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NETAPP CERTIFICATION PROGRAM

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Cisco and NetApp FlexPod Design (NS0-170)

- [Best Practices in Deploying Cisco Nexus 1000V Series Switches on Cisco UCS B and C Series Cisco UCS Manager Servers White Paper](#)
- [Cabling the private cluster interconnect for NetApp CN1610 switches](#)
- Cisco Data Center Virtual Machine Fabric Extender (VM-FEX)
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- Cisco Nexus 5500 Series NX-OS Software Upgrade and Downgrade Guide, Release 6.0
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- Cisco Nexus 6001 Switch Data Sheet
- Cisco Nexus 7000 Series Switches Data
- [Cisco Nexus 9000 Series NX-OS High Availability and Redundancy Guide](#)
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- [Cisco NX-OS Licensing Guide](#)
- [Cisco NX-OS Software Virtual PortChannel: Fundamental Concepts 5.0](#)
- Cisco UCS 6300 Series Fabric Interconnect Hardware Installation Guide
- Cisco UCS Manager Configuration Common Practices and Quick-Start Guide
- Cisco UCS Manager GUI Configuration Guide, Release 2.2
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- Cisco UCS Performance Manager Administration Guide, Release 2.0.0
- [Cisco UCS Sizer for Enterprise Applications](#)
- [Cisco UCS Virtual Interface Card 1240 Data Sheet](#)
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- [Cisco Unified Computing System Ethernet Switching Modes](#)
- [Cisco Validated Design Overview Document](#)
- Classic Network Design Using Cisco Nexus 9000 Series Switches
- Clustered Data ONTAP 8.3 SAN Administration Guide
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- Clustered Data ONTAP 8.3: Logical Storage Management Guide
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- [Clustered Data ONTAP® 8.3 Network Management Guide](#)
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- [CN1601 and CN1610 Switch Setup and Configuration Guide](#)
- Config Advisor 4.4 Installation and Administration Guide
- Config Advisor Plug-ins Installation and Administration Guide
- CVD: FlexPod Datacenter with ACI Solutions Guide
- CVD: FlexPod Datacenter with Cisco UCS Mini and VMware vSphere 6.0 with IP-Based Storage
- CVD: FlexPod Datacenter with Citrix XenDesktop/ XenApp 7.7 and VMware vSphere 6.0 for 5000 Seats
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- [Description: Config Advisor](#)
- [Design Considerations for High Availability and Scalability in Blade Server Environments](#)
- Designing and Deploying a Cisco Unified Computing System SAN Using Cisco MDS 9000 Family Switches
- [FlexPod Data Center with Cisco Nexus 7000 and NetApp MetroCluster for Multisite Deployment](#)
- [FlexPod Data Center with Microsoft Fast Track Private Cloud 3 Design Guide](#)
- FlexPod Datacenter Technical Specifications
- FlexPod Datacenter with Cisco Secure Enclaves
- FlexPod Datacenter with Cisco UCS Mini and VMware vSphere 6.0 with IP-Based Storage

