

Implementing Microsoft Exchange on NetApp Storage Systems

Code:	NA-MSEXC
Length:	3 days
URL:	View Online

In this course you will learn how to optimize Microsoft Exchange Server 2010 in a NetApp storage environment. Through lecture and hands-on labs you will learn architecture planning, data migration, backup and restore, disaster recovery, clustering and troubleshooting. By the end of this course, you will be able to leverage the power of NetApp technology with Microsoft Exchange Server 2010.

Skills Gained

- By the end of this course, you will be able to:
- Describe the benefits of running Exchange 2010 on a NetApp storage system.
- Perform Exchange 2010 storage planning, implementation, and administration.
- Describe the Exchange backup and restore process.
- Describe differences when using Data ONTAP 8.x Cluster-Mode
- Configure an Exchange 2010 server to use NetApp storage systems as primary storage
- Back up and verify an Exchange database using SnapManage for Microsoft Exchange
- Restore data using SnapManage for Microsoft Exchange
- Configure Exchange 2010 Disaster Recovery through SnapMirror Deploy Exchange 2010 with Database Availability Group
- Configuring and Administering SnapManage for Microsoft Exchange for Database Availability Group
- Configure Exchange 2010 Protection through SnapVault
- Performance Monitoring Exchange 2010 and NetApp Storage Systems
- Troubleshooting Exchange 2010 and NetApp Storage Systems

Who Can Benefit

- The target audience is customers, systems engineers, and professional services engineers.

Prerequisites

- The following pre-requisites or equivalent knowledge are required for this course:
- Data ONTAP 7-Mode Administration (D7ADM)
- Microsoft Course 10135: Configuring, Managing and Troubleshooting Microsoft Exchange Server 2010

Course Details

Implementing Microsoft Exchange on NetApp Storage Systems

- Module 1 Exchange 2010 Architectures and NetApp Storage Concepts Describe the main architecture and components of an Exchange deployment
- List the key differences that are introduced with Exchange Server 2010
- Explain the NetApp storage concepts and functionality that are most relevant to Exchange 2010 deployments
- Utilize your classroom lab equipment to complete student lab exercises
- Module 2 Exchange 2010 Solution Design, NetApp Storage Planning and Sizing Explain typical deployment scenarios for Exchange 2010
- Summarize the main factors to consider when you plan NetApp storage for Exchange deployments
- Use the Microsoft Exchange storage calculator to help you to plan for an Exchange 2010 deployment on NetApp
- Module 3 Preparing for an Exchange 2010 Deployment on NetApp Storage Describe the installation process for Exchange Server 2010
- Prepare and configure the NetApp storage systems and Exchange servers
- Install and configure SnapDrive for Windows
- Install and configure SnapManager for Microsoft Exchange (SME)
- Plan for an Exchange Server upgrade or migration from an Exchange implementation
- Module 4 Exchange 2010 and NetApp Data ONTAP Operating in Cluster-Mode Explain basic terminology for Data ONTAP operating in Cluster-Mode
- Identify the similarities and differences between Data ONTAP operating in 7-Mode and operating in Cluster-Mode
- List the main benefits of utilizing Data ONTAP operating in Cluster-Mode
- Module 5 Backing Up and Restoring Exchange 2010 on NetApp Storage Describe the backup setting options that are available with SnapManager for Microsoft Exchange (SME)
- Use SME to perform an Exchange 2010 backup
- Describe the recovery setting options that are available with SME
- Use SME to perform an Exchange 2010 restore
- Describe some of the alternate backup solutions that are available for Exchange 2010 deployments on NetApp storage
- Module 6 Exchange 2010 and SnapMirror Software Describe SnapMirror functionality within a Microsoft Exchange deployment
- Use SnapMirror software for disaster recovery of Exchange 2010
- Explain how the failover and failback processes work with SnapMirror software
- Module 7 Exchange 2010 and SnapVault Software Describe SnapVault functionality within a Microsoft Exchange deployment
- Use SnapVault to archive and restore Exchange 2010 data
- Module 8 NetApp Single Mailbox Recovery Explain the features, functionality, and benefits of Single Mailbox Recovery (SMBR) for an Exchange deployment
- Use SMBR to perform a single mailbox recovery
- Module 9 Troubleshooting Exchange 2010 and Issues with SnapManager for Exchange Troubleshoot common issues for Exchange 2010 deployments on NetApp storage
- Explain viable solutions for common issues for Exchange 2010 deployments on NetApp storage
- Lab Exercises
- Lab 1-1 View the Exchange 2010 server implementation

- Lab 1-2 View the Exchange 2010 Mailboxes
 - Lab 1-3 Send an email message
 - Lab 1-4 Create a two-member DAG
 - Lab 2-1 Use the IMT
 - Lab 2-2 Use the Microsoft sizing tool
 - Lab 2-3 Calculate aggregate, volume and LUN layout
 - Lab 3-1 Prepare for iSCSI connectivity between SnapDrive and storage systems
 - Lab 3-2 (Optional) Allow OnCommand System Manager firewall access
 - Lab 3-3 Install and configure SnapDrive for Windows
 - Lab 3-4 Install SnapManager for Exchange on MB1
 - Lab 3-5 Verify settings for primary and secondary aggregates
 - Lab 3-6 Create volumes on the primary storage system
 - Lab 3-7 Create Qtrees to contain LUNs
 - Lab 3-8 Use SnapDrive to create LUNs to contain Microsoft Exchange data
 - Lab 3-9 Move MB1 Mailbox Server data to NetApp storage
 - Lab 3-10 Move MB2 Mailbox Server data to NetApp storage (repeat task 6)
 - Lab 4-1 Start Microsoft LoadGen
 - Lab 4-2 Perform a VOL move using OnCommand System Manager
 - Lab 4-3 Perform Rapid Reseed using PowerShell script
 - Lab 5-1 Configure the Database Availability Group (DAG)
 - Lab 5-2 Back up the database using SnapManager for Exchange
 - Lab 5-3 Restore Microsoft Exchange data using SnapManager for Exchange
 - Lab 6-1 Setting up SnapMirror relationships
 - Lab 6-2 Update a SnapMirror destination using SnapDrive for Windows
 - Lab 6-3 Set up SnapMirror automatic updates using SnapManager for Exchange
 - Lab 7-1 Using SnapManager to create a Protection Manager Datasets
 - Lab 7-2 Adding login credentials and granting SnapVault host access
 - Lab 7-3 Adding a resource pool to Protection Manager
 - Lab 7-4 Scheduling backup operations
 - Lab 7-5 Using SnapManager to create a Protection Manager Dataset
 - Lab 8-1 Install Single Mailbox Recovery
 - Lab 8-2 Delete Exchange mailbox items
 - Lab 8-3 Connect a drive to a SnapVault backup to access an .edb archive
 - Lab 8-4 Restore Exchange mailbox items
 - Lab 8-5 Using the Find tool
 - Lab 9-1 Review a number of common root causes
 - Lab 9-2 Locate the SnapManager for Exchange operation reports
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