Red Hat Certified Specialist in OpenShift Automation and Integration

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Online Course

Learn Remotely..!!

Course Modules

1. **Manage OpenShift with LDAP and OIDC identity providers**
   o Integrate OpenShift with LDAP
   o Integrate OpenShift with Red Hat SSO (Keycloak)
   o Manage multiple identity providers
   o Configure authentication
   o Configure and synchronize OpenShift groups
   o Resolve synchronization conflicts
   o Maintain group synchronization on a scheduled basis
   o Configure RBAC roles with users and groups
   o Create and use authentication tokens with kubeconfig files
   o Create authentication certificates with kubeconfig files
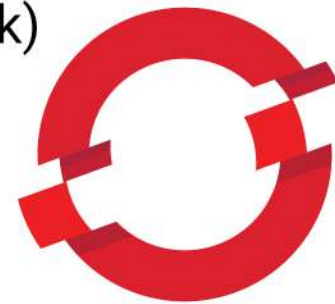
2. **Back up and restore app with OpenShift API**
   o Export and import a Kubernetes application
   o Export and import container images
   o Deploy the OADP operator
   o Configure a full application backup
   o Configure and use volume snapshots
   o Schedule a recurring backup
   o Restore applications

3. Manage workloads with cluster partitioning

- o Dedicate multiple cluster nodes to a specific workload
- o Configure and work with node labels and selectors

4. Manage workloads with pod scheduling

- o Configure workloads to run on dedicated cluster nodes
- o Prevent workloads from running on dedicated cluster nodes
- o Configure and work with node taints and tolerations
- o Configure and work with project tolerations
- o Configure application resiliency using pod disruption budgets
- o Configure cluster and project default settings
- o Configure and use affinity rules

5. Implement OpenShift GitOps

- o Deploy OpenShift GitOps for managing cluster administration
- o Deploy OpenShift GitOps for managing applications

6. Manage cluster monitoring and metrics

- o Tshoot performance & availability issues with appls & clusters
- o Configure and silence alerts

7. Provision and inspect cluster logging

- o Configure OpenShift logging to forward logs
- o OpenShift logging for short-term log retention and aggregation
- o Deploy OpenShift logging with Vector and Loki
- o Deploy the Event Router to log Kubernetes event

LEARN REMOTELY!!

The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.

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