CREATING AND CONFIGURING PRODUCTION ROSA CLUSTERS (CS220)

Course Code: 832012

Learn how to configure ROSA clusters as part of pre-existing AWS environments and how to integrate ROSA with AWS services.

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

What You'll Learn

Impact on the Organization

- Red Hat OpenShift Service on AWS (ROSA) is a turnkey application platform that provides a managed Red Hat OpenShift service that runs natively on Amazon Web Services (AWS) to enable organizations to increase operational efficiency, refocus on innovation, and quickly build, deploy, and scale applications. Red Hat OpenShift is the hybrid cloud platform that brings operational consistency to on-premise and different cloud environments.
- Organizations adopting ROSA are typically existing AWS customers with skills on using AWS services for a variety of business scenarios and need to integrate managed OpenShift clusters with their pre-existing AWS environments. These organizations are usually very security-conscious and require strong access controls and network security for all of their AWS services, including their ROSA clusters.

Impact on the Individual

- After completing CS220, 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.

Who Needs to Attend

Target Audience

- 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

Prerequisites

Recommended training

- DO120 - Introduction to Red Hat OpenShift on AWS (ROSA) 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.”

Technology considerations

- AWS environments are not currently provided for hands-on labs. Students must provide their own cloud accounts with sufficient AWS quotas and also be able to enable new services from the marketplace.
- Internet access is required to access AWS services by using the AWS console and the AWS CLI. It is also required to access the Red Hat Hybrid Cloud Console and associated Red Hat cloud services.
- Students must possess an active Red Hat customer portal account or a free Red Hat Developer program membership.

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