

# Red Hat Certified OpenShift Administrator



## Online Course



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## COURSE MODULES

### 1. Manage OpenShift Container Platform

- o Use the web console to configure an OpenShift cluster
- o Use the command-line interface to config an OpenShift cluster
- o Query, format, and filter attributes of Kubernetes resources
- o Import, export, and configure Kubernetes resources
- o Locate and examine container images
- o Create and delete projects
- o Examine resources and cluster status
- o View logs
- o Monitor cluster events and alerts
- o Tshoot common container, pod, and cluster events and alerts

### 2. Deploy Applications

- o Deploy applications from resource manifests
- o Use Kustomize overlays to modify application configurations
- o Deploy apps from imgs, OpenShift templates, & Helm charts
- o Deploy jobs to perform one-time tasks
- o Manage application deployments
- o Work with replica sets
- o Work with labels and selectors
- o Configure services
- o Expose both HTTP & non-HTTP apps to external access
- o Work with operators such as MetalLB and Multus



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## **3. Manage Storage for Application Configuration and Data**

- o Create and use secrets
- o Create and use configuration maps
- o Provision Persistent Storage vols for block & file-based data
- o Use storage classes
- o Manage non-shared storage with StatefulSets

## **4. Configure Applications for Reliability**

- o Configure and use health probes
- o Reserve and limit application compute capacity
- o Scale applications to meet increased demand

## **5. Manage Application Updates**

- o Identify images using tags and digests
- o Roll back failed deployments
- o Manage image streams
- o Use triggers to manage images

## **6. Manage OpenShift Operators**

- o Install an operator
- o Delete an operator



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## 7. Manage Authentication and Authorization

- o Configure the HTTPasswd identity provider for authentication
- o Create and delete users
- o Modify user passwords
- o Create and manage groups
- o Modify user and group permissions

## 8. Configure Network Security

- o Configure networking components
- o Troubleshoot software defined networking
- o Create and edit external routes
- o Control cluster network ingress
- o Secure external and internal traffic using TLS certificates
- o Configure application network policies

## 9. Enable Developer Self-Service

- o Configure cluster resource quotas
- o Configure project quotas
- o Configure project resource requirements
- o Configure project limit ranges
- o Configure project templates



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## 10. Configure Application Security

- o Configure and manage service accounts
- o Run privileged applications
- o Create service accounts
- o Manage & apply permissions using security context constraints
- o Create and apply secrets to manage sensitive information
- o Configure application access to Kubernetes APIs
- o Configure Kubernetes CronJobs

## 11. Update OpenShift

- o Update an OpenShift cluster
- o Identify deprecated Kubernetes API usage
- o Update OpenShift Operators

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