

`kind: Template`

...

`objects:`

- <VM YAML>

3. Save and apply: `oc apply -f health-probe-template.yaml`
4. Create VM from template.
5. VMs will inherit health probes.

NEW QUESTION: 9

How do you create a backup for a virtual machine using Velero CLI?

Answer:

See the Explanation.

Explanation:

1. Run:

```
velero backup create vm-backup --include-namespaces <vm-namespace> --wait
```

2. Add --snapshot-volumes if CSI snapshots are supported.

3. Confirm backup: `velero backup get`

4. View logs: `velero backup logs vm-backup`

5. Backup stored in S3 or compatible storage.

NEW QUESTION: 10

How do you make sure that a VM disk is encrypted at rest?

Answer:

See the Explanation.

Explanation:

1. Use a storage class that supports encryption (e.g., Ceph or CSI driver).

2. Confirm with:

```
oc get sc <sc-name> -o yaml | grep encryption
```

3. Ensure PVC uses that class.

4. Use CSI secrets if required.

5. Validate with provider documentation.

NEW QUESTION: 11

How do you ensure VMs are scheduled on separate zones for high availability?

Answer:

See the Explanation.

Explanation:

1. Label nodes with zone info:

```
oc label node worker-1
```

```
topology.kubernetes.io/zone=zone-a oc label node
```

```
worker-2 topology.kubernetes.io/zone=zone-b
```

2. Use podAntiAffinity with

topologyKey: topologyKey:

```
topology.kubernetes.io/zone
```

3. VMs will spread across zones.

4. Reduces blast radius in outages.

5. Validate with `oc get vmi -o wide`

NEW QUESTION: 12

How do you use the virt-v2v tool to convert and import a VM directly from an OVA?

Answer:

See the Explanation.

Explanation:

1. On a RHEL host with virt-v2v installed, run:

```
virt-v2v -i ova my-vm.ova -of qcow2 -o local -os /tmp/vm-import/
```

2. It converts and stores the disk in qcow2 format.
3. Upload the qcow2 image using virtctl image-upload.
4. Create a DataVolume and use it in VM.
5. Reduces manual OVF parsing.

NEW QUESTION: 13

How do you clone a virtual machine using the OpenShift Web Console?

Answer:

See the Explanation.

Explanation:

1. Go to Virtualization VirtualMachines.
2. Click the kebab menu next to the target VM Select Clone.
3. Enter the new VM name.
4. (Optional) Edit disks, CPU, memory, and network.
5. Click Clone Virtual Machine Verify new VM creation.

NEW QUESTION: 14

How do you expose the imported VM using a ClusterIP service?

Answer:

See the Explanation.

Explanation:

1. Label the VM: `oc label vm my-vm app=imported-vm`

2. Create a service:

apiVersion: v1

kind: Service

metadata:

name: my-vm-service

spec:

selector:

kubevirt.io/domain: my-vm

ports:

- port: 22

targetPort: 22

3. Apply the YAML.

4. Test internal connectivity via `ssh my-vm-service`.

NEW QUESTION: 15

How do you reboot the virtual machine from inside the guest OS?

Answer:

See the Explanation.

Explanation:

1. Inside

VM: sudo

reboot

2. VM will shut down and restart.

3. From host:

virtctl restart <vm-name>

4. Confirm with oc get vmi

5. Useful during package updates.

NEW QUESTION: 16

How do you check the system boot time and uptime of the VM OS?

Answer:

See the Explanation.

Explanation:

1. From VM console or

shell: uptime

2. Or get system boot

time: who -b

3. Optional:

systemd-analyze

4. Provides time since last reboot.

5. Useful in monitoring reboot behavior.

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NEW QUESTION: 17

How do you update all installed packages on the VM?

Answer:

See the Explanation.

Explanation:

1. RHEL/CentOS: sudo

dnf update -y

2. Debian/Ubuntu:

sudo apt update && sudo apt upgrade -y

3. Reboot if kernel or critical packages updated.

4. Validate with rpm -qa or dpkg -l.

5. Ensures VM is patched and secure.

NEW QUESTION: 18

How do you install the OADP Operator using CLI (YAML)?

Answer:

See the Explanation.

Explanation:

1. Create the namespace: `oc create ns oadp-operator`

2. Apply OperatorGroup:

`apiVersion: operators.coreos.com/v1`

`kind: OperatorGroup`

`metadata:`

`name: oadp-group`

`namespace: oadp-operator`

`spec:`

`targetNamespaces:`

`- oadp-operator`

3. Apply Subscription:

`apiVersion: operators.coreos.com/v1alpha1`

`kind: Subscription`

`metadata:`

`name: oadp-subscription`

`namespace: oadp-operator`

`spec:`

`name: oadp-operator`

`channel: stable`

`source: redhat-operators`

`sourceNamespace: openshift-marketplace`

4. Check installation: `oc get csv -n oadp-operator`

NEW QUESTION: 19

How do you confirm a VM service is resolving correctly via internal DNS?

Answer:

See the Explanation.

Explanation:

1. Create a temporary pod:

`oc run dns-check --rm -it --image=busybox -- sh`

2. Inside pod: `nslookup vm-service.default.svc.cluster.local`

3. It should return the ClusterIP.
4. Try ping vm-service
5. Exit pod with exit.

NEW QUESTION: 20

How do you assign a static IP to a VM's Multus interface using cloud-init?

Answer:

See the Explanation.

Explanation:

1. Add cloud-init section to VM:

cloudInitNoCloud:

userData: |

#cloud-config

network:

version: 2

ethernets:

eth1:

dhcp4: false

addresses:

- 192.168.100.20/24

gateway4:

192.168.100.1

nameservers:

addresses: [8.8.8.8]

2. Apply and start VM.

3. Access VM console and verify static IP.

4. Test network with ping.

5. Use ip route to confirm gateway.

NEW QUESTION: 21

How do you attach a cloned disk to a new or existing VM?

Answer:

See the Explanation.

Explanation:

1. Create DataVolume clone from source disk PVC.

2. Edit target VM YAML:

disks:

- name: new-disk

disk:

bus: virtio

volumes:

- name: new-disk
- dataVolume:
- name: cloned-disk
- 3. Apply changes.
- 4. Restart the VM.
- 5. Mount disk in guest OS.

NEW QUESTION: 22

How do you live attach a disk to a running VM (if hotplug is enabled)?

Answer:

See the Explanation.

Explanation:

1. Create PVC for the disk.
2. Use:
`virtctl addvolume <vm-name> --volume-name hotplug-disk --persist`
3. Monitor attachment: `oc describe vmi <vm-name>`
4. Access inside VM: `lsblk`, `dmesg`
5. Detach with `virtctl removevolume`.

NEW QUESTION: 23

How do you verify the version of a software package (e.g., openssl)?

Answer:

See the Explanation.

Explanation:

1. On RHEL-based: `rpm -q openssl`
2. On Debian-based:
`dpkg -s openssl | grep Version`
3. Output shows installed version.
4. Useful before patching.
5. Confirming version ensures compatibility.

NEW QUESTION: 24

How do you enable access to a VM for another user in the same namespace?

Answer:

See the Explanation.

Explanation:

1. Create a Role granting access to VMs:
`kind: Role`
`apiVersion: rbac.authorization.k8s.io/v1`

metadata:

namespace: default

name: vm-user-access

rules:

- apiGroups: ["kubevirt.io"]

resources: ["virtualmachines", "virtualmachineinstances"]

verbs: ["get", "list", "watch", "start", "stop", "restart"]

2. Bind role to user:

oc create rolebinding user-vm-access --role=vm-user-access --user=<username> --

namespace=default

NEW QUESTION: 25

How do you manually create a VolumeSnapshot of a VM disk PVC?

Answer:

See the Explanation.

Explanation:

1. Find the PVC: oc get pvc

2. Create a VolumeSnapshot:

apiVersion: snapshot.storage.k8s.io/v1

kind: VolumeSnapshot

metadata:

name: mydisk-snapshot

spec:

volumeSnapshotClassName: csi-rbdplugin-

snapclass source:

persistentVolumeClaimName: test-vm-disk

3. Apply and verify with: oc get volumesnapshot

4. Used for out-of-band recovery.

NEW QUESTION: 26

How do you create a Multus NetworkAttachmentDefinition for a bridged external network?

Answer:

See the Explanation.

Explanation:

1. Create the NAD YAML:

apiVersion: k8s.cni.cncf.io/v1

kind: NetworkAttachmentDefinition

metadata:

name: ext-bridge-net

namespace: default

spec:

```
config: '{
  "cniVersion": "0.3.1",
  "type": "bridge",
  "bridge": "br-ext",
  "ipam": {
    "type": "dhcp"
  }
}'
```

2. Apply it: `oc apply -f nad.yaml`
3. Confirm with: `oc get net-attach-def`
4. Validate bridge exists on node.
5. Check for DHCP connectivity later in VM.

