



COURSE 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 5250 and 5340 appliances, performing appliance maintenance tasks, operating and managing the appliance, and troubleshooting the appliance.

This course covers how to configure the appliances and add storage to the appliances. You learn how the appliances easily integrate into the NetBackup environment, how to run backups and restores, and the basics of resolving appliance issues and maintaining the appliances. You also learn about reconfiguring the appliances, deploying virtual appliances, and clustering NetBackup 53xx appliances. In addition, you learn how to configure and work with Flex appliances and Flex Scale appliances.

Delivery Method(s)

This course is available in the following delivery method(s):

- [Instructor-led training \(ILT\)](#)
- [Virtual instructor-led training \(VILT\)](#)
- [Learning Lab](#)

Duration

- Instructor-led training - ILT: 5 days, including 6 months of lab access
- Virtual instructor-led training - VILT: 5 days, including 6 months of lab access
- Learning Lab – Self-paced lesson guide plus 6 months of lab access

Course Objectives

By the completion of this course, you 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.

Who Should Attend

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

You must have working knowledge of Veritas NetBackup. It would be beneficial to have some knowledge about Veritas NetBackup Appliances, networking, and storage concepts.

Hands-On

This course includes practical hands-on lab exercises that enable you to test your new skills and begin to transfer them into your working environment. It also includes demonstrations and videos as part of the lab work.

COURSE OUTLINE

NetBackup Appliances: Introduction

- NetBackup Appliance Family Overview
- NetBackup Appliance Software Overview
- NetBackup Appliance Hardware Overview

Labs

- Demo: NetBackup 5250 Appliance 3D Tour
- Demo: NetBackup 5340 Appliance 3D Tour

Configuring the Appliance

- Pre-Configuration Checklist and other considerations
- Accessing the Appliance Web Console
- Initial configuration tasks using the Appliance Web Console and the NetBackup Appliance Shell Menu
- Remote configuration using Veritas Remote Management (VRM)
- Appliance Management Server

Labs

- Exercise A: Configuring a master server Appliance
- Exercise B: Adding a 5340 media server appliance to a master
- Exercise C: Configuring a 5340 media server Appliance
- Exercise D: Verifying the configuration
- Exercise E: Accessing the NetBackup Administration Console
- Exercise F: Viewing software emails

Performing Appliance Operations

- Integrating Appliances in a NetBackup Environment
- Performing Backups and Restores with Appliances
- Configuring Appliance Shares
- Instant Access for VMware

Labs

- Exercise A: Using the Appliance Shell Menu to view storage information
- Exercise B: Creating and Resizing storage partitions
- Exercise C: Configuring backup policies
- Exercise D: Performing Manual backups

- Exercise E: Creating an Instant Access Virtual Machine

Appliance Troubleshooting and Tools

- Appliance Online Resources
- Appliance Physical Inspection
- Resolving Common Hardware Faults

Labs

- Exercise A: Appliance Shell Support Menu Troubleshooting Commands
- Exercise B: Viewing Log Files Using the Support > Logs Command
- Exercise C: Log Transfer Using the Support > LogBrowser Command
- Demo: NetBackup 5230 Appliance Rack & Stack with IPMI Configuration

Monitoring Appliance Health

- Monitoring with OpsCenter
- Monitoring with Appliance Web Console and NetBackup Appliance Shell Menu
- Monitoring with Veritas Remote Management

Labs

- Exercise A: Monitoring an appliance master server with OpsCenter
- Exercise B: Monitoring an appliance master server with Appliance Web Console
- Exercise C: Monitoring an appliance master server with Appliance Shell menu
- Demo 5b: Veritas Remote Management (IPMI)

Updating Appliance Software

- NetBackup Appliance Software Version 4.0 Upgrade: Overview
- Upgrading the Appliance
- Appliance Management Console: Overview
- Configuring an Appliance as an Appliance Management Server
- Managing Appliances with the Appliance Management Console
- 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)

Performing Appliance Maintenance Tasks

- Managing AutoSupport Alerts
- Setting the Login Banner
- Configuring a NetBackup CLI User
- Configuring LDAP and AD Authentication
- Adding a Storage Shelf
- Maintaining Appliance Security
- Configuring SAN Client and Fibre Channel Replication

Labs

- Exercise A: Creating, viewing, and removing Login banners
- Exercise B: Configuring user authentication
- Exercise C: Creating and using NetBackupCLI users
- Exercise D: Maintaining Appliance Security

Reconfiguring the Appliance

- Appliance Resets
- Appliance Reimaging
- Migrating to a New Appliance
- Decommissioning an Appliance

Labs

- Exercise A: Performing a NetBackup Manual Backup
- Exercise B: Configuring Data Migration
- Exercise C: Viewing the Migration Task Status
- Exercise D: Viewing Data Migration Results
- Demo 8a: Performing a Factory Reset
- Demo 8b: Appliance Reimaging using IPMI

Working with Copilot

- Challenges of Database Protection
- NetBackup Copilot for Oracle: Overview
- Configuration Steps
- 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

Working with Virtual Appliances

- Virtual Appliances: Overview
- Differences Between Virtual and Physical Appliances
- Pre-configuration Tasks
- Deploying a NetBackup Virtual Appliance
- Configuring a NetBackup Virtual Appliance
- Additional Configuration Tasks

Labs

- Exercise A: Deploying a combined master and media server appliance
- Exercise B: Replicating images to a virtual appliance

Clustering NetBackup 53xx Appliances

- High Availability: Overview
- Installation and Configuration
- AutoSupport for High Availability
- 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

Flex Appliance Introduction

- Veritas Flex Appliance: Introduction
- Flex Appliance 5340: Hardware
- Flex Appliance 5340: Software
- Flex Appliance 5150: Overview
- Flex Appliance 5340: Container implementation
- Flex Appliance 5340 Management and Monitoring

Flex Appliance Configuration

- Setting up the Veritas Flex Appliance
- Accessing and using the Flex Appliance Shell
- Accessing and using the Flex Appliance Console
- 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

Working with the Flex Appliance

- Working with Tenants
- Managing Users
- Using Active Directory User Credentials with the Flex Appliance
- Managing Applications and Upgrade Packages in the Repository
- Creating Application Instances
- Managing Application Instances
- Veritas Flex Appliance: Multiple Network Support
- Instance Upgrade
- AutoSupport and Call Home
- Monitoring the Hardware from the Flex Appliance Shell
- 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

Flex Scale Introduction

- NetBackup Flex Scale: Overview
- Flex Scale Hardware Requirements and Node Specifications
- Installing and Configuring NetBackup Flex Scale
- Resiliency and Disaster Recovery

NetBackup 5250 Appliance

- NetBackup 5250 Appliance: Overview
- NetBackup 5250 Appliance Physical Status Indicators
- NetBackup 5250 Maintenance Tasks

NetBackup 5340 Appliance

- NetBackup 5340 Appliance: Overview
- NetBackup 5340 Appliance Physical Status Indicators
- NetBackup 5340 Maintenance Tasks