- FlexPod Datacenter with NetApp All Flash FAS, Cisco Application Centric Infrastructure, and VMware vSphere Design Guide
- [FlexPod Datacenter with NetApp All Flash FAS, Cisco Application Centric Infrastructure, and VMware vSphere Design Guide](#)
- FlexPod Datacenter with VMware vSphere 5.1 Update 1 and Cisco Nexus 9000 Application Centric Infrastructure (ACI) Design Guide
- FlexPod Datacenter with VMware vSphere 5.5 Update 1
- FlexPod Datacenter with VMware vSphere 5.5 Update 1 Design Guide
- FlexPod Datacenter with VMware vSphere 6.0 Design Guide
- FlexPod Express with VMware vSphere 6.0: Large Configuration
- FlexPod with Cisco UCS Mini Design Guide
- Industry/Product Knowledge
- iSCSI and FCoE: A Comparison
- [Microsoft Technet - Virtual Machine Live Migration Overview](#)
- NetApp Clustered Data ONTAP 8.3.x and 8.2.x An Introduction
- NetApp FAS2500 Series Datasheet
- NetApp FAS8000 Series Datasheet
- NetApp Hardware Universe
- NVA-0019-DESIGN
- OnCommand Insight Performance Guide
- OpenStack Deployment and Operations Guide
- Set up FCoE Connectivity for a Cisco UCS Blade
- SnapManager for Hyper-V 2.1.1 Installation and Administration Guide
- [Supported SMB 3.0 functionality](#)
- TR-3450 - High-Availability (HA) Pair Controller Configuration Overview and Best Practices
- TR-3884 FlexPod Datacenter Solutions Guide
- TR-4068: VMware vSphere 5 on NetApp Clustered Data ONTAP
- TR-4293 FlexPod Express Technical Specifications
- TR-4333: VMware vSphere 6 on NetApp Clustered Data ONTAP
- TR-4480 All Flash FAS SAN-Optimized Configuration
- [UCS Appliance Port Connectivity and Troubleshooting](#)
- [Unified Computing System Firmware Management Best Practices](#)
- Unified Computing System Technology Design Guide
- vCenter Operations Manager 5.8.5 Getting Started Guide
- vCenter Server Host and Management Guide Release 6.0 Update 2
- [VMware vCenter Server Datasheet -](#)
- VMware vSphere 6.0 Documentation Center
- [VMware vSphere Built On FlexPod With IP-Based Storage](#)
- vSphere Installation and Setup Guide - vSphere 6.0 Update 2
- vSphere Storage Guide, Release 6.0 Update 1
- VXLAN Overview: Cisco Nexus 9000 Series Switches

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- [Best Practices Using vSphere Web Client](#)
- [Cabling the private cluster interconnect for FAS80xx systems NetApp](#)
- [Cisco Application Centric Infrastructure](#)
- Cisco FlexPod Datacenter with VMware vSphere 6.0 Design Guide
- [Cisco Nexus 1000V Troubleshooting Guide, Release 4.0](#)
- Cisco Nexus 2000 Fabric Extender Data Sheet
- Cisco Nexus 2000 Series Fabric Extenders Data Sheet
- [Cisco Nexus 5000 Series NX-OS Interfaces Configuration Guide, Release 5.2](#)
- Cisco Nexus 5000 Series NX-OS Layer 2 Switching Configuration Guide, Release 5.1
- Cisco Nexus 5000 Series NX-OS Software Configuration Guide
- [Cisco Nexus 5000 Series Switches](#)
- [Cisco Nexus 5600 Series NX-OS Fibre Channel over Ethernet Configuration Guide, Release 7.x](#)
- Cisco Nexus 5600 Series NX-OS Quality of Service Configuration Guide, Release 7.x
- [Cisco Nexus 7000 Series NX-OS Quality of Service Configuration Guide](#)
- [Cisco Nexus 9000 series switch overview](#)
- Cisco UCS 5108 Server Chassis Installation Guide
- Cisco UCS 6200 Series Fabric Interconnect Hardware Installation Guide
- Cisco UCS 6324 Fabric Interconnect Data Sheet
- [Cisco UCS Central Software](#)
- Cisco UCS Central Software Datasheet
- [Cisco UCS Manager Configuration Common Practices and Quick-Start Guide](#)
- Cisco UCS Manager Firmware Management Guide, Release 3.1
- Cisco UCS Manager GUI Configuration Guide for Cisco UCS Mini, Release 3.0
- Cisco UCS Manager GUI Configuration Guide, Release 2.2
- [Cisco UCS Manager Troubleshooting Reference Guide](#)
- Cisco UCS Performance Manager 2.0 Datasheet
- Cluster Data ONTAP 8.3 Upgrade and Downgrade Guide
- Cluster Data ONTAP Administration Guide
- Cluster Data ONTAP Administration Guide
- [Cluster Management and Interconnect Switches](#)
- Clustered Data ONTAP 8.3 - Commands: Manual Page Reference
- Clustered Data ONTAP 8.3 File Access Management Guide for NFS
- Clustered Data ONTAP 8.3 SVM Root Volume Protection Express Guide
- Clustered Data ONTAP® 8.3 CIFS and NFS Multiprotocol Configuration Express Guide
- Clustered Data ONTAP® 8.3 Commands: Manual Page Reference
- Clustered Data ONTAP® 8.3 Data Protection Guide
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- Clustered Data ONTAP® 8.3 File Access Management Guide for NFS
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- CVD - FlexPod Datacenter with Microsoft Private Cloud Fast Track 4.0 and Cisco Nexus 9000 Series Switches
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- FlexPod Datacenter Technical Specifications