NEW QUESTION: 27

How do you validate that a VM respects a taint by default (without toleration)?

Answer:

See the Explanation.

Explanation:

1. Taint a node:
`oc adm taint nodes worker-2 special-use=true:NoSchedule`
2. Start a VM without toleration.
3. It won't schedule on worker-2.
4. Add toleration and test again.
5. Used to enforce node usage policies.

NEW QUESTION: 28

How do you verify the contents of a snapshot (disks, metadata)?

Answer:

See the Explanation.

Explanation:

1. Run:
`oc get vmsnapshot <name> -o yaml`
2. Look for `status.virtualMachineSnapshotContentName`
3. Describe the content:
`oc get vmsnapshotcontent <name> -o yaml`
4. Review volumes, source info, and metadata.
5. Ensure all expected disks are present.

NEW QUESTION: 29

How do you install a software package from a .rpm file manually?

Answer:

See the Explanation.

Explanation:

1. Copy .rpm to the VM.
2. Run:
`sudo rpm -ivh package.rpm`
3. Resolve dependencies if errors occur.
4. Confirm with `rpm -q <package>`
5. For .deb, use `dpkg -i`.

NEW QUESTION: 30

How do you import a VM from an OVA file using the Web Console?

Answer:

See the Explanation.

Explanation:

1. Go to Virtualization Import
2. Select Import from OVA (local)
3. Provide VM name, select file, and storage class.
4. Configure networking and boot options.
5. Click Import Wait for VM and PVC creation.

NEW QUESTION: 31

How do you reset or remove health probes from a VM definition?

Answer:

See the Explanation.

Explanation:

1. Edit the VM
YAML: `oc edit vm <vm-name>`
2. Delete `livenessProbe` and/or `readinessProbe` blocks.
3. Save changes.
4. Restart VM: `virtctl restart <vm-name>`
5. Confirm probes are no longer active via `describe vmi`.

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NEW QUESTION: 32

How do you delete a Velero backup and all associated snapshots?

Answer:

See the Explanation.

Explanation:

1. Delete using CLI:
velero backup delete vm-backup --confirm
2. Delete related volume snapshots manually if needed.
3. Use: oc delete volumesnapshot <name>
4. Remove from object store if required.

NEW QUESTION: 33

How do you create a LoadBalancer type service (if your cluster supports it)?

Answer:

See the Explanation.

Explanation:

1. Create a service:
spec:
type: LoadBalancer
2. Apply: oc apply -f svc.yaml
3. External IP will be provisioned by the cloud provider.
4. Test using: curl <external-ip>
5. Works only if underlying infrastructure supports LoadBalancer.

NEW QUESTION: 34

How do you test that a VM remains responsive during a live migration?

Answer:

See the Explanation.

Explanation:

1. SSH into the VM or start a long-running
ping: ping <vm-ip>
2. In another terminal, trigger migration:
virtctl migrate <vm-name>
3. Watch for any dropped pings or session drops.
4. Smooth migration shows no service disruption.
5. Ideal for production-grade high availability.

NEW QUESTION: 35

How do you use a ReadOnlyMany PVC in a VM for shared reference data?

Answer:

See the Explanation.

Explanation:

1. Ensure storage class supports ReadOnlyMany.
2. Create a PVC with accessModes: ReadOnlyMany
3. Mount inside VM YAML:

disks:

- name: shared

cdrom: {}

volumes:

- name: shared

persistentVolumeCla

im:

claimName: readonly-pvc

4. Start VM and mount disk as read-only.
5. Verify from OS that it is not writable.

NEW QUESTION: 36

How do you customize CPU and memory in a preconfigured template?

Answer:

See the Explanation.

Explanation:

1. Use oc process with
parameters: -p MEMORY=4Gi
-p CPU=2
2. Or use the web console and edit Flavor settings.
3. Adjust limits under VM Details Resources.
4. Save and start VM.
5. Validate via oc describe vm <vm-name>.

NEW QUESTION: 37

How do you automate the Multus and NMState config for new nodes?

Answer:

See the Explanation.

Explanation:

1. Use MachineConfigPools or Ansible automation.
2. Apply NMState policies with nodeSelectors.
3. Label new nodes to match policies.
4. NADs are namespace-scoped and reusable.
5. Confirm bridge creation and VM compatibility.

NEW QUESTION: 38

How do you verify NMState is managing your nodes?

Answer:

See the Explanation.

Explanation:

1. List all NMStateConfig objects: `oc get nmstateconfigs`
2. Check if one exists per worker/master node.
3. View config: `oc describe nmstateconfig <node-name>`
4. Confirm node labels: `nmstate.io/node-network-config=true`
5. Validate status using: `oc get nncp (NodeNetworkConfigurationPolicy)`

NEW QUESTION: 39

How do you detect and troubleshoot failed live migrations?

Answer:

See the Explanation.

Explanation:

1. Check migration status:
`oc get vmim`
`oc describe vmim <name>`
2. Look for Phase: Failed and reason.
3. Common issues: storage not shared, bandwidth low, node unschedulable.
4. Use `oc logs` on `virt-launcher` pods.
5. Reconfigure and retry migration.

NEW QUESTION: 40

How do you configure migration policies for OpenShift Virtualization?

Answer:

See the Explanation.

Explanation:

1. Create a MigrationPolicy object:
`apiVersion: kubevirt.io/v1alpha3`
`kind: MigrationPolicy`
`metadata:`
`name: fast-policy`
`spec:`
`selectors:`
`namespaceSelector:`
`matchLabels:`
`policy-group: fast`
`allowAutoConverge: true`

allowPostCopy: true

2. Label target namespaces:

oc label ns <target-ns> policy-group=fast

3. Applies advanced migration controls to selected VMs.

NEW QUESTION: 41

How do you monitor network usage and metrics for a VM?

Answer:

See the Explanation.

Explanation:

1. Use OpenShift Monitoring.

2. Query Prometheus:

kubevirt_vmi_network_receive_bytes_total{namespace="default"}

3. View metrics via Web Console: Observe Metrics.

4. For CLI: install kubectl-top plugin or scrape metrics manually.

NEW QUESTION: 42

How do you include a predefined DataVolume template in a custom template?

Answer:

See the Explanation.

Explanation:

1. Under dataVolumeTemplates, define DV:

dataVolumeTemplates:

- metadata:

name: rootdisk

spec:

source:

http:

url: http://<image-url>

pvc:

accessModes: [ReadWriteOnce]

resources:

requests:

storage: 10Gi

2. Refer to this DV in volumes: section.

3. Included in template and auto-created.

4. Enables automated provisioning.

NEW QUESTION: 43

How do you expose multiple ports from a VM using a single service?

Answer:

See the Explanation.

Explanation:

1. Define multiple ports in your service:

ports:

- name: ssh

port: 22

targetPort: 22

- name: http

port: 80

targetPort: 80

2. Apply the service.

3. Access each port individually using service DNS or NodePort.

4. Allows exposing multi-port applications.

5. Keeps networking simplified.

NEW QUESTION: 44

How do you restore a backed-up virtual machine using Velero CLI?

Answer:

See the Explanation.

Explanation:

1. Run:

velero restore create --from-backup vm-backup --wait

2. Monitor progress: velero restore get

3. Check logs: velero restore logs <restore-name>

4. Confirm restored VM exists: oc get vm

5. Start the VM if it's not auto-started.

NEW QUESTION: 45

How do you create a user who can only manage virtual machines and nothing else in a namespace?

Answer:

See the Explanation.

Explanation:

1. Create a Role:

rules:

- apiGroups: ["kubevirt.io"]

resources: ["virtualmachines", "virtualmachineinstances"]

verbs: ["create", "delete", "get", "list", "start", "stop"]

2. Bind to user:

oc create rolebinding vm-manager --role=vm-role --user=<username> --namespace=default

NEW QUESTION: 46

How do you verify that snapshot was created using CSI and not manually?

Answer:

See the Explanation.

Explanation:

1. Run:
oc get volumesnapshot <name> -o yaml
2. Check driver field in snapshotHandle.
3. CSI-backed snapshots show CSI driver (e.g., csi-ceph).
4. Ensure readyToUse: true.
5. Confirm automated snapshot integration.

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NEW QUESTION: 47

How do you configure a Linux bridge on a node using NMState?

Answer:

See the Explanation.

Explanation:

1. Define a bridge policy:
interfaces:
- name: br-ext
type: linux-bridge
state:
up
bridge:
options:
stp:
false
port:
- name: ens5
2. Apply to a node using NNCP.
3. Wait for the bridge to appear: ip link show br-ext
4. Ping test: ping -I br-ext <external-gateway>

5. Validate with nmcli if needed.

NEW QUESTION: 48

How do you assign a custom hostname to a route exposing a VM?

