

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VERITAS Veritas NetBackup 8.3: Advanced Administration

CODE: LENGTH: PRICE:

VER_NB-8.3 AA 40 Hours (5 days) kr33,000.00

Description

Acquire the skills to make your data protection strategy successful with the *Veritas NetBackup 8.3: Advanced Administration* course. You will learn advanced NetBackup topics, including NetBackup performance, security, disaster recovery, application and database protection on physical and virtual machines, and protecting data backed up to and from the cloud. This course also covers using NetBackup to manage Oracle, Microsoft Exchange, Microsoft SQL, Microsoft SharePoint, and SAP HANA database backups and restores along with other modern workloads like Red Hat Virtualization and Nutanix Acropolis Hypervisor. NetBackup APIs, Parallel Streaming Framework, Universal Shares, and Veritas Smart Meter are also discussed in this course.

Hands-On

This course includes practical hands-on lab exercises to apply your new skills in a virtual NetBackup domain. At the start of class students will choose between Windows-based or Linux-based NetBackup servers to perform lab exercises.

Objectives

By the completion of this course, you will be able to:

• Improve NetBackup performance by addressing bottlenecks and becoming familiar with NetBackup performance enhancing features.

• Ensure your NetBackup environment and data is secure using security certificates, authentication, authorization, auditing, and encryption.

• Prepare for common disasters and plan for disaster recovery using optimized duplication and Auto Image Replication.

• Optimize NetBackup deduplication storage and use by understanding and managing performance enhancing features for backups and restores, and configuring MSDP catalog protection policies.

• Configure NetBackup to back up and restore Oracle, Microsoft Exchange, Microsoft SQL, Microsoft SharePoint and SAP HANA databases.

- Discuss strategies for Oracle, Microsoft Exchange, Microsoft SQL, and Microsoft SharePoint database recovery.
- · Configure, run, and manage backups for applications running in virtual machines.
- Use NetBackup to protect modern workloads like Red Hat Virtualization and Nutanix Acropolis Hypervisor.
- Configure, run, and manage backups using NDMP filers with NetBackup. Manage NetBackup cloud storage and cloud backups.
- Work with Veritas Smart Meter and NetBackup APIs. Integrate NetBackup and Veritas Resiliency Platform.
- Configure NetBackup for Replication Director. Configure NetBackup integration with Access Appliance 3340 (7.4.2).
- Configure Bare Metal Restore. Configure local and remote NDMP backups.

Audience

This course is intended for NetBackup system administrators, system engineers, technical support personnel, and system integration and development staff who are responsible for implementing new and advanced NetBackup 8.3 features and functions.

Prerequisites

Students should be familiar with general network and storage concepts, and the administration and configuration of Windows or Linux operating systems. Students must also have one to three years of experience with basic NetBackup administration, configuration, and operation. These prerequisites can be met by attending any version of the NetBackup Administration course plus additional on-the-job experience.

Programme

Securing Backup Data • Understanding security concerns in a backup environment • Encrypting NetBackup deduplication data