- [FlexPod Datacenter with NetApp All Flash FAS, Cisco Application Centric Infrastructure, and VMware vSphere](#)
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- [Installing the NetApp® NFS Plug-in 1.1.0 for VMware® VAAI](#)
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- [NetApp Cluster Data ONTAP Installation Workshop](#)
- [NetApp Clustered Data ONTAP 8.3 - Network Management Guide](#)
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- [NetApp Clustered Data ONTAP 8.3.x and 8.2.x](#)
- [NetApp Flash cache](#)
- [NetApp Hardware Universe](#)
- [NetApp Host Multipath Strategy](#)
- [NetApp KB 1015099 - How to setup SVM/CIFS for Hyper-V over SMB](#)
- [NetApp OnCommand Insight](#)
- [NetApp ONTAP: Data Protection](#)
- [NetApp Storage Subsystem - Technical FAQ](#)
- [Network Management Guide](#)
- [Nexus 5000 NPV FCoE with FCoE NPV Attached UCS Configuration Example](#)
- [OnCommand Performance Manager 2.1 Installation and Administration Guide](#)
- [OnCommand System Manager Data sheet](#)
- [Power Management for Blades and Power Capping](#)
- [Renaming a virtual machine and its files in VMware ESXi and ESX](#)
- [Roles for LIFs](#)
- [SnapManager 2.1.1 for Hyper-V Installation and Admin Guide](#)
- [Technical Overview of Virtual Device Contexts](#)
- [Thin Provisioning – What's The Scoop?](#)
- [TR-4015 - SnapMirror Configuration and Best Practices Guide for Clustered Data ONTAP](#)
- [TR-4129 - Namespaces in Clustered Data ONTAP](#)
- [TR-4333 - VMware vSphere 6 on NetApp Clustered Data ONTAP - Best Practices using vSphere Web Client](#)
- [TR-4505 - NetApp All Flash FAS Overview Data ONTAP 8.3.2](#)
- [UCS with VMware ESXi End-to-End Jumbo MTU Configuration Example](#)
- [Understanding and Configuring Cisco UCS Maintenance Policy](#)
- [Verifying sufficient free disk space for an ESX/ESXi virtual machine](#)
- [Virtual Port Channel Operations](#)
- [Virtual PortChannel Quick Configuration Guide](#)
- [Virtual Storage Console 6.2 for VMware vSphere - Installation and Administration Guide](#)
- [vmk0 management network MAC address is not updated when NIC card is replaced or vmkernel has duplicate MAC address](#)
- [vSphere Installation and Setup](#)
- [vSphere Networking Guide ESXi 6.0 Update 2](#)
- [vSphere Storage](#)
- [vSphere Storage Guide - ESXi 6.0](#)

NetApp Certified Data Administrator, ONTAP (NS0-158)

