

Basic NetApp Configuration and Administration

Code:	NA-BNCA
Length:	2 days
URL:	View Online

Learn how to configure the basic technologies of the NetApp Data ONTAP operating system clustered Data ONTAP and Data ONTAP operating in 7-Mode. Through lectures and hands-on exercises, learn how to create aggregates, storage virtual machines (SVMs), virtual interfaces (VIFs), FlexVol volumes, qtrees, Snapshot copies, and more. NOTE: The term storage virtual machine (SVM) is equivalent to the term virtual server (Vserver).

Skills Gained

- By the end of this course you should be able to:
- Explain features of the Data ONTAP operating system
- Use the CLI and OnCommand System Manager to identify storage components
- Configure storage systems and storage virtual machines (SVMs) for NAS and SAN client access
- Create FlexVol volumes, qtrees, and LUNs
- Manage Snapshot copies and FlexClone software
- Manage volume move and storage efficiency

Who Can Benefit

- NetApp customers, IT generalists, and academic alliance students

Prerequisites

- Storage Fundamentals WBT
- Introduction to NetApp Products WBT

Course Details

Basic NetApp Configuration and Administration

- Module 1 Getting Started with Data ONTAPList basic storage concepts such as aggregates, RAID groups, volumes, qtrees, and LUNs
- Describe Data ONTAP features such as Snapshot copies, unified storage, and storage efficiency
- Describe the similarities and differences between the 7-Mode and clustered Data ONTAP operating systems
- Use the CLI and GUI for administrative purposesModule 2 Hardware BasicsDescribe the NetApp storage system hardware platforms and the types of disks that they support

- Describe the hardware components of NetApp storage controllers
- Use OnCommand System Manager or the CLI to identify hardware components in Data ONTAP operating in 7-Mode and the clustered Data ONTAP operating system
Module 3 Creating and Managing Aggregates Describe aggregates and RAID groups
- Create aggregates in Data ONTAP operating in 7-Mode
- Create aggregates in the clustered Data ONTAP operating system
- Manage aggregates
Module 4 Managing NAS Client Access Configure NAS client access in Data ONTAP operating in 7-Mode
- Configure data storage virtual machines (SVMs*) for NAS client access in clustered Data ONTAP
- Create FlexVol volumes and qtrees
Module 5 Managing SAN Client Connections Describe SAN protocol implementation in Data ONTAP operating in 7-Mode and the clustered Data ONTAP operating system
- Use OnCommand System Manager to create iSCSI-attached LUNs
- Use NetApp SnapDrive for Windows to create and format iSCSI-attached LUNs
- Access and manage a LUN from a Windows host
Module 6 Managing Volumes Explain the relationship between space guarantees, volumes, and aggregates
- Define thin provisioning and explain how it is used
- Define deduplication and describe the benefits that it provides
- Use OnCommand System Manager to set quotas
Module 7 Managing Snapshot Copies Define the function of Snapshot copies
- Create and delete a Snapshot copy
- Create Snapshot policies in the clustered Data ONTAP operating system
- Restore a volume from a Snapshot copy
- Create FlexClone volume clones that are backed by Snapshot copies
Module 8 Steps to Certification Recall the steps to NetApp Certification Lab Exercise
- Lab 1-1 Enter Commands in the Data ONTAP CLI
- Lab 1-2 Add a 7-Mode storage system to System Manager
- Lab 1-3 Add a cluster to System Manager
- Lab 1-4 Configure the SNMP public community name for clustered Data ONTAP
- Lab 2-1 Use System Manager to investigate hardware components
- Lab 2-2 Use CLI commands to investigate hardware components
- Lab 3-1 Create an aggregate on a 7-Mode storage system
- Lab 3-2 Creating an aggregate in clustered Data ONTAP
- Lab 4-1 Configure the prerequisites for client access
- Lab 4-2 Configure CIFS setup for a 7-Mode storage system
- Lab 4-3 Enable the NFS protocol
- Lab 4-4 Configure multiprotocol access on a 7-Mode storage system
- Lab 4-5 Create a volume in Data ONTAP operating in 7-Mode
- Lab 4-6 Create qtrees on a 7-Mode storage system
- Lab 4-7 Create shares for CIFS clients on a 7-Mode storage system
- Lab 4-8 Export volumes and qtrees in Data ONTAP operating in 7-Mode
- Lab 4-9 Client-side task map a drive to a 7-Mode from a Windows client