Answer:

See the Explanation.

Explanation:

1. Edit your Route spec:

spec:

host: myvm.apps.cluster.example.com

2. Apply: `oc apply -f custom-route.yaml`

3. Ensure DNS resolves to OpenShift router IP.

4. Access the VM: `curl http://myvm.apps.cluster.example.com`

5. Useful for consistent URLs.

NEW QUESTION: 49

How do you end maintenance mode for a node?

Answer:

See the Explanation.

Explanation:

1. Delete the NodeMaintenance object:

`oc delete nodemaintenance maintenance-worker-1`

2. This uncondons the node.

3. New workloads can now be scheduled.

4. Verify node status: `oc get nodes`

5. Useful post-upgrade or hardware work.

NEW QUESTION: 50

How do you label a namespace to include it in a VM backup?

Answer:

See the Explanation.

Explanation:

1. Label the namespace:

`oc label namespace <vm-namespace> backup=enabled`

2. In backup spec, include selector:

labelSelector:

matchLabels:

backup: enabled

3. Ensures only selected namespaces are backed up.

NEW QUESTION: 51

How do you start, stop, and restart a virtual machine from the CLI?

Answer:

See the Explanation.

Explanation:

1. Start VM: `virtctl start test-vm`
2. Stop VM: `virtctl stop test-vm`
3. Restart VM:
`virtctl stop test-vm`
`virtctl start test-vm`
4. Confirm: `oc get vmi`
5. Ensure VM is in Running state.

NEW QUESTION: 52

How do you create a VM with a static IP using Multus?

Answer:

See the Explanation.

Explanation:

1. Define a NAD with static IPAM (see Q5).
2. In the VM spec:
`networks:`
`- name:`
`multus-net`
`multus:`
`networkName: bridge-net`
`interfaces:`
`- name:`
`multus-net`
`bridge: {}`
3. Use cloud-init or DHCP inside VM to configure static IP.
4. Validate via `virtctl` console.

NEW QUESTION: 53

How do you configure a ClusterIP service to work with a VM load balancer setup?

Answer:

See the Explanation.

Explanation:

1. Create multiple VMs running same service (e.g., HTTP).
2. Label each VM: `app: web-vm`
3. Create a service:
`selector:`
`app: web-vm`

4. All endpoints will round-robin via ClusterIP.
5. Test with multiple requests: `curl vm-service`

NEW QUESTION: 54

How do you expose a VM's secondary NIC using ClusterIP (Multus)?

Answer:

See the Explanation.

Explanation:

1. Add Multus network to the VM and assign IP manually or via DHCP.
2. Inside VM: configure the app to bind to Multus interface.
3. Create a ClusterIP service with endpoint pointing to that IP.
4. Alternatively, use Endpoints object to define target manually.
5. Test internal access.

NEW QUESTION: 55

How do you test multiple VM probe types in one configuration?

Answer:

See the Explanation.

Explanation:

1. Define both:

livenessProbe:

httpGet:

path: /live

port: 8080

readinessProbe:

httpGet:

path: /ready

port: 8080

2. Start the VM.
3. Simulate failure of each endpoint one by one.
4. Observe restart (liveness) and traffic halt (readiness).
5. Confirm expected probe behavior.

NEW QUESTION: 56

How do you patch the HyperConverged CR to customize feature configuration?

Answer:

See the Explanation.

Explanation:

1. Get the current spec: `oc get hco -n openshift-cnv -o yaml`
2. Modify the YAML locally or patch directly using `oc patch`:
`oc patch hco kubevirt-hyperconverged -n openshift-cnv --type merge`

```
-p '{"spec":{"featureGates":{"withHostPassthroughCPU": true}}}'
```

3. Confirm the spec was updated: `oc get hco -n openshift-cnv -o yaml`
4. Ensure all components reconcile properly
5. Monitor pod restarts due to config change

NEW QUESTION: 57

How do you configure DNS for a VM to resolve custom internal domains?

Answer:

See the Explanation.

Explanation:

1. Use cloud-init in VM spec to write `/etc/resolv.conf`:

```
cloudInitNoCloud:
```

```
userData: |
```

```
#cloud-config
```

```
write_files:
```

```
- path: /etc/resolv.conf
```

```
content: |
```

```
nameserver
```

```
10.0.0.10
```

```
search internal.local
```

2. Apply and restart the VM.
3. Test name resolution inside VM.

NEW QUESTION: 58

How do you migrate multiple VMs in a rolling fashion?

Answer:

See the Explanation.

Explanation:

1. List target VMs: `oc get vm`

2. For each VM:

```
virtctl migrate <vm-name>
```

3. Wait for migration to finish before

```
next: oc get vmim -w
```

4. Use scripting/Ansible for automation.
5. Best for reducing downtime during maintenance.

NEW QUESTION: 59

How do you monitor the status of an ongoing VM migration?

Answer:

See the Explanation.

Explanation:

1. Run: `oc get vmim` to list migrations.
2. View detailed status:
`oc describe vmim <migration-name>`
3. Look for: Phase: Succeeded or Failed.
4. Track progress under `status.conditions`.
5. Use `oc get vmi -o wide` to confirm new node location.

NEW QUESTION: 60

How do you safely migrate a VM before node maintenance?

Answer:

See the Explanation.

Explanation:

1. Ensure VM is running: `virtctl start <vm-name>`
2. Start migration:
`virtctl migrate <vm-name>`
3. Wait for
completion: `oc get
vmim -w`
4. Confirm new node using `oc get vmi <name> -o wide`.
5. VM is now safe from being disrupted during drain.

NEW QUESTION: 61

How do you simulate readiness failure to observe probe behavior?

Answer:

See the Explanation.

Explanation:

1. Inside VM, stop the service monitored by `readinessProbe`.
2. Run:
`systemctl stop sshd`
3. Watch `oc describe vmi` for readiness change.
4. VM will be marked as `NotReady` in endpoints.
5. Traffic stops until service is restored.

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NEW QUESTION: 62

How do you protect VM snapshots from accidental deletion?

Answer:

See the Explanation.

Explanation:

1. Annotate the snapshot:

```
oc annotate vmsnapshot <name> snapshot.kubevirt.io/protected=true
```

2. Enforce via RBAC or automation to check annotations.

3. Prevent deletion unless annotation is removed.

4. Useful in production or backup policies.

5. Combine with Velero for full protection.

NEW QUESTION: 63

How do you test access to a VM using a ClusterIP service?

Answer:

See the Explanation.

Explanation:

1. Deploy a test pod:

```
oc run testpod --rm -it --image=alpine -- /bin/sh
```

2. Run: apk add curl openssh-client

3. Test: curl http://vm-service.default.svc.cluster.local

4. For SSH: ssh user@vm-service (if keys or passwords are set).

5. Exit pod with exit.

NEW QUESTION: 64

How do you perform an in-place restore of a VM from its snapshot?

Answer:

See the Explanation.

Explanation:

1. Ensure original VM is stopped: virtctl stop test-vm

2. Apply a VirtualMachineRestore targeting the same VM name.

3. Use the snapshot name in spec.

4. Wait for restore to complete.

5. Start the VM and confirm state.

NEW QUESTION: 65

How do you ensure your VMs can be balanced by a service?

Answer:

See the Explanation.

Explanation:

1. Confirm VMs use the bridge interface, not masquerade.
2. Check VM pods are labeled with `kubevirt.io/domain=<vm-name>`
3. Use this label in the service selector.
4. Ensure each VM listens on the target port.
5. Verify with curl or telnet.

NEW QUESTION: 66

How do you convert a shell script into a systemd service?

Answer:

See the Explanation.

Explanation:

1. Create unit file:

```
vim /etc/systemd/system/hello.service
```

2. Add:

```
[Unit]
```

```
Description=Hello Service
```

```
[Service]
```

```
ExecStart=/usr/local/bin/hello.sh
```

```
Type=simple
```

```
[Install]
```

```
WantedBy=multi-user.target
```

3. Enable and start:

```
systemctl enable --now
```

```
hello
```

4. Confirm with `systemctl status hello`

NEW QUESTION: 67

How do you automate VM cloning using oc and a processed YAML file?

Answer:

See the Explanation.

Explanation:

1. Export VM:

```
oc get vm original-vm -o yaml > cloned-vm.yaml
```

2. Update `metadata.name` and `spec.template.metadata.name`

3. Update DataVolume or PVC names accordingly.

4. Apply: `oc apply -f cloned-vm.yaml`

5. Start new VM: `virtctl start <new-vm>`

NEW QUESTION: 68

How do you install the OADP Operator using the OpenShift Web Console?

Answer:

See the Explanation.