- 9.1RC1 Administrator Authentication and RBAC Power Guide
- 9.1RC1 CIFS and NFS Multiprotocol Configuration Express Guide
- 9.1RC1 CIFS Reference
- 9.1RC1 Cluster Management Using OnCommand System Manager
- 9.1RC1 Commands: Manual Page Reference
- 9.1RC1 Data Protection Tape Backup and Recovery Guide
- 9.1RC1 Data Protection Using SnapMirror and SnapVault Technology
- 9.1RC1 Disks and Aggregates Power Guide
- 9.1RC1 Fabric-attached MetroCluster Installation and Configuration Guide
- 9.1RC1 FlexArray Virtualization Implementation Guide for Third-Party Storage
- 9.1RC1 FlexArray Virtualization Installation Requirements and Reference
- 9.1RC1 High-Availability Configuration Guide
- 9.1RC1 Logical Storage Management Guide
- 9.1RC1 MetroCluster Management and Disaster Recovery Guide
- 9.1RC1 NetApp Volume Encryption Power Guide
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- [Name services fail due to multiple default gateways with the same metric](#)
- 9.1RC1 NFS Configuration Power Guide
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- 9.1RC1 SVM Disaster Recover Preparation Express Guide
- 9.1RC1 SVM Root Volume Protection Express Guide
- 9.1RC1 System Administration Reference
- Adding a second controller to create an HA pair for clustered environments only
- Best Practices for Scalable SAN ONTAP 9
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- [CN1601 and CN1610 Switch Setup and Configuration Guide](#)
- Hardware Universe
- [What does partial giveback mean in Clustered Data ONTAP?](#)
- Navigating VSC 6.2 for VMware vSphere
- OnCommand Cloud Manager 3.0 Installation and Setup Guide
- OnCommand Performance Manager 7.1 - User Guide
- ONTAP 9 Cluster Expansion Guide
- ONTAP Cloud 9.0 for Amazon Web Services Release Notes
- [Restoring a Vserver's root volume](#)
- [Sysstat MAN Page](#)
- [T10.org Thin Provisioning](#)
- [NetApp Data Fabric Architecture Fundamentals](#)

NetApp Certified Implementation Engineer – Data Protection (NS0-511)

- Clustered Data ONTAP 8.3 SAN Administration Guide
- Clustered Data ONTAP 8.3 Commands Manual
- Clustered Data ONTAP 8.3 System Administration Guide for Cluster Administrators
- Clustered Data ONTAP 8.3 SAN Administration Guide
- Clustered Data ONTAP 8.3 Data Protection Guide
- Clustered Data ONTAP 8.3 Protection Administration Course
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- Clustered Data ONTAP 8.3 RC2 Release Notes
- Clustered Data ONTAP 8.3 Volume Backup Using SnapVault Express Guide
- Clustered Data ONTAP 8.3 Volume Disaster Recovery Preparation Express Guide
- Clustered Data ONTAP 8.3 Logical Storage Management Guide
- Clustered Data ONTAP 8.3 Reference Index
- Clustered Data ONTAP 8.3 High-Availability Configuration Guide
- Clustered Data ONTAP 8.3 Upgrade and Revert/ Downgrade Guide
- OnCommand System Manager – Managing clustered Data ONTAP Using the GUI
- [OnCommand Workflow Automation 2.2: Installation and Setup Guide](#)
- OnCommand Using OnCommand System Manager – Managing clustered Data ONTAP Using the GUI
- OnCommand Workflow Automation Workflow Developer's Guide
- OnCommand Workflow Automation Release Notes
- OnCommand Unified Manager 6.2 Administration Guide
- Cluster Management Using OnCommand System Manager
- [SnapProtect online articles](#)
- SnapProtect Management Software 10.0 Express Guide
- NetApp Integrated Data Protection
- MetroCluster Management and Disaster Recovery Guide
- MetroCluster Installation and Configuration Guide
- MetroCluster Service Guide Tiebreaker Software 1.0 Installation and Configuration Guide
- SnapMirror FAQ for clustered Data ONTAP
- Technical Report 4015 SnapMirror Configuration and Best Practices Guide for Clustered Data ONTAP
- SnapProtect Express Guide for VMware vSphere: Part No. 215-09071_A0
- SnapProtect Solution Administration ILT course
- Snap Creator Framework 4.1.1 Administration Guide
- SnapVault FAQ cDOT
- SVM Root Volume Protection Express Guide
- TR-4015: SnapMirror Configuration and Best Practices Guide for Clustered Data ONTAP
- TR-4210: Operational How-To Guide NetApp Snapshot Management
- TR-4264: Deploying VMware vCenter Site
- TR-4302: Microsoft SQL Server and SnapManager for SQL Deployment Guide
- Recovery Manager 5 on clustered Data ONTAP
- [myautosupport.netapp.com](#)
- NetApp Interoperability Matrix
- Virtual Storage Console 5.0 for VMware vSphere
- [Synergy](#) (NetApp Partner Access Only)