- Using NetBackup client encryption Using NetBackup Key Management Services Labs
- Exercise A: Configuring and performing an MSDP encrypted backup
- Exercise B: Configuring and performing a client encrypted backup
- Exercise C: Configuring the NetBackup Key Management Service Exercise D: Configuring NetBackup to work with KMS
- Exercise E: Backing up and recovering KMS database files Improving NetBackup Performance
- NetBackup performance overview
 Addressing performance issues
 Using Network Resiliency Labs
- Exercise A: Optimizing backups using synthetic backups Exercise B: Configuring for and using FlashBackup
- Optimizing NetBackup Deduplication Improving deduplication backup performance
- Optimizing deduplication restores and rehydration Labs
 Exercise A: Configuring client direct restores
- Exercise B: Performing a client direct restore Exercise C: Seeding MSDP FingerPrint cache
- Exercise D: Rehydration performance NetBackup Parallel Streaming Framework Parallel Streaming Framework: Overview
- Protecting Hadoop data using NetBackup Installing the Hadoop plug-in Configuring NetBackup for Hadoop
- Configuring backup policies for Hadoop Backing up a Hadoop cluster Recovering data to a Hadoop cluster Labs
- Exercise A: Understanding Hadoop configuration Exercise B: Configuring Credentials for Hadoop in NetBackup
- Exercise C: Configuring the NetBackup policy Exercise D: Performing Hadoop backup Exercise E: Restoring Hadoop data
- Protecting Microsoft SQL Databases Introduction to Microsoft SQL Server NetBackup for SQL Server: Overview
- Managing SQL Server objects
 Protecting Microsoft SQL Server assets
 Using SQL Server Intelligent Policies
- Restoring Microsoft SQL Server assets
 Instant Access for Microsoft SQL Server Labs
- Exercise A: Introduction to the SQL Server environment Exercise B: Registering SQL instance with NetBackup
- Exercise C: Configuring and performing a SQL server backup Exercise D: Deleting a SQL database
- Exercise E: Restoring a SQL database Exercise F: Creating a NetBackup SQL Intelligent Policy (Optional)
- Exercise G: Performing a manual SQL Server backup using an Intelligent Policy (Optional)
- Exercise H: Restoring a SQL database using NetBackup MS SQL Client (Optional) Protecting Oracle Databases
- Introduction to Oracle databases
 NetBackup for Oracle: Overview
 Managing Oracle
 Configuring Oracle database backups
- Monitoring and maintaining Oracle database backups
 Oracle database disaster recovery considerations
- Real Application Clusters Labs Exercise A: Initial configuration of Oracle
- Exercise B: Registering the Oracle instance with NetBackup Exercise C: Creating an Oracle Intelligent Policy
- Exercise D: Performing a backup using an Oracle Intelligent Policy Exercise E: Simulating a failure of an Oracle database
- Exercise F: Restoring an Oracle database Protecting Microsoft Exchange
 Introduction to Microsoft Exchange Server
- $\bullet \ \mbox{Configuring NetBackup for Exchange} \bullet \ \mbox{Exchange and high availability environments}$
- Monitoring and maintaining Exchange database backups
 Exchange disaster recovery considerations Labs
- Exercise A: Configuring a Microsoft Exchange backup policy
- Exercise B: Performing non-NetBackup pre-requisite tasks for Exchange GRT
- Exercise C: Performing NetBackup tasks to enable Exchange Granular Recovery (GRT)
- Exercise D: Performing a Microsoft Exchange database backup
 Exercise E: Performing a Roll-Forward recovery
- Exercise F: Performing Point-in-Time recovery
 Exercise G: Performing an Exchange GRT database backup
- Exercise H: Recovering a deleted e-mail message
- Exercise I: Performing full and differential backups of an Exchange database (Optional)
- Exercise J: Restoring the Exchange database from full and differential backup images (Optional)
- Protecting Red Hat Virtualization Workloads Introduction to Red Hat Virtualization (RHV)
- NetBackup for RHV: Configuration and deployment Protecting Red Hat Virtualization virtual machines
- Recovering Red Hat Virtualization virtual machines Labs Exercise A: Configuring NetBackup communication with RHV
- Exercise B: Protecting RHV virtual machines
 Exercise C: Recovering RHV virtual machines
- Protecting Nutanix Acropolis Hypervisor Workloads NetBackup for Nutanix Acropolis Hypervisor: Overview
- Configuring NetBackup communication with AHV Configuring secure communication Configuring backup policies for AHV
- Backing up Nutanix AHV virtual machines Recovering Nutanix AHV virtual machines Labs
- Exercise A: Configuring NetBackup communication with AHV
- Exercise B: Configuring, performing, and monitoring backups of Nutanix AHV virtual machines
- Exercise C: Recovering Nutanix AHV virtual machines Universal Shares Introduction to Universal Shares
- BYO Universal Shares Configuring Universal Shares Backing up to a Universal Share Protecting data in a Universal Share
- Labs Exercise A: Verifying BYO media server configuration Exercise B: Creating and mounting a Universal Share
- Exercise B: Performing a backup to a Universal Share Exercise C: Protecting data in a Universal Share
- Exercise D: Restoring data to a Universal Share NetBackup Cloud Solutions Using the cloud with NetBackup
- Configure NetBackup cloud storage Managing NetBackup cloud storage and cloud backups Veritas CloudPoint: Overview
- NetBackup integration with CloudPoint Protecting cloud workloads Recovering cloud workloads Labs
- Exercise A: Performing preliminary tasks Exercise B: Configuring cloud storage in NetBackup
- Exercise C: Configuring and performing backups to the cloud Exercise D: Restoring client data from cloud-based storage
- Exercise E: Protecting cloud assets using NetBackup (Optional) Exercise F: Restoring cloud assets using NetBackup (Optional) Veritas Smart Meter Introduction to Veritas Smart Meter Privacy and Data security
- Data types collected and data collection events Enabling Veritas Smart Meter NetBackup APIs Introduction to NetBackup API
- Using NetBackup APIs for automation Creating and using API keys Labs Exercise A: Using NetBackup APIs with Swagger
- Exercise B: Using Swagger to configure MSDP Exercise C: Configuring VMware protection using NetBackup APIs
- Exercise D: Automating the use of NetBackup Universal Shares Exercise E: Automating SQL database backup and recovery
- NetBackup Resilience Introduction to Veritas Resiliency Platform Integrating NetBackup and Veritas Resiliency Platform
- Configuring Resiliency Group with NetBackup virtual machines
 Restoring NetBackup virtual machines Labs
- Exercise A: Understanding the lab environment.

