NetApp

Learning Services Academy

MetroCluster Administration

Delivery: Instructor-led-training (ILT) Duration: 2 days Training Units: 24

Course Description

In this course, you learn the knowledge and skills necessary to administer an ONTAP MetroCluster system. You will review the specificity of MetroCluster environment and discover how they affect the daily operations. You will also extensively demonstrate how to manage component failures and complete site disaster to reduce the impact on your critical data and applications. Finally, you will learn about the transition capabilities from ONTAP MetroCluster FC to MetroCluster IP.

Role

Systems Administrators and Architects

Prerequisites

NCTSP, NCDA and NCIE-DP or equivalent ONTAP experience.

Objectives

This course focuses on enabling you to do the following:

- Define the Business Continuity solutions offered by NetApp.
- Review the ONTAP MetroCluster architectural principles.
- Understand the differences between MetroCluster FC and MetroCluster IP
- Demonstrate the MetroCluster specific concepts and commands.
- Understand the MetroCluster Data Protection and Tiering mechanisms.
- Describe resource provisioning on a MetroCluster system.
- Define the MetroCluster Maintenance procedures.
- Describe how to use NetApp tools for MetroCluster monitoring.
- Understand the MetroCluster FC to MetroCluster IP transition process.

Course Content

This course includes the following modules, lessons, and exercises:

Module	Lessons	Exercises
Module 1: Introduction to Metrocluster	• Business Continuity and Data Protection • MetroCluster history and evolution • MetroCluster types	• Connect to your lab and check your system. • Review the available documentation.
Module 2: MetroCluster IP architecture	• MetroCluster IP architectures • MetroCluster IP components • MetroCluster IP network configuration	• Navigate the different resources. • Explore your MetroCluster environment.
Module 3: MetroCluster Data Access	• MetroCluster connectivity • Protocol access in MetroCluster	• Create multiple storage VMs. • Review the created resources. • Connect your resources to different hosts.
Module 4: Data Protection and Tiering	• Data Protection implementation with MetroCluster. • Data Mobility and Tiering.	• Backup data to a third cluster • Use FabricPool to tier cold data to S3
Module 5: Monitoring MetroCluster	• MetroCluster specific logs and components • Monitoring tools	• Collect MetroCluster logs manually. • Install and use MCDC.
Module 6: MetroCluster Maintenance	• Maintenance procedures on MetroCluster • Switch maintenance and upgrade. • ONTAP Mediator upgrade	• Upgrade ONTAP. • Upgrade the Mediator.
Module 7: Failover workflows	• Review the component failures in MetroCluster • Review the different disaster scenarios	• Fail different components. • Run planned and unplanned switchovers.
Appendix A: MetroCluster Transition	• Transition support from MCFC to MCIP • Process workflow	No additional labs

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