

## Veritas NetBackup Flex Scale 3.2: Administration

### COURSE DESCRIPTION

The *Veritas NetBackup Flex Scale 3.2: Administration* course is designed for IT professionals responsible for deploying, configuring, operating, managing, and maintaining Veritas NetBackup Flex Scale appliances.

This course covers setting up, monitoring, and managing NetBackup Flex Scale infrastructure, and configuring networks, resiliency, and security.

The course also discusses how to perform site-based disaster recovery, configure EMS, optimized deduplication, and AIR. Upgrade, patch management, and troubleshooting NetBackup Flex Scale issues are also discussed.

### Delivery Methods

This course is available in the following delivery methods:

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

### Duration

- Instructor-led training - ILT: 4 days, including 6 months of lab access
- Virtual instructor-led training - VILT: 4 days, including 6 months of lab access
- Learning Lab – Self-paced lesson guide plus 6 months of lab access

### Course Objectives

After completing this course, you will be able to:

- Describe NetBackup Flex Scale, its workloads, and architecture.
- Describe NetBackup Flex Scale configuration methods and deployment.
- Explain NetBackup Flex Scale APIs.
- Summarize user roles in NetBackup Flex Scale.
- Explain directory services and certificate management.
- Manage and monitor Flex Scale storage.
- Configure the AD/LDAP server for NetBackup services, Universal Shares, and Instant Access.
- Create a Protection Point for a Universal Share.
- Configure and manage nodes.
- Explain network management in NetBackup Flex Scale.
- Configure Call Home settings and view Call Home information.
- Manage alerts and event notifications.
- Monitor firmware, driver, and utility version compatibility with the appliance.

- Explain Erasure Coding in NetBