

CS220

Creating and Configuring Production ROSA Clusters

Create and configure production-grade ROSA clusters as part of a larger AWS customer's footprint

Course Description

Creating and Configuring Production ROSA Clusters (CS220) teaches how to configure ROSA clusters as part of pre-existing AWS environments and how to integrate ROSA with AWS services commonly used by IT operations teams, such as Amazon CloudWatch.

Course content summary

- Create ROSA STS PrivateLink clusters
- Connect PrivateLink ROSA clusters to existing VPCs and enable administrators and developers to access those clusters
- Configure dedicated machine pools and node/pod autoscaling
- Configure node, cluster, and audit log forwarding to Amazon CloudWatch
- Configure authentication and group sync with Amazon Cognito

Audience for this course

- Platform Engineers, Cloud Administrators, System Administrators and other infrastructure-related IT roles who are responsible for providing and supporting infrastructure for applications deployed on AWS.
- Enterprise Architects, Site Reliability Engineers, DevOps Engineers, and other application-related IT roles who are responsible for designing infrastructure for applications deployed on AWS

Recommended training

- [CS120 - Introduction to Red Hat OpenShift Service on AWS](#) or equivalent experience: "I know how to create and access a public ROSA cluster."
- AWS administration at the level of either **AWS Certified SysOps Administrator - Associate** or **AWS Certified Solutions Architect - Associate**, or equivalent experience: "I know how to manage AWS infrastructure services."
- Basic knowledge of OpenShift from [DO080 Technical Overview](#): "I know basic concepts of OpenShift and containers."

Outline for this course

Private Red Hat OpenShift on AWS (ROSA) Clusters

Create a PrivateLink ROSA cluster with STS and enable developers or administrators to access the API and router endpoints of the cluster.

Node and Pod Autoscaling

Configure a ROSA cluster and a workload to dynamically scale the number of cluster nodes and application pods according to load.

Monitor ROSA Clusters with Amazon CloudWatch

Configure ROSA clusters to forward logs to Amazon CloudWatch for long-term storage, aggregation, and analysis, and to authenticate OpenShift users by using Amazon Cognito.

As a result of attending this course, students can create private ROSA clusters which are integrated with AWS infrastructure services typically employed by IT operations teams and ready to start onboarding applications and developers.