NetApp Certified Implementation Engineer – SAN, ONTAP (NS0-506)

- Clustered Data ONTAP 8.3RC2 SAN Administration Guide
- Clustered Data ONTAP 8.3RC2 SAN Configuration Guide
- Clustered Data ONTAP 8.3 Upgrade and Revert/Downgrade Guide
- Clustered Data ONTAP 8.3 Physical Storage Management Guide
- Cluster Management Using OnCommand System Manager 8.3 RC2
- Clustered Data ONTAP 8.3 Cluster Expansion Express Guide
- Clustered Data ONTAP 8.3 iSCSI Configuration for Windows Express Guide
- Clustered Data ONTAP 8.3 Commands Manual
- Config Advisor 4.2 Installation and Administration Guide
- Cisco Nexus 5500 Series NX-OS SAN Switching Configuration Guide, Release 7.x
- Cisco Nexus 5000 Series NX-OS Fibre Channel over Ethernet Configuration Guide
- Nexus 5000 NPIV FCoE with FCoE NPV Attached UCS Configuration Example
- Cisco MDS 9000 Family CLI Configuration Guide
- Cisco Nexus 7000 Series NX-OS Interfaces Configuration Guide, Release 5.x
- Fabric Configuration Guide, Cisco DCNM for SAN, Release 6.x
- Fabric OS Administrators Guide 7.3.0
- Fabric OS Troubleshooting and Diagnostics Guide 7.3.0
- Interoperability Matrix Tool 3.50 User Guide
- Hardware Universe
- TR4080 Best Practices for Scalable SAN in Clustered Data ONTAP 8.2
- TR-4068 v2.0 - VMware vSphere 5 on NetApp Clustered Data ONTAP Best Practices
- TR-3800v2 FCoE End to End Deployment Guide June2011.pdf
- TR-4182 - Ethernet Storage Design Considerations and Best Practices for Clustered Data ONTAP Configurations
- TR-4017 Fiber Channel Best Practices
- Before Contacting Technical Support (Cisco)
- KB ID: 8010227 OEM: What Twinax cables are supported

NetApp Certified Storage Associate – Hybrid Cloud (NS0-146)

- [Getting started with AWS](#)
- [Cloud Fundamentals](#)
- [OnCommand Cloud Manager 3.0 Installation and Setup Guide](#)
- [NetApp Private Storage for Cloud](#)
- [OnCommand Cloud Manager 3.0 Storage System Management Guide](#)
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NetApp Certified Support Engineer (NS0-191)