Explanation:

1. Go to Operators OperatorHub.
2. Search for OpenShift API for Data Protection (OADP).
3. Click Install, select target namespace (e.g., oadp-operator), and approve defaults.
4. Wait for status Succeeded in Installed Operators.
5. Confirm pods are running: `oc get pods -n oadp-operator`

NEW QUESTION: 69

How do you verify that the OADP and Velero components are ready?

Answer:

See the Explanation.

Explanation:

1. Run: `oc get dpa -n oadp-operator`
2. Describe the DPA: `oc describe dpa dpa -n oadp-operator`
3. Confirm the Velero pod is Running: `oc get pods -n oadp-operator`
4. Run: `velero version` if Velero CLI is installed.
5. Validate BackupStorageLocation and VolumeSnapshotLocation are Available.

NEW QUESTION: 70

How do you configure SSH access to the imported VM using an injected key?

Answer:

See the Explanation.

Explanation:

1. Inject SSH key using cloud-init (see Q14).
2. Inside VM, ensure sshd is enabled: `systemctl status sshd`
3. SSH from outside using exposed NodePort:
`ssh user@<nodeIP> -p <nodePort>`
4. Verify access.
5. Secure SSH configs afterward.

NEW QUESTION: 71

How do you configure a watchdog device for a VM?

Answer:

See the Explanation.

Explanation:

1. Edit VM YAML and add:
domain:
devices:

watchdog:

i6300esb: {}

2. Start the VM and verify

with: `ls /dev/watchdog*`

3. Install watchdog inside the VM.

4. Start it: `systemctl start watchdog`

5. Protects against internal guest hangs.

NEW QUESTION: 72

How do you view logs for a specific service (e.g., sshd)?

Answer:

See the Explanation.

Explanation:

1. Inside VM, run:

`sudo journalctl -u`

`sshd`

2. Use `--since` and `--until` for time

ranges: `sudo journalctl -u sshd --since`

`"1 hour ago"`

3. Use `q` to quit viewer.

4. Shows recent activity/errors.

5. Useful for debugging.

NEW QUESTION: 73

How do you configure anti-affinity to avoid placing two VMs on the same node?

Answer:

See the Explanation.

Explanation:

1. Add to VM spec:

`affinity:`

`podAntiAffinity:`

`requiredDuringSchedulingIgnoredDuringExecution:`

`- labelSelector:`

`matchLabels:`

`vm-group:`

`group1`

`topologyKey: kubernetes.io/hostname`

2. Label both VMs:

`oc label vm vm1 vm-group=group1`

`oc label vm vm2 vm-group=group1`

3. Start both VMs.

4. Confirm different nodes with `oc get vmi -o wide`.

NEW QUESTION: 74

How do you list all existing VM snapshots in a namespace?

Answer:

See the Explanation.

Explanation:

1. Run:

```
oc get vmsnapshot -n <namespace>
```

2. For detailed view:

```
oc describe vmsnapshot <snapshot-name>
```

3. Also check associated

VolumeSnapshots: `oc get`

```
volumesnapshots -n <namespace>
```

NEW QUESTION: 75

How do you remove an installed package (e.g., nano) from a VM?

Answer:

See the Explanation.

Explanation:

1. For RHEL:

```
sudo dnf remove nano
```

2. For Ubuntu:

```
sudo apt remove nano
```

3. Confirm removal.

4. Verify

with:

which

nano

5. Path missing confirms removal.

NEW QUESTION: 76

How do you clone an existing DataVolume into another for a new VM?

Answer:

See the Explanation.

Explanation:

1. Use a clone DataVolume YAML:

spec:

source:

pvc:

name: source-dv

namespace: default

2. Apply the clone DV.
3. Wait for it to complete.
4. Reference the clone in a new VM.
5. Boot and verify identical contents.

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NEW QUESTION: 77

How do you install the Velero CLI locally?

Answer:

See the Explanation.

Explanation:

1. Download Velero CLI from: <https://github.com/vmware-tanzu/velero/releases>
2. Extract and move to binary path:
tar -zxvf velero-v1.x.x-linux-amd64.tar.gz
sudo mv velero-v1.x.x-linux-amd64/velero /usr/local/bin/
3. Verify: velero version
4. Use it to interact with backup/restore resources.

NEW QUESTION: 78

How do you create a scheduled VM snapshot workflow (via cronjob)?

Answer:

See the Explanation.

Explanation:

1. Create a CronJob to apply snapshot YAML:

apiVersion: batch/v1

kind: CronJob

metadata:

name: daily-vm-snap

spec:

schedule: "0 2 * * *"

jobTemplate:

spec:

template:

spec:

containers:

- name: snapshot

image: registry.redhat.io/openshift4/ose-cli

command: ["/bin/sh", "-

c"] args:

- "oc apply -f /snapshot/vm-

snapshot.yaml" volumeMounts:

- name: snapshot-volume

mountPath: /snapshot

restartPolicy: OnFailure

volumes:

- name: snapshot-

volume configMap:

name: snapshot-cm

2. Store vm-snapshot.yaml in a ConfigMap.

3. Ensure oc runs inside pod using appropriate service account.

NEW QUESTION: 79

How do you automate daily backups of virtual machines using a schedule?

Answer:

See the Explanation.

Explanation:

1. Create a schedule:

velero schedule create daily-vm-backup --schedule "0 2 * * *" \ -

-include-namespaces <vm-namespace> --snapshot-

volumes=true

2. Verify with: velero schedule get

3. Backups will run at 2 AM daily.

4. Old backups can be pruned using retention policies.

NEW QUESTION: 80

How do you isolate external traffic from internal OpenShift SDN traffic?

Answer:

See the Explanation.

Explanation:

1. Use dual-homed VMs (pod + Multus).

2. Set routing in VM so only internet traffic goes via Multus.

3. All cluster services use pod interface (eth0).

4. Avoid SDN congestion by separating paths.

5. Validate with traceroute from VM.

NEW QUESTION: 81

How do you verify a VM uses shared storage needed for live migration?

Answer:

See the Explanation.

Explanation:

1. Check the disk volume

source: oc get vm <name> -o

yaml

2. Ensure persistentVolumeClaim or dataVolume is used.

3. Avoid containerDisk or local hostPath.

4. Validate that the PVC's storage class supports shared access.

5. Use oc describe pvc <name>.

NEW QUESTION: 82

How do you create a VolumeSnapshotLocation for CSI-based snapshots in OADP?

Answer:

See the Explanation.

Explanation:

1. Create the VolumeSnapshotLocation resource:

apiVersion: velero.io/v1

kind: VolumeSnapshotLocation

metadata:

name: default

namespace: oadp-operator

spec:

provider: aws

config:

region: us-east-1

2. Apply it: oc apply -f vsl.yaml

3. Confirm with: oc get volumesnapshotlocation -n oadp-operator

NEW QUESTION: 83

How do you find which VolumeSnapshotClass is used for a VM snapshot?

Answer:

See the Explanation.

Explanation:

1. Get VM snapshot:

oc get vmsnapshot <name> -o yaml

2. Follow status.virtualMachineSnapshotContentName

3. Inspect content's volume snapshot source.
4. Cross-check volumeSnapshotClassName.
5. Compare with `oc get volumesnapshotclass`.

NEW QUESTION: 84

How do you configure HTTPS route termination for a VM's web service?

Answer:

See the Explanation.

Explanation:

1. Create route with TLS:
tls:
termination: edge
2. Attach to service running on port 443 (HTTPS).
3. Use OpenShift Ingress default cert or your own.
4. Apply route.
5. Access with `https://<hostname>`.

NEW QUESTION: 85

How do you verify which endpoints are linked to a VM's ClusterIP service?

Answer:

See the Explanation.

Explanation:

1. Run: `oc get endpoints vm-service`
2. Check IP(s) listed match the VM pod's IP.
3. Use: `oc get pod -o wide` to verify pod IPs.
4. If empty, verify selector matches `kubevirt.io/domain: <vm-name>`
5. Confirm VM is running and reachable.

NEW QUESTION: 86

How do you use tolerations to allow VMs on tainted nodes?

Answer:

See the Explanation.

Explanation:

1. Taint a node:
`oc adm taint nodes worker-2 dedicated=vm:NoSchedule`
2. Add to VM YAML:
template:
spec:
tolerations:
- key: dedicated
value: vm

effect: NoSchedule

3. VM will now schedule on tainted node.
4. Used for isolating workloads.
5. Confirm with: `oc describe node worker-2`

NEW QUESTION: 87

How do you create a PersistentVolumeClaim (PVC) for a virtual machine root disk?

Answer:

See the Explanation.