- Exercise B: Preparing master server(Windows) for VMware backup with Auto Image Replication.
- Exercise C: Preparing master server(Linux) for VMware backup with Auto Image Replication
- Exercise D: Running and monitoring backup, replication, and import jobs.
- Exercise E: Adding master(Windows) to the New York data center in VRP.
- Exercise F: Adding master(Linux) to the London data center in VRP.
- Exercise G: Performing a rehearsal with VMware and NetBackup Auto Image Replication.

• Exercise H: Performing a rehearsal cleanup with VMware and NetBackup Auto Image Replication.

Appendix A: NetBackup Replication Director • Introduction to NetBackup Replication Director

- NetBackup configuration for Replication Director
 Restoring from a snapshot
 Using NetApp disk arrays with Replication director
- Using Oracle with Replication Director Using Virtual Machines with Replication Director Labs
- Exercise A: Creating a NetBackup storage server for snapshot replication
- Exercise B: Creating disk pools and storage units for snapshots and replication
- Exercise C: Creating a storage lifecycle policy for snapshots and snapshot replication
- Exercise D: Configuring backup policies for snapshots and snapshot replication
- Exercise E: Restoring files and folders from an array-based snapshot Appendix B: Long Term Retention using Veritas Access
- NetBackup Integration with Access Appliance 3340 (7.4.2) Configuring Access as a cloud storage server
- Configuring backup over S3 Veritas Data Deduplication Labs
- Exercise A: Configuring Veritas Data Deduplication with Veritas Access
- Exercise B: Configuring Veritas Data Deduplication storage in NetBackup Exercise C: Creating a S3 bucket on Veritas Access
- Exercise D: Configuring Veritas Access cloud storage in NetBackup
- Exercise E: Configuring and performing backups using NetBackup policies Appendix C: Protecting SAP HANA databases
- Introduction to NetBackup SAP HANA Configuring NetBackup for SAP Performing backups and restores of SAP HANA

Appendix D: NetBackup Bare Metal Restore • Introduction to Bare Metal Restore • Configuring Bare Metal Restore

- Protecting clients Setting up restore environments Creating virtual machine from client backup Labs
- Exercise A: Configuring BMR Master Server Exercise B: Configuring BMR Boot server
- Exercise C: Configuring backup policy for BMR Exercise D: Configuring SRT Exercise E: Performing BMR Restore
- Exercise F: Creating a Virtual Machine from client Image Backup Appendix E: Protecting NAS Data
- Introduction to NetBackup for NDMP Preparing for NDMP backups Configuring local NDMP backup
- Configuring remote NDMP backups Accelerator for NDMP filers Protecting a NetApp cDOT NDMP filer
- Understanding NDMP three-way backups Data Protection Configuring NDMP three-way backups Dynamic NAS (DNAS)
- Appendix F: Protecting Microsoft SharePoint Introduction to Microsoft SharePoint Server
- Configuring NetBackup for SharePoint
 SharePoint disaster recovery considerations Labs
- Exercise A: Configuring a Microsoft SharePoint policy in NetBackup
- Exercise B: Performing non-NetBackup tasks to enable SharePoint Granular Recovery
- Exercise C: Performing NetBackup tasks to enable SharePoint Granular Recovery
- Exercise D: Performing a manual backup using a SharePoint policy Exercise E: Deleting a document from a SharePoint site
- Exercise F: Performing a SharePoint document restore Appendix G: Legacy Policies and Generic Application Backups
- Configuring NetBackup with legacy Oracle policies
 Monitoring and maintaining Oracle database backups from legacy policies
- Using the NetBackup Microsoft SQL Client console Using SQL server batch files in NetBackup policies
- Customizing generic application backups *Labs* Exercise A: Viewing Initial configuration of Oracle
- Exercise B: Registering the Oracle instance with NetBackup Exercise C: Creating an Oracle Legacy Policy
- Exercise D: Performing a backup using an Oracle Legacy Policy Exercise E: Simulating a failure of an Oracle database
- Exercise F: Restoring an Oracle database Appendix H: Processing MSDP MSDP Processing: In-depth

Session Dates

På begäran, kontakta oss

Ytterligare information

Denna utbildning finns också som utbildning på plats. Kontakta oss för mer information.