RH445
Red Hat High Availability Clustering for SAP Solutions

Course description

- Learn how to deploy, protect, and scale SAP infrastructure with Red Hat Enterprise Linux for SAP Solutions. This course teaches best practices for deploying SAP HANA and SAP S/4HANA in a high availability configuration. In addition, you will discover how to efficiently automate deployments with Red Hat Ansible Automation Platform and Red Hat supported Ansible roles specific to SAP.

Prerequisites for this course

- Students must have an SAP S-User with download permission
  - https://blogs.sap.com/2021/03/09/learn-all-about-s-user-ids/
  - SAP customers can download the installers if they have the license for the software. SAP Partners get dev and test licenses. The install software is good for 90 days without license (time-bombed).
- Complete the Red Hat Certified Engineer (RHCE) exam (EX294) or demonstrate equivalent Linux and Ansible experience.
- Red Hat Enterprise Linux High Availability Clustering (RH436)

Technology considerations

- Internet access is required to download and license the SAP HANA Express Edition.

Outline for this course

- **Introduction**
  - Learn the basics of scaling SAP on Red Hat Enterprise Linux
- **Introducing SAP Architecture**
  - Learn about the products in the sap portfolio, and how to plan your deployment on Red Hat Enterprise Linux.
- **Explaining Red Hat Enterprise Linux for SAP Solutions**
  - Learn about the RHEL for SAP solutions offering, and how it differs from a standard RHEL entitlement. Learn about the components of high availability on RHEL.
- **Explaining SAP HANA System Replication**
  - System replication in SAP HANA, learn about the scale up and scale out resource agents, multitarget replication, and failover in SAP HANA with RHEL High Availability.
- **Explaining SAP NetWeaver and S/4 High Availability**

- System replication with SAP NetWeaver and S/4, learn about the concepts of S/4HANA and NetWeaver in a Highly Available environment. Install the S/4 and NetWeaver resource agent. Learn about failover in these environments.

- **Automating SAP deployments with Ansible**
  - Automate deployments of HANA, NetWeaver, and S/4 with Red Hat Enterprise Linux System Roles.

- **Operation, Update, and Monitoring**
  - During this chapter we'll focus on the necessary Day 2 operations such as updates, pacemaker maintenance, and monitoring. Activities like manual failover, perform acceptance tests and check status on the HA cluster will be crucial to maintain integrity and high availability of your highly available SAP environment.