Explanation:

1. Define the PVC YAML:

```
apiVersion: v1
```

```
kind: PersistentVolumeClaim
```

```
metadata:
```

```
name: vm-root-disk
```

```
spec:
```

```
accessModes:
```

```
- ReadWriteOnce
```

```
resources:
```

```
requests:
```

```
storage:
```

```
10Gi
```

```
storageClassName: standard
```

2. Apply with: `oc apply -f pvc.yaml`
3. Verify with: `oc get pvc vm-root-disk`
4. Use this PVC in your VM definition.

NEW QUESTION: 88

How do you script the cloning of multiple VMs?

Answer:

See the Explanation.

Explanation:

1. Use `oc get vm -o name` to list VMs.
2. For each, export YAML, rename metadata, and update disk refs.
3. Use Bash or Python to automate sed and oc apply.
4. Optionally, inject new cloud-init for each clone.
5. Validate each clone starts and is uniquely identified.

NEW QUESTION: 89

How do you detach a Multus interface from a VM safely?

Answer:

See the Explanation.

Explanation:

1. Stop VM: `virtctl stop <vm>`
2. Edit VM spec to remove the multus network and bridge interface.
3. Apply change: `oc apply -f vm.yaml`
4. Start VM: `virtctl start <vm>`
5. Confirm with `ip a` that interface is removed.

NEW QUESTION: 90

How do you create a virtual machine connected to the default pod network?

Answer:

See the Explanation.

Explanation:

1. Define the VM YAML or use the UI.
2. Ensure the network interface section is defined like:

networks:

- name:

default

pod: {}

interfaces:

- name:

default

masquerad

e: {}

3. Apply YAML with `oc apply -f vm.yaml`
4. Start VM and test intra-cluster communication.

NEW QUESTION: 91

How do you set a virtual machine to start automatically using RunStrategy?

Answer:

See the Explanation.

Explanation:

1. Edit the VM YAML:

spec:

runStrategy: Always

2. Apply:

`oc apply -f vm.yaml`

3. VM will auto-start and restart if stopped.
4. Verify with: `oc get vm <vm-name>`
5. Ensures VM availability across reboots.

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NEW QUESTION: 92

How do you start a service (e.g., httpd) in the VM OS?

Answer:

See the Explanation.

Explanation:

1. Open the VM console or SSH into the VM.
2. Run:
`sudo systemctl start httpd`
3. Confirm service
started: `systemctl is-active httpd`
4. Output should be active.
5. Service is now running.

NEW QUESTION: 93

How do you check the assigned NodePort of a service?

Answer:

See the Explanation.

Explanation:

1. Run:
`oc get svc nodeport-svc -o jsonpath='{.spec.ports[0].nodePort}'`
2. Or, describe the
service: `oc describe svc nodeport-svc`
3. Look under Port and NodePort fields.
4. Use the IP of any worker node with the NodePort to access the VM.
5. Confirm service is working.

NEW QUESTION: 94

How do you uncordon a node manually after maintenance?

Answer:

See the Explanation.

Explanation:

1. Run:

`oc adm uncordon <node-name>`

2. This enables scheduling back onto the node.

3. Use `oc get nodes` to verify status is Ready,SchedulingEnabled.

4. Ensure node is healthy: `oc get cs`, `oc get pods -n openshift-node`

5. Reschedule any pending pods.

NEW QUESTION: 95

How do you uninstall OpenShift Virtualization Operator cleanly?

Answer:

See the Explanation.

Explanation:

1. Delete HCO: `oc delete hco kubevirt-hyperconverged -n openshift-cnv`

2. Delete subscription: `oc delete subscription -n openshift-cnv <subscription-name>`

3. Delete operator group: `oc delete operatorgroup -n openshift-cnv`

4. Delete namespace: `oc delete ns openshift-cnv`

5. Confirm CRDs and CSVs are gone.

NEW QUESTION: 96

How do you clone an existing VM into a new one?

Answer:

See the Explanation.

Explanation:

1. Export the YAML of the existing VM: `oc get vm old-vm -o yaml > new-vm.yaml`

2. Change metadata name and disk names in the YAML.

3. Apply the new definition: `oc apply -f new-vm.yaml`

4. Update DataVolume if cloning disk: `oc create dv` or use volume import.

NEW QUESTION: 97

How do you create a NodePort service to expose a VM externally?

Answer:

See the Explanation.

Explanation:

1. Label the VM:

`oc label vm <vm-name> app=nodeport-vm`

2. Create service:

apiVersion: v1

kind: Service

metadata:

name: nodeport-svc

spec:

type: NodePort

selector:

kubevirt.io/domain: <vm-name>

ports:

- port: 22

targetPort: 22

nodePort: 30222

3. Apply with oc apply -f nodeport.yaml

4. Connect externally: ssh user@<node-ip> -p 30222

5. Ensure node firewall allows the port.

NEW QUESTION: 98

How do you clone only specific disks from a multi-disk VM?

Answer:

See the Explanation.

Explanation:

1. Identify target disk PVC.

2. Clone that PVC using a DataVolume.

3. In cloned VM YAML, define:

disks:

- name: cloned-

disk disk:

bus: virtio

volumes:

- name: cloned-

disk

dataVolume:

name: <cloned-dv>

4. Leave other disks unmounted or reconfigure.

5. Used for testing or forensic recovery.

NEW QUESTION: 99

How do you validate the success of a VM restore operation?

Answer:

See the Explanation.

Explanation:

1. Check VM is created: oc get vm <vm>

2. Confirm disk is attached and ready: oc get pvc

3. Start the VM: virtctl start <vm>

4. Use virtctl console or SSH to verify boot.

5. Review app or OS logs to confirm full recovery.

NEW QUESTION: 100

How do you monitor VM resource usage (CPU/Memory)?

Answer:

See the Explanation.

Explanation:

1. Install OpenShift Monitoring if not enabled.

2. Go to Web Console Observe Metrics.

3. Use PromQL query:

```
kubevirt_vmi_memory_used_bytes{namespace="default",name="test-vm"}
```

4. For CLI:

```
oc adm top pod -n default | grep test-vm
```

NEW QUESTION: 101

How do you clone a VM disk manually using DataVolume cloning?

Answer:

See the Explanation.

Explanation:

1. Identify source PVC: `oc get pvc`

2. Create DataVolume YAML:

```
apiVersion: cdi.kubevirt.io/v1beta1
```

```
kind: DataVolume
```

```
metadata:
```

```
name: cloned-disk
```

```
spec:
```

```
source:
```

```
pvc:
```

```
name: <source-pvc-name>
```

```
namespace: <namespace>
```

```
pvc:
```

```
accessModes:
```

```
-
```

```
ReadWriteOnce
```

```
resources:
```

```
requests:
```

```
storage:
```

```
10Gi
```

3. Apply with: `oc apply -f cloned-disk.yaml`

4. Use in VM:

```
volumes:
```

- name:
rootdisk
dataVolu
me:
name: cloned-disk

NEW QUESTION: 102

How do you simulate load balancing across VMs using an internal pod?

Answer:

See the Explanation.

Explanation:

1. Deploy a test pod:
oc run tester --rm -it --image=alpine -- /bin/sh
2. Inside pod: apk add curl
3. Run: curl web-vm-svc multiple times
4. Confirm responses come from different VMs.
5. Load balancing is working.

NEW QUESTION: 103

How do you check for failed services after boot?

Answer:

See the Explanation.

Explanation:

1. Inside VM:
systemctl --failed
2. Lists any failed services.
3. Investigate with:
journalctl -xe
4. Useful in detecting boot issues.

NEW QUESTION: 104

How do you expose a TCP application (e.g., MySQL) via NodePort service?

Answer:

See the Explanation.

Explanation:

1. Label VM:
oc label vm mysql-vm app=mysql
2. Create NodePort service:
spec:
type: NodePort
selector:

kubevirt.io/domain: mysql-vm

ports:

- port: 3306

targetPort: 3306

nodePort: 30306

3. Apply and test with:

mysql -h <node-ip> -P 30306 -u root -p

NEW QUESTION: 105

How do you restore a VM to a different namespace?

Answer:

See the Explanation.

Explanation:

1. Create restore:

velero restore create restore-newns --from-backup vm-backup --namespace-mappings
<oldns>:<newns>

2. Wait for restore to complete.

3. Check resources in <newns> namespace.

4. Start the VM if not running.

5. Useful for DR scenarios.

NEW QUESTION: 106

How do you ensure a VM will auto-recover from a node power failure?

Answer:

See the Explanation.

Explanation:

1. Use runStrategy: Always

2. Use eviction-strategy: LiveMigrate

3. Use shared storage and multiple nodes.

4. Test by powering off one node.

5. VM should restart/migrate automatically.

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NEW QUESTION: 107

How do you check if a VM's health probes are affecting service routing?

Answer:

See the Explanation.

