CS221

Integrating ROSA Applications with AWS Services

Course Description

- Integrate applications deployed on ROSA with AWS services in a way that cluster administrators and platform engineers retain control of credentials and roles required by applications to access AWS services instead of exposing those credentials to application developers.

Recommended training

- **CS220 - Create and Configure Production Red Hat OpenShift on AWS (ROSA) Clusters** or equivalent experience: "I know how to create and access a private 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"
- It is recommended that learners also enroll in the [Red Hat Certified OpenShift Administration certification courses](#) in addition to taking CS220 and CS221

Course Outline

Deploy Applications From External Registries

Deploy applications on Red Hat OpenShift Service on AWS (ROSA) from private container image repositories in external centralized container image registries.

Provide Amazon Storage Volumes for Applications

Configure Amazon Elastic Block Storage (EBS) or Amazon Elastic File System (EFS) volumes that meet the cost, performance, and sharing requirements of their applications.

Configure Application Access to AWS Services

Configure applications for access to shared AWS services by using Kubernetes service accounts, and provision dedicated AWS services by using Kubernetes custom resources.

OpenShift and AWS Application Observability

Configure ROSA clusters to forward application logs to Amazon CloudWatch and application metrics to Amazon Managed Service for Prometheus.

Custom Domains for ROSA Applications

Expose applications to internet users with secure URLs by using human-readable DNS domains.