

## Veritas NetBackup Appliances 4.0: Configuration and Management

### Course Summary

#### Description

The Veritas NetBackup Appliances 4.0: Configuration and Management course is designed for the IT Professional who is new to appliances and is responsible for configuring the 5340 and 5240 appliances, performing appliance maintenance tasks, operating and managing the appliance and troubleshooting the appliance.

#### Objectives

By the end of this course, students will be able to:

- Describe key components of the NetBackup Appliances - hardware and software.
- Configure the NetBackup Appliance.
- Perform local configuration tasks using the Appliance Web Console and CLISH.
- Perform remote configuration tasks using VRM.
- Integrate appliances into the NetBackup environment, run backups and restores.
- Configure appliance shares and work with Oracle Copilot and Instant Access for VMware.
- Resolve appliance issues with troubleshooting tools.
- Monitor appliance health.
- Update appliance software.
- Maintain the appliance.
- Reconfigure the appliance.
- Deploy Virtual Appliances.
- Cluster NetBackup 53xx appliances.
- Configure and work with the Flex appliance.
- Describe the Flex Scale appliance

#### Topics

- NetBackup Appliances: Introduction and Overview
- Configuring the Appliance
- Performing Appliance Operations
- Appliance Troubleshooting and Tools
- Monitoring Appliance Health
- Updating Appliance Software
- Performing Appliance Maintenance Tasks
- Reconfiguring an Appliance
- Working with Copilot
- Clustering NetBackup 53xx Appliances
- Flex Appliance Introduction
- Flex Appliance Configuration
- Working with the Flex Appliance
- Flex Scale Introduction
- NetBackup 5250 Appliance
- NetBackup 5340 Appliance

#### Audience

This course is meant for customers and partners new to appliances and front-line technical support personnel who are responsible for configuring the 5250 and 5340 appliances, performing appliance maintenance tasks, operating and managing the appliance, and troubleshooting the appliance.

#### Prerequisites

Before taking this course, you must have working knowledge of Veritas NetBackup. It would be beneficial to have some knowledge about Veritas NetBackup Appliances, networking, and storage concepts.

#### Duration

Five days

## Veritas NetBackup Appliances 4.0: Configuration and Management

### Course Outline

#### *I. NetBackup Appliances: Introduction and Overview*

- A. NetBackup Appliance family overview
- B. NetBackup Appliance software overview
- C. NetBackup Appliance hardware overview

#### *II. Configuring the Appliance*

- A. Pre-Configuration Checklist and other considerations
- B. Accessing the Appliance Web Console
- C. Initial configuration tasks using the Appliance
- D. Web Console and the NetBackup Appliance Shell Menu
- E. Remote configuration using Veritas Remote
- F. Management (VRM)
- G. Appliance Management Server
- H. Appliance configuration validation

#### Labs

- Exercise A: NetBackup 4.0 Lab Environment
- Exercise B: Configuring a Master Server Appliance
- Exercise C: Adding a 5330 Media Server Appliance to a Master
- Exercise D: Configuring a 5330 Media Server Appliance
- Exercise E: Verifying the Configuration
- Exercise F: Launching the NetBackup Administration Console
- Exercise G: Viewing Software Emails

#### *III. Performing Appliance Operations*

- A. Integrating Appliances in a NetBackup Environment
- B. Performing Backups and Restores with Appliances
- C. Running Backup Reports
- D. Configuring appliance shares
- E. Working with Oracle Copilot
- F. Instant Access for VMware

#### Labs

- Exercise A: Appliance Shell Menu Storage Information
- Exercise B: Resizing Storage
- Exercise C: Configuring Policies to use Advanced Disk Storage
- Exercise D: Performing Manual Backups to Storage
- Exercise E: Viewing the Disk Pool Information
- Exercise F: Viewing Storage Emails
- Exercise G: Running Deduplication Reports in OpsCenter (Optional)

#### *IV. Appliance Troubleshooting and Tools*

- A. Appliance Online Resources
- B. Appliance Physical Inspection
- C. Resolving Common Hardware Faults

#### Labs

- Exercise A: Appliance Shell Support Menu
- Troubleshooting Commands
- Exercise B: Viewing Log Files Using the Support > Logs Command
- Veritas NetBackup 5240 Appliance: Hardware Installation and IPMI Configuration Walkthrough

#### *V. Monitoring Appliance Health*

- A. Monitoring with OpsCenter
- B. Monitoring with the Appliance Web Console and the NetBackup Appliance Shell Menu (CLISH)
- C. Monitoring with Veritas Remote Management

#### Labs

- Exercise A: Monitoring an appliance with OpsCenter
- Exercise B: Monitoring an appliance with the Appliance Shell Menu
- Demo 5b: Veritas Remote Management (IPMI)

## Veritas NetBackup Appliances 4.0: Configuration and Management

### Course Outline

#### VI. Updating Appliance Software

- A. NetBackup Appliance software version 4.0 Upgrade:
- B. Overview
- C. Upgrading the appliance
- D. Appliance Management Console overview
- E. Configuring an appliance as an Appliance Management Server
- F. Server
- G. Managing appliances with the Appliance Management Console
- H. Console
- I. NetBackup client upgrades with VxUpdate.