- Lab 4-10 Client-side task mount volumes on a storage system from a Linux client
- Lab 4-11 Create a Vserver
- Lab 4-12 Configure data LIFs and CIFS setup
- Lab 4-13 Set up the Vserver management LIF
- Lab 4-14 Add host records in DNS for the SVM
- Lab 4-15 Enable the NFS protocol for a Data ONTAP cluster
- Lab 4-16 Set up name mapping for multiprotocol access
- Lab 4-17 Create volumes on the Vserver
- Lab 4-18 Create qtrees
- Lab 4-19 Mount volumes and qtrees into the Vserver namespace
- Lab 4-20 Create CIFS shares
- Lab 4-21 Change volume security styles
- Lab 4-22 Manage export policies
- Lab 4-23 Client-side task map a drive to a share from a Windows client
- Lab 4-24 Client-side task mount from a Linux client
- Lab 5-1 Enable iSCSI in Data ONTAP operating in 7-Mode
- Lab 5-2 Create volumes and qtrees that is suitable as containers for LUNs
- Lab 5-3 Configure SnapDrive Transport Protocol Settings
- Lab 5-4 Use the SnapDrive Management tool to establish iSCSI sessions
- Lab 5-5 Use SnapDrive to create a LUN on a Data ONTAP storage system
- Lab 5-6 Add the iSCSI protocol to be allowed on the SVM
- Lab 5-7 Create an iSCSI data LIF
- Lab 5-8 Start the iSCSI service on the Vserver
- Lab 5-9 Create volumes and qtrees that are suitable as containers for LUNs
- Lab 5-10 Configure SnapDrive for Windows Transport protocol settings
- Lab 5-11 Establish an iSCSI session with the SnapDrive iSCSI management tool
- Lab 5-12 Use SnapDrive to create a LUN on a clustered Data ONTAP SVM
- Lab 6-1 Enable storage efficiency for a FlexVol volume in 7-Mode Data ONTAP
- Lab 6-2 Run a deduplication operation in 7-Mode Data ONTAP
- Lab 6-3 Configure storage efficiency policies in clustered Data ONTAP
- Lab 6-4 Enable storage efficiency on Flexvol volumes in clustered Data ONTAP
- Lab 6-5 Run a deduplication operation in clustered Data ONTAP manually
- Lab 6-6 Assign multiple aggregates to a Vserver
- Lab 6-7 Move FlexVol volumes
- Lab 7-1 Create Snapshot copies of a volume on the Data ONTAP storage system CLI
- Lab 7-2 Create Snapshot copies of a volume on the clustered Data ONTAP CLI
- Lab 7-3 Create Snapshot copies using OnCommand System Manager
- Lab 7-4 Schedule Snapshot copies in 7-Mode and clustered Data ONTAP
- Lab 7-5 Restore a volume from a Snapshot copy in 7-Mode Data ONTAP
- Lab 7-6 Restore a volume from a Snapshot copy in clustered Data ONTAP
- Lab 7-7 Create a FlexClone volume clone on a 7-Mode storage system

- Lab 7-8 Create a FlexClone volume clone on a clustered Data ONTAP SVM

Schedule (as of 3)

Date	Location	
Jun 28, 2021 - Jun 29, 2021		Enroll
Aug 3, 2021 - Aug 4, 2021	Virtual	Enroll
Aug 3, 2021 - Aug 4, 2021	Virtual	Enroll
Sep 7, 2021 - Sep 8, 2021	Virtual	Enroll
Sep 7, 2021 - Sep 8, 2021	Virtual	Enroll
Oct 12, 2021 - Oct 13, 2021	Virtual	Enroll
Oct 12, 2021 - Oct 13, 2021	Virtual	Enroll
Nov 9, 2021 - Nov 10, 2021	Virtual	Enroll
Nov 9, 2021 - Nov 10, 2021	Virtual	Enroll
Dec 14, 2021 - Dec 15, 2021	Virtual	Enroll
Dec 14, 2021 - Dec 15, 2021	Virtual	Enroll

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