- Clustered Data ONTAP 8.3 Command Map for 7-Mode Administrators
- NetApp My Autosupport
- Upgrade and Revert/Downgrade Guide
- [Troubleshooting Workflow: AutoSupport messages are not received by NetApp \(HTTP/SMTP\) or partner \(SMTP\)](#)
- [NetApp KB: FAQ: Common EMS messages for Vscan](#)
- Clustered Data ONTAP 8.3 Commands: Manual Page Reference
- Upgrade Data ONTAP for FAS/V32XX, SA320, FAS/V62XX, SA620 systems to avoid Firmware issues that might cause a system outage when a motherboard, SAS PCI Card, or NVRAM8 is replaced
- System-Level Diagnostics Guide
- Clustered Data ONTAP 8.3 Data Storage Management Guide
- 62xx systems Replacing a controller module for all operating environments
- [Best Practices Guide for Clustered Data ONTAP 8.2.x and 8.3.x Windows File Services](#)
- Installing or Replacing the IOX module on a 62xx System
- Clustered Data ONTAP 8.3 Physical Storage Management Guide
- OnCommand Plugin for Microsoft Administration Guide 4.1
- SAN Administration Guide
- How to troubleshoot AutoSupport delivery when using SMTP
- Clustered Data ONTAP 8.3 Data Protection Guide
- [SAN Configuration Guide](#)
- [NetApp KB: How to identify spare disks for root-data partitioning in clustered Data ONTAP 8.3](#)
- OnCommand Unified Manager 6.4
- Administration Guide
- [NetApp KB 3014769 - FAQ: Advanced Disk Partitioning rules](#)
- FAQ: Performance Archives: Performance First Failure Data Collection for clustered Data ONTAP 8.3 and later
- OnCommand Performance Manager 2.1 Installation and Setup Guide
- OnCommand Unified Manager 6.4
- Logical Storage Management Guide
- Cluster Peering Express Guide
- File Access Management Guide for CIFS
- Clustered Data ONTAP® 8.3 System Administration Guide
- OnCommand Performance Manager 2.1 User Guide
- [MetroCluster™ Installation and Configuration Guide](#)
- [Securing NFS access using export policies](#)
- [NetApp KB: FAQ: Consistency Point](#)
- [Commands for diagnosing network problems](#)
- Clustered Data ONTAP 8.3 Logical Storage Management Guide
- [NetApp Storage Performance Primer](#)
- Network Management Guide
- TR-3966 NetApp Data Compression and Deduplication Deployment and Implementation Guide
- OnCommand® Unified Manager Performance Advisor Administration Guide
- How to troubleshoot unexplained takeovers or reboots
- GUI for NetApp Support Tool community site
- [Flash Pool Implementation Guide TR-4070](#)
- [Flash Cache Best Practice Guide](#)
- [How to disable aggregate snapshots in clustered Data ONTAP](#)
- Fault LED stays lit after DC under-voltage event
- [Name Services Best Practices Guide](#)
- [NetApp KB: What is deswizzler or deswizzling?](#)
- Configuring a MetroCluster system with SAS disk shelves and FibreBridge 6500N bridges in 7-Mode
- CIFS File Access Reference Guide
- SnapManager® 7.2 for Microsoft® SQL Server®
- Clustered Data ONTAP 8.2 Physical Storage Management Guide
- Data ONTAP 8: How does disk ownership of NetApp Shared Storage work and what are the requirements?
- Chassis fan FRU failure on 32xx systems
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- [How to capture packet traces on Data ONTAP 8 Cluster-Mode systems](#)
- [Data ONTAP 8.3 Reference - cluster statistics show](#)
- [Clustered Data ONTAP® 8.3 High-Availability Configuration Guide](#)
- [Clustered Data ONTAP® 8.2 Physical Storage Management Guide](#)
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- [Data ONTAP® 8.2 Network Management Guide For 7-Mode](#)
- [Triage Template for OnCommand Unified Manager 6.x](#)
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- [How to determine if you have high efficiency power supplies \(HE PSU\) in the disk shelf](#)
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- [Data ONTAP® 8.2 Commands: Manual Page Reference For 7-Mode, Volume 2](#)
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NetApp Certified Storage Installation Engineer, ONTAP (NS0-180)

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- Advanced Disk Partitioning Technical FAQ, NetApp, January 2015
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- Storage Subsystem Technical FAQ, James Wright, March 2015
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- Nondisruptive Operations (NDO) Technical FAQ, Jay Bounds, March 2015
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- Networking components of a cluster, NetApp, 2015
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