#### Labs

- Exercise A - Configuring an appliance as an Appliance Management Server (AMS)
- Exercise B - Configuring an appliance as an Appliance Management Agent (AMA)
- Exercise C - Managing appliances from the Appliance Management Console (AMC)
- Demo 6a: Upgrading to 4.0

#### VII. Performing Appliance Maintenance Tasks

- A. Managing AutoSupport alerts
- B. Setting the Login Banner
- C. Configuring a NetBackup CLI User
- D. Configuring LDAP and AD Authentication
- E. Adding a Storage Shelf
- F. Maintaining appliance security
- G. Configuring SAN Client and Fibre channel replication

#### Labs

- Exercise A: NetBackupCLI user Administrative Users

- Exercise B: An Introduction to the NetBackup Command Line Shell
- Exercise C: Configuring LDAP and AD Authentication
- Exercise D: Viewing SDCS Audit Logs
- Exercise E: Creating a Login Banner
- Demo 7a: (Optional) – Add storage to 5240 and 5340
- Demo 7b: (Optional) – 5240 Storage expansion kit

#### VIII. Reconfiguring an Appliance

- A. Appliance Resets
- B. Appliance Reimaging
- C. Migrating to a New Appliance
- D. Decommissioning an Appliance

#### Labs

- Exercise A: Performing a Manual Backup
- Exercise B: Configuring Data Migration
- Exercise C: Viewing Migration Tasks Status
- Exercise D: Viewing Data Migration Results
- Demo 8a: Performing a Factory Reset

#### IX. Working with Copilot

- A. Challenges of Database Protection
- B. NetBackup Copilot for Oracle: Overview
- C. Configuration Steps
- D. Recovery Scenarios and Procedures

#### Labs

- Exercise A: Creating and mounting an Appliance Share
- Exercise B: Configuring Storage Lifecycle Policies
- Exercise C: Configuring an Oracle Intelligent Policy

## Veritas NetBackup Appliances 4.0: Configuration and Management

### Course Outline

#### X. Clustering NetBackup 53xx Appliances

- A. High Availability: Overview
- B. Installation and Configuration
- C. AutoSupport for High Availability
- D. Universal Share for High Availability

##### Labs

- Exercise A: Configuring a NetBackup 53xx high availability setup
- Exercise B: Adding the partner node to the NetBackup 53xx high availability configuration
- Exercise C: Performing failover scenario during backup

#### XI. Flex Appliance Introduction

- A. Veritas Flex Appliance: Introduction
- B. Flex Appliance 5340: Hardware
- C. Flex Appliance 5340: Software
- D. Flex Appliance 5150: Overview
- E. Flex Appliance 5340: Container implementation
- F. Flex Appliance 5340 Management and Monitoring

#### XII. Flex Appliance Configuration

- A. Setting up the Veritas Flex Appliance
- B. Accessing and using the Flex Appliance Shell
- C. Accessing and using the Flex Appliance Console
- D. Configuring the Network

##### Labs

- Exercise A: Performing an initial configuration of Flex Appliance.
- Exercise B: Navigating the Flex Appliance Shell
- Exercise C: Accessing and navigating the Flex Appliance Console.
- Exercise D: Configuring network interfaces
- Exercise E: Adding and removing a node from the Hosts File

#### XIII. Working with the Flex Appliance

- A. Working with Tenants
- B. Managing Users

- C. Using Active Directory User Credentials with the Flex Appliance
- D. Managing Applications and Upgrade Packages in the Repository
- E. Creating Application Instances
- F. Managing Application Instances
- G. Veritas Flex Appliance: Multiple Network Support
- H. Instance Upgrade
- I. AutoSupport and Call Home
- J. Monitoring the Hardware from the Flex Appliance Shell
- K. Scanning and Adding Storage

##### Labs

- Exercise A: Working with tenants
- Exercise B: Managing Flex Appliance console users
- Exercise C: Adding application packages in the repository
- Exercise D: Creating a NetBackup master and a media server instance
- Exercise E: Upgrading application instances
- Exercise F: Managing application instances

#### XIV. Flex Scale Introduction

- A. NetBackup Flex Scale: Overview
- B. Flex Scale Hardware Requirements and Node Specifications
- C. Installing and Configuring NetBackup Flex Scale
- D. Resiliency and Disaster Recovery

#### XV. NetBackup 5250 Appliance

- A. NetBackup 5250 Appliance: Overview
- B. NetBackup 5250 Appliance Physical Status Indicators
- C. NetBackup 5250 Maintenance Tasks

#### XVI. NetBackup 5340 Appliance

- A. NetBackup 5340 Appliance: Overview
- B. NetBackup 5340 Appliance Physical Stat