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Learning Style: Virtual Classroom

Technology: NetApp

Difficulty: Intermediate

Course Duration: 2 Days

ONTAP MetroCluster IP Implementation (MCCIPIW)

About this Course:

MetroCluster software is a unique high-availability and disaster-recovery solution. In this course, you learn how to cable and set up a MetroCluster environment. Using active, participatory exercises, you practice the configuration and verification steps. You also learn how to identify component failures and practice recovery steps.

Course Objectives:

- Describe the major architectural components of a MetroCluster environment
- Cable nodes and back-end IP switches
- Set up back-end IP switches
- Configure the clusters at both local and remote in a MetroCluster environment
- Set up a MetroCluster configuration and serve data to clients
- Detect and recover from failures in a MetroCluster environment
- Install and configure TieBreaker Manager software

Audience:

- NetApp Employees
- Partner Professional Service Implementation Engineers

Prerequisites:

The following courses and/or knowledge and skills are recommended prior to taking this course.

Required:

- MetroCluster Completion of ONTAP PS Professional Compliance Program or an equivalent program
- ONTAP Cluster Installation Workshop

Course Outline:

MODULE 1: METROCLUSTER IP OVERVIEW

- Review the basic concepts of MetroCluster high-availability (HA) and disaster recovery software
- Discuss the components of a MetroCluster IP configuration
- Review the hardware that MetroCluster IP configurations support
- Describe the tools and documentation that you need to configure a MetroCluster IP environment

MODULE 2: METROCLUSTER IP RACK AND CABLING

- Explain the disk requirements for MetroCluster IP configurations
- Explain the racking recommendations for MetroCluster IP configurations
- Describe the cable diagrams for MetroCluster IP configuration

MODULE 3: SWITCH CONFIGURATION

- Locate the MetroCluster IP Reference Configuration File (RCF) and firmware files
- Explain how to set up virtual LANs (VLANs) in MetroCluster IP configurations
- Explain how to upgrade and configure Cisco IP switches

MODULE 4: PREPARING THE CLUSTERS

- Configure disk ownership in a MetroCluster IP environment
- Configure a cluster

MODULE 5: METROCLUSTER CONFIGURATION

- Prepare two clusters for MetroCluster configuration
- Configure two clusters to become MetroCluster configurations
- Verify a MetroCluster configuration
- Configure a storage virtual machine (SVM) in a MetroCluster environment

MODULE 6: FAILURE SCENARIOS

- Show how to respond to component failures in a MetroCluster environment
- Perform planned and unplanned switchovers
- Complete the steps in a switchback
- Explain correct LIF placement

MODULE 7: METROCLUSTER TIEBREAKER MANAGER CONFIGURATION

- Explain the components of TieBreaker software
- Install TieBreaker software
- Configure TieBreaker software

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