Explanation:

1. Create a Service pointing to the VM.
2. Run readinessProbe in VM.
3. When readinessProbe fails, run:
`oc get endpoints <service-name>`
4. VM IP should disappear.
5. Confirms traffic routing is influenced by probe status.

NEW QUESTION: 108

How do you label a node to exclude it from running VM workloads?

Answer:

See the Explanation.

Explanation:

1. Apply label:
`oc label node <node-name> kubevirt.io/schedulable=false`
2. KubeVirt will skip this node during VM scheduling.
3. Drain and reboot node safely.
4. Remove label to make it schedulable again.
5. Confirm label with `oc get node --show-labels`.

NEW QUESTION: 109

How do you pre-create a PVC with specific performance class (e.g., gold)?

Answer:

See the Explanation.

Explanation:

1. Choose appropriate StorageClass (e.g., gold)
2. Create PVC:
`storageClassName: gold`
3. Apply PVC and confirm: `oc get pvc -o wide`
4. Use PVC in VM spec.
5. Gold tier may have faster I/O.

NEW QUESTION: 110

How do you create a DataVolume and use it as a boot disk in a VM?

Answer:

See the Explanation.

Explanation:

1. Create PVC using CDI with a URL image:

```
cat <<EOF | oc apply -f -
apiVersion: cdi.kubevirt.io/v1beta1
kind: DataVolume
metadata:
name: fedora-dv
spec:
source:
http:
url:
"https://download.fedoraproject.org/pub/fedora/linux/releases/38/Cloud/x86_64/images/Fedora-
Cloud- Base-38-1.6.x86_64.raw.xz"
pvc:
accessModes:
-
ReadWriteOnce
resources:
requests:
storage:
10Gi
EOF
```

2. Wait for the DV to complete: `oc get dv fedora-dv -w`

3. Reference it in a VM's volume section as `dataVolume`.

NEW QUESTION: 111

How do you verify that a cloned VM has separate PVCs from the original?

Answer:

See the Explanation.

Explanation:

1. List PVCs:

```
oc get pvc -n <namespace>
```

2. Match PVC names with cloned VM name (e.g., `<clone-vm-name>-rootdisk`).

3. Describe:

```
oc describe pvc <clone-pvc>
```

4. Confirm the `cloneRequest` annotation is present.

5. Validate disk content independently.

NEW QUESTION: 112

How do you delete a ClusterIP service for a VM?

Answer:

See the Explanation.

Explanation:

1. Run: `oc get svc`
2. Delete service: `oc delete svc <service-name>`
3. Confirm deletion: `oc get svc`
4. Ensure VM is no longer accessible via DNS or service.
5. Clean up unused YAMLs if stored.

NEW QUESTION: 113

How do you cancel an ongoing VM migration?

Answer:

See the Explanation.

Explanation:

1. List current migrations: `oc get vmim`
2. Delete the migration object:
`oc delete vmim <migration-name>`
3. The VM will continue to run on the original node.
4. Use `oc get vmi` to confirm no change.
5. Canceling is useful during capacity or network issues.

NEW QUESTION: 114

How do you connect a VM to an NFS share using Multus?

Answer:

See the Explanation.

Explanation:

1. Create Multus NAD to connect to NFS network.
2. Inside VM:
 - o Install `nfs-utils`
 - o Mount with: `mount -t nfs <nfs-server>:/path /mnt`
3. Automount via `/etc/fstab`
4. Validate mount and permissions.
5. Useful for external shared content.

NEW QUESTION: 115

How do you ensure a virtual machine is in a state that allows cloning?

Answer:

See the Explanation.

Explanation:

1. Confirm the VM is powered off: `virtctl stop <vm-name>`
2. Ensure all VM disks are backed by DataVolumes or PVCs.
3. Verify the VM is not using ephemeral container disks.
4. Check disk volumeMode is Filesystem or Block if using CSI cloning.

5. Snapshot or backup before proceeding (optional safety).

NEW QUESTION: 116

How do you simulate high availability with two VMs using anti-affinity?

Answer:

See the Explanation.

Explanation:

1. Label both VMs
with: `oc label vm vm-ha app=ha`
2. Use anti-affinity in each VM YAML.
3. Start both VMs.
4. They should run on separate nodes.
5. Test node failure to observe continuity.

NEW QUESTION: 117

How do you make cloud-init fields dynamic using template parameters?

Answer:

See the Explanation.

Explanation:

1. Use substitution:
`userData: |`
`#cloud-config`
`hostname: ${HOSTNAME}`
`ssh_authorized_keys:`
`- ${SSH_KEY}`
2. Define HOSTNAME and SSH_KEY in template parameters.
3. Use `oc process -p` to override values.
4. Allows per-VM customization.
5. Great for templated automation.

NEW QUESTION: 118

How do you create a Kubernetes NetworkPolicy to restrict VM ingress traffic?

Answer:

See the Explanation.

Explanation:

1. Create policy YAML:
`apiVersion: networking.k8s.io/v1`
`kind: NetworkPolicy`
`metadata:`
`name: deny-all-ingress`

namespace: default

spec:

podSelector:

matchLabels:

kubevirt.io: virt-launcher

policyTypes:

- Ingress

2. Apply: `oc apply -f deny-ingress.yaml`

3. This blocks all incoming traffic to the VM pods.

4. Use additional rules to allow selected ingress.

NEW QUESTION: 119

How do you delete a VM and all its resources cleanly?

Answer:

See the Explanation.

Explanation:

1. Delete VM: `oc delete vm test-vm`

2. Delete associated DataVolumes or PVCs:

`oc delete pvc <vm-root-disk>`

`oc delete dv <vm-datavolume>`

3. Confirm deletion: `oc get vm, dv, pvc`

NEW QUESTION: 120

How do you verify which VMs will be affected by draining a specific node?

Answer:

See the Explanation.

Explanation:

1. Run:

`oc get vmi -o wide | grep <node-name>`

2. Or:

`oc get pods -A -o wide | grep virt-launcher | grep <node>`

3. List all associated VMs.

4. Migrate or shut them down before draining.

5. Prevents unexpected disruption.

NEW QUESTION: 121

How do you enable SSH to a VM via ClusterIP service within the cluster?

Answer:

See the Explanation.

Explanation:

1. Ensure VM is running and SSH is enabled on port 22.

2. Create a ClusterIP service exposing port 22.
3. From internal pod: `ssh <user>@vm-service`
4. If authentication fails, use cloud-init to inject SSH keys.
5. Confirm login and connectivity.

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NEW QUESTION: 122

How do you expose an HTTP application running inside a VM via ClusterIP?

Answer:

See the Explanation.

Explanation:

1. Ensure VM is running a web server (e.g., Apache on port 80).
2. Create a ClusterIP service:
ports:
- protocol: TCP
port: 80
targetPort: 80
3. Use selector: `kubevirt.io/domain: <vm-name>`
4. From another pod: `curl http://vm-service.default.svc.cluster.local`
5. Confirm HTTP response.

NEW QUESTION: 123

How do you assign a static IP to an imported VM via cloud-init?

Answer:

See the Explanation.

Explanation:

1. Modify the VM YAML to include cloud-init:

cloudInitNoCloud:

userData: |

#cloud-config

network:

version: 2

ethernets:

eth0:

addresses:

-

192.168.122.100/24

gateway4:

192.168.122.1

nameservers:

addresses: [8.8.8.8]

2. Save and restart the VM.

3. Check connectivity from inside the VM.

4. Use ip a and ping.

NEW QUESTION: 124

How do you edit a default template to change its disk size?

Answer:

See the Explanation.

Explanation:

1. Export the template:

oc get template <name> -n openshift -o yaml > custom-template.yaml

2. Modify the disk size under dataVolumeTemplates: or PVC size.

3. Change template metadata.name.

4. Apply: oc apply -f custom-template.yaml

5. Use new template for VM creation.

NEW QUESTION: 125

How do you verify that a VM was provisioned from a template?

Answer:

See the Explanation.

Explanation:

1. View VM annotations:

oc get vm <vm-name> -o jsonpath='{.metadata.annotations}'

2. Check for template-related annotations.

3. Check labels such as vm.kubevirt.io/template.

4. Review YAML spec for template-derived fields.

5. Helps trace provisioning source.

NEW QUESTION: 126

How do you list all installed software packages?

Answer:

See the Explanation.

Explanation:

1. For RHEL/CentOS:
rpm -qa
2. For Debian/Ubuntu:
dpkg -l
3. Use grep to filter: rpm -qa | grep kernel
4. Helps track installed dependencies.
5. Useful for audits.

NEW QUESTION: 127

How do you restore a VM from a snapshot while preserving the original VM?

Answer:

See the Explanation.

Explanation:

1. Define a restore object:
apiVersion: snapshot.kubevirt.io/v1alpha1
kind: VirtualMachineRestore
metadata:
name: restore-test-vm
namespace: default
spec:
target:
apiGroup: kubevirt.io
kind: VirtualMachine
name: test-vm-restored
virtualMachineSnapshotName: test-vm-snap
2. Apply: oc apply -f vm-restore.yaml
3. Wait for restore to complete.
4. Confirm restored VM exists and is not auto-started.
5. Start with: virtctl start test-vm-restored

NEW QUESTION: 128

How do you check if a VM is using a live-migratable disk type?

Answer:

See the Explanation.

Explanation:

1. Get VM YAML: oc get vm <name> -o yaml
2. Under volumes, ensure disks use PersistentVolumeClaim or DataVolume.

3. Avoid containerDisk types.
4. Check PVCs are backed by shared storage (like NFS, Ceph).
5. Live migration is blocked if using non-shared local storage.

NEW QUESTION: 129

How do you back up a VM with volume snapshots using CSI?

Answer:

See the Explanation.

Explanation:

1. Ensure CSI driver supports snapshotting.
2. Enable CSI plugin in DPA config.
3. Run:
velero backup create vm-snap --include-namespaces <vm-namespace> --snapshot-volumes
4. Confirm snapshot creation via `oc get volumesnapshots`
5. Used for faster and consistent backups.

NEW QUESTION: 130

How do you restrict a NodePort service to only certain nodes?

Answer:

See the Explanation.

Explanation:

1. Use firewall rules on nodes to block/allow NodePort traffic.
2. Or, use externalTrafficPolicy: Local to restrict to nodes with backing pods.
3. Example:
spec:
externalTrafficPolicy: Local
4. Only routes to nodes hosting the VM will work.
5. Improves traffic localization.

NEW QUESTION: 131

How do you manually assign a NodePort port number to avoid conflicts?

Answer:

See the Explanation.

Explanation:

1. In your Service YAML, set the nodePort explicitly: `nodePort: 30444`
2. Ensure the port is within OpenShift's NodePort range (default: 30000-32767).
3. Avoid overlapping ports across services.
4. Apply and test access externally.
5. Prevents port collision.

NEW QUESTION: 132

How do you clone a VM into a different namespace?

Answer:

See the Explanation.

Explanation:

1. Ensure source PVC's storage class supports namespace cloning.
2. Define DataVolume clone source:
source:
pvc:
name: source-pvc
namespace: source-ns
3. Apply in target namespace.
4. Create new VM pointing to cloned DV.
5. Start and validate configuration.

NEW QUESTION: 133

How do you check the status of a service (e.g., sshd) inside a running VM?

Answer:

See the Explanation.

Explanation:

1. Access the VM via
console: virtctl console
<vm-name>
2. Authenticate with the VM's user credentials.
3. Run:
systemctl status sshd
4. Look for Active: active (running) status.
5. Use q to exit the status viewer.

NEW QUESTION: 134

How do you install the NMState Operator on your OpenShift cluster?

Answer:

See the Explanation.

Explanation:

1. Go to Web Console Operators OperatorHub.
2. Search for NMState and click Install.
3. Choose the target namespace (e.g., openshift-nmstate).
4. Wait for CSV status to show Succeeded: `oc get csv -n openshift-nmstate`
5. Confirm Operator pods are running: `oc get pods -n openshift-nmstate`

NEW QUESTION: 135

How do you test outbound NAT from a VM connected via pod network?

Answer:

See the Explanation.

Explanation:

1. VM should use masquerade interface (default).
2. Inside VM: ping 8.8.8.8 or curl http://example.com
3. External IP is seen via NAT.
4. Run tcpdump on node interface to confirm NAT.
5. Useful when Multus is not needed.

NEW QUESTION: 136

How do you prepare the OpenShift cluster for OVA imports using the virt-v2v toolset?

Answer:

See the Explanation.

Explanation:

1. Ensure OpenShift Virtualization and CDI (Containerized Data Importer) are installed.
2. Create a namespace/project: oc new-project ova-import
3. Ensure access to virt-v2v container or CLI utility on the system performing the import.
4. Set up persistent storage and the required storage class.
5. Validate cluster status using: oc get hyperconverged -n openshift-cnv

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NEW QUESTION: 137

How do you troubleshoot service-to-VM communication issues?

Answer:

See the Explanation.

Explanation:

1. Ensure VM is running: oc get vmi
2. Validate correct labels on the VM/pod.
3. Check that the service matches the VM port.
4. Use logs inside the VM via virtctl console or rsh.
5. Use tools like tcpdump inside the VM or pod.

NEW QUESTION: 138

How do you test node drain compatibility with VM live migration?

Answer:

See the Explanation.

Explanation:

1. Start a VM on a worker node.
2. Drain the node:
`oc adm drain <node> --ignore-daemonsets --delete-emptydir-data`
3. Observe that VM is migrated automatically.
4. Check `oc get vmi` to verify node change.
5. Ensures seamless upgrades or patching.

NEW QUESTION: 139

How do you enable auto-recovery of VMs using runStrategy and liveness probe?

Answer:

See the Explanation.

Explanation:

1. Set runStrategy: Always in VM YAML.
2. Add livenessProbe for service port monitoring.
3. If probe fails, KubeVirt will reboot the VM.
4. Continuous health enforcement is applied.
5. Ensures self-healing VMs.

NEW QUESTION: 140

How do you validate that a cloud-init script executed correctly inside a VM?

Answer:

See the Explanation.

Explanation:

1. Start the VM: `virtctl start <vm-name>`
2. Access VM via console: `virtctl console <vm-name>`
3. Check: `/var/log/cloud-init.log` and `/var/log/cloud-init-output.log`
4. Confirm commands ran and files were created.
5. Validate provisioning results.

NEW QUESTION: 141

How do you set a VM to use a preferred node but still run elsewhere if needed?

Answer:

See the Explanation.

Explanation:

1. Use `preferredDuringSchedulingIgnoredDuringExecution` affinity.
2. Set node label like `zone=primary`.

3. VM will use preferred node but is not limited to it.
4. Gives flexibility while honoring priority.
5. Confirm actual node with `oc get vmi -o wide`.

NEW QUESTION: 142

How do you define a secondary physical NIC on a node using NMState?

Answer:

See the Explanation.

Explanation:

1. Create a NodeNetworkConfigurationPolicy YAML:

apiVersion: nmstate.io/v1

kind: NodeNetworkConfigurationPolicy

metadata:

name: enable-second-nic

spec:

nodeSelector:

kubernetes.io/hostname: worker-0

desiredState:

interfaces:

- name: ens5

type: ethernet

state: up

2. Apply with `oc apply -f`
3. Check status: `oc get nncp enable-second-nic -o yaml`
4. Ensure Available: True
5. Confirm with `oc debug node/worker-0 ip a`

NEW QUESTION: 143

How can you install the OpenShift Virtualization Operator from a custom CatalogSource?

Answer:

See the Explanation.

Explanation:

1. Create CatalogSource pointing to custom registry.
2. Apply OperatorGroup in target namespace.
3. Apply Subscription using the custom CatalogSource.
4. Confirm installation via `oc get csv -n <namespace>`
5. Ensure `olm.status.conditions` show success.

NEW QUESTION: 144

How do you install a package (e.g., curl) on a Debian/Ubuntu-based VM?

Answer:

See the Explanation.

Explanation:

1. SSH into the VM or use console.
2. Update repo:
`sudo apt update`
3. Install package:
`sudo apt install -y`
`curl`
4. Confirm
with: `curl --`
version
5. Successful output indicates installation.

NEW QUESTION: 145

How do you ensure a VM only talks to other VMs in the same namespace?

Answer:

See the Explanation.

Explanation:

1. Create a default deny policy (see Q7).
2. Add allow policy with podSelector on namespace:
from:
- namespaceSelector:
matchLabels:
els:
name:
default
3. Label namespace: `oc label ns default name=default`
4. Apply both policies.

NEW QUESTION: 146

How do you configure DNS for the imported VM for internal service discovery?

Answer:

See the Explanation.

Explanation:

1. Expose the VM using a ClusterIP service.
2. Kubernetes DNS will resolve:
`<svc-name>.<namespace>.svc.cluster.local`
3. Inside cluster, ping `<svc-name>`
4. Confirm via `/etc/resolv.conf`
5. Ensure hostname resolution works.

NEW QUESTION: 147

How do you clone a VM that was imported via OVA or v2v?

Answer:

See the Explanation.

Explanation:

1. Ensure imported VM uses DataVolumes for disks.
2. Clone DV as per Q5.
3. Create new VM using cloned DV.
4. Adjust OS settings if required (hostname, IP).
5. Validate that boot completes.

NEW QUESTION: 148

How do you verify that KubeVirt components are installed after operator deployment?

Answer:

See the Explanation.

Explanation:

1. Check pods: `oc get pods -n openshift-cnv | grep virt`
2. Verify deployments: `oc get deployments -n openshift-cnv`
3. Confirm API services: `oc get apiservices | grep kubevirt.io`
4. Run: `oc get crds | grep kubevirt`
5. Check the custom resource: `oc get kubevirt -n openshift-cnv`

NEW QUESTION: 149

How do you verify that a Multus interface is active inside the VM?

Answer:

See the Explanation.

Explanation:

1. Access VM: `virtctl console <vm-name>`
2. Use `ip a` to list interfaces.
3. Confirm that both `eth0` (SDN) and `eth1` (Multus) are present.
4. Run `ping <gateway-ip>` to test connectivity.
5. Run `ethtool <interface>` to confirm link.

NEW QUESTION: 150

How do you define a watchdog device in a VM?

Answer:

See the Explanation.

Explanation:

1. Add the following under `domain.devices`:

`devices:`

`watchdog:`

name: watchdog0

i6300esb: {}

2. Use i6300esb for virtual watchdog emulation.
3. VM OS must have a watchdog daemon (e.g., wdctl) running.
4. Apply YAML and restart the VM.
5. Used for in-guest health monitoring.

NEW QUESTION: 151

How do you configure a watchdog timeout value inside a VM?

Answer:

See the Explanation.

Explanation:

1. Edit /etc/watchdog.conf inside the VM.
2. Set:
watchdog-device = /dev/watchdog
watchdog-timeout = 15
3. Restart watchdog
service: systemctl
restart watchdog
4. Confirms custom timeout takes effect.
5. Helps tailor recovery thresholds.

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NEW QUESTION: 152

How do you add an additional disk to a running virtual machine?

Answer:

See the Explanation.

Explanation:

1. Create PVC: oc create pvc extra-disk --size=5Gi --storage-class=standard -- access-mode=ReadWriteOnce
2. Attach disk (Web UI Add Disk) or patch:
oc patch vm test-vm --type='json' -p='[{"op": "add", "path":
"/spec/template/spec/domain/devices/disks/-",


```
"value": {"name": "extra-disk", "disk": {"bus": "virtio"}}, {"op": "add", "path":  
"/spec/template/spec/volumes/-", "value": {"name": "extra-disk", "persistentVolumeClaim":  
{"claimName": "extra-disk"}}}]'
```

3. Restart VM: `virtctl restart test-vm`

NEW QUESTION: 153

How do you enforce that a VM always prefers a group of nodes?

Answer:

See the Explanation.

Explanation:

1. Label your preferred nodes:

```
oc label node worker-1 vm-preferred=true
```

```
oc label node worker-2 vm-preferred=true
```

2. Add affinity to VM:

nodeAffinity:

preferredDuringSchedulingIgnoredDuringExecution:

- preference:

matchExpressions:

- key: vm-preferred

operator:

in

values:

- "true"

weight: 1

3. VM will prefer labeled nodes but can run elsewhere if needed.

NEW QUESTION: 154

How do you view the restore history of a VM?

Answer:

See the Explanation.

Explanation:

1. Run: `oc get vmrestore`

2. Describe each restore:

```
oc describe vmrestore <name>
```

3. See which snapshot it used and which VM it restored to.

4. Use timestamps to track restore chain.

5. Helps in auditing rollback activity.

NEW QUESTION: 155

How do you create a dual-homed VM (default pod + Multus external)?

Answer:

See the Explanation.

Explanation:

1. Define two network interfaces:

networks:

- name: default

pod: {}

- name:

extnet

multus:

networkName: ext-bridge-net

interfaces:

- name: default

masquerade: {}

- name: extnet

bridge: {}

2. Confirm both eth0 and eth1 are inside the VM.

3. Use eth1 for external and eth0 for internal.

4. Use cloud-init for routing preference.

5. Test both networks.

NEW QUESTION: 156

How do you confirm that the HyperConverged CR is created and healthy?

Answer:

See the Explanation.

Explanation:

1. Run: oc get hco -n openshift-cnv

2. Check CR status: oc describe hco kubevirt-hyperconverged -n openshift-cnv

3. Look for conditions: Available=True, Progressing=False, Degraded=False

4. Ensure all deployments are running: oc get deployments -n openshift-cnv

5. Check for errors in oc get events -n openshift-cnv

NEW QUESTION: 157

How do you enable maintenance mode for a node using the NodeMaintenance CR?

Answer:

See the Explanation.

Explanation:

1. Create a YAML:

apiVersion: nodemaintenance.kubevirt.io/v1

kind: NodeMaintenance

metadata:

name: maintenance-worker-1

spec:

nodeName: worker-1

2. Apply: `oc apply -f node-maintenance.yaml`
3. Monitor: `oc get nodemaintenance`
4. VMs should auto-migrate off the node.
5. Node is now in maintenance mode.

NEW QUESTION: 158

How do you validate file system integrity after cloning a VM disk?

Answer:

See the Explanation.

Explanation:

1. Start the VM with cloned disk.
2. Open console or SSH.
3. Run:
`fsck /dev/vdb`
4. Mount and inspect file content.
5. Validate boot partition if using cloned root disk.

NEW QUESTION: 159

How do you check the CDI cloning mechanism is functioning properly?

Answer:

See the Explanation.

Explanation:

1. Run:
`oc get dv -w`
2. Confirm phase transitions: Pending ImportScheduled Succeeded
3. Check CDI pods:
`oc get pods -l app=containerized-data-importer`
4. Inspect logs:
`oc logs <importer-pod-name>`
5. Validate cloneType is used when referencing PVCs.

NEW QUESTION: 160

How do you upgrade OpenShift Virtualization Operator without downtime?

Answer:

See the Explanation.

Explanation:

1. Go to Operators Installed Operators.
2. Select OpenShift Virtualization Operator Click Upgrade.
3. Ensure Upgrade strategy is Automatic or click Approve manually.

4. Wait for CSV status: Succeeded.
5. VMs should remain unaffected if not restarted.

NEW QUESTION: 161

How do you make cloud-init optional in a custom template?

Answer:

See the Explanation.

Explanation:

1. Use parameter substitution:
cloudInitNoCloud:
userData: "\${USER_DATA}"
2. Add USER_DATA parameter with required: false
3. Provide default or empty string if not set.
4. Skips cloud-init logic if not needed.
5. Supports flexible template usage.

NEW QUESTION: 162

How do you verify on which node a VM is running before and after migration?

Answer:

See the Explanation.

Explanation:

1. Run:
oc get vmi <vm-name> -o wide
2. Note NODE field before migration.
3. After running virtctl migrate <vm>, check again.
4. Ensure node name is different post-migration.
5. Confirms that migration occurred.

NEW QUESTION: 163

How do you check which port the VM is listening on inside the pod?

Answer:

See the Explanation.

Explanation:

1. Use: oc rsh <virt-launcher-pod>
2. Run: ss -tuln or netstat -tuln
3. Look for the required port (e.g., 22, 80).
4. Confirm service spec uses the same targetPort.
5. Exit the pod with exit.

NEW QUESTION: 164

How do you manually migrate all VMs off a node prior to drain?

Answer:

See the Explanation.

Explanation:

1. List VMs on the node:
`oc get vmi -A -o wide | grep <node-name>`
2. For each VM:
`virtctl migrate <vm-name>`
3. Wait for migration: `oc get vmim -w`
4. Confirm node no longer hosts any VMs.
5. Proceed with `oc adm drain`.

NEW QUESTION: 165

How do you identify the VM pod to use in a Kubernetes ClusterIP service?

Answer:

See the Explanation.

Explanation:

1. Run: `oc get pods -n <namespace> -l kubevirt.io/domain=<vm-name>`
2. Note the name of the virt-launcher pod.
3. This pod runs the actual VM and can be targeted in a Service.
4. Confirm it has a valid internal IP with: `oc get pod <pod-name> -o wide`
5. Use its label to target it in the Service selector.

NEW QUESTION: 166

How do you configure a readiness probe to detect when the VM is ready to serve traffic?

Answer:

See the Explanation.

Explanation:

1. In the VM YAML, under readinessProbe:
 readinessProbe:
 tcpSocket:
 port: 22
 initialDelaySeconds: 10
 periodSeconds: 5
2. Ensure SSH (port 22) is enabled in the guest.
3. Kubernetes will not send traffic to this VM until it passes.
4. Improves service-level health checking.
5. Useful with Services and Routes.

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NEW QUESTION: 167

How do you view which VMs were evicted during node drain?

Answer:

See the Explanation.

Explanation:

1. Run:
oc get events --sort-by=.lastTimestamp | grep <node-name>
2. Look for eviction messages related to VM pods.
3. Confirm VMs restarted on other nodes.
4. Use oc get vmi -A -o wide to check node reassignment.
5. Helps in migration verification.

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