Managing Virtual Machines with Red Hat OpenShift Virtualization

Varighed: 3 Days   Kursus Kode: DO316   Leveringsmetode: Company event (Firmakursus)

Beskrivelse:

Create and manage virtual machines on OpenShift using the Red Hat OpenShift Virtualization operator
Managing Virtual Machines with OpenShift Virtualization teaches the essential skills required to create and manage virtual machines (VM) on OpenShift using the Red Hat OpenShift Virtualization operator. This course does not require previous knowledge of containers and Kubernetes. This course provides:
- Skills required to create, access, and manage VMs on OpenShift clusters.
- Skills required to control usage and access of cpu, memory, storage, and networking resources from VMs using the same Kubernetes features that would also control usage and access to these resources for containers.
- Sample architectures to manage High Availability (HA) of VMs using standard Kubernetes features and extensions from OpenShift Virtualization.
- Strategies to connect VMs on OpenShift to data center services outside of their OpenShift cluster, such as storage and databases.
Note: This course is offered as a four day in person class, a five day virtual class or is self-paced. Durations may vary based on the delivery. For full course details, scheduling, and pricing, select your location then "get started" on the right hand menu.

Firmakursus

Med et firmakursus bliver jeres it-kompetenceudvikling målrettet jeres behov. Det betyder, at vi hjælper med at finde og sammensætte det helt rigtige kursusindhold og den helt rigtige form. Kurset kan afvikles hos os eller kunden, standard eller virtuelt.

Målgruppe:

- Virtual Machine Administrators interested in moving virtualized workloads from traditional Hypervisors to OpenShift Virtualization
- Kubernetes Administrators (Cluster Administrators, Clusters Engineers) interested in supporting containerized and virtualized workloads in the same OpenShift cluster
- Site Reliability Engineers interested in using GitOps and Ansible Automation to manage Virtual Machines on OpenShift

Agenda:

- Create VMs from installation media and disk images

- Access text and graphical consoles of a VM

- Connect to VMs using Kubernetes networking (services, ingress, and routes)

- Provision storage to VMs using Kubernetes storage (PVC, PV, and storage classes)

- Start, pause, and stop VMs

- Clone and snapshot VMs

- Connect VMs to external and extra networks (outside of the Kubernetes pod and service networks)

- Provision load balancer services for VMs and then use the services to enable SSH access to VMs

- Connect VMs to host storage and external storage

- Create VMs from VM Templates

- Migrate VMs from compatible hypervisors

Forudsætninger:

- DO180 - Red Hat OpenShift Administration I: Operating a Production Cluster

Yderligere Kurser:

- ■ DO280 - Red Hat OpenShift Administration II: Configuring a Production Cluster
- ■ DO322 - Red Hat OpenShift Installation Lab
- ■ DO380 - Red Hat OpenShift Administration III: Scaling Deployments in the Enterprise
- ■ RH124 - Red Hat System Administration I
- ■ RH295 - Red Hat Enterprise Linux Automation with Ansible and exam

Indhold:

Introduction to OpenShift Virtualization

Describe the features and use cases of OpenShift Virtualization.

Run and access Virtual Machines

Create, manage, inspect, and monitor virtual machines in Red Hat OpenShift Virtualization.

Configure Kubernetes network for Virtual Machines

Configure standard Kubernetes network objects and external access for VMs and virtual machine-backed applications.

Connect Virtual Machines to external networks

Configure node networking to connect virtual machines and nodes to networks outside the cluster.

Configure Kubernetes storage for Virtual Machines

Manage storage and disks for VMs in Red Hat OpenShift.

Virtual Machine template management

Create and manage templates to provision virtual machines.

Advanced Virtual Machine management

Snapshot, clone, and live migrate a virtual machine and initiate node maintenance.

Configure Kubernetes high availability for Virtual Machines

Configure Kubernetes resources to implement high availability for virtual machines.

Additional Information:

Technology considerationsAll deliveries require access to ROLE for the remote classroom environment. There is no local ILT version of the DO316 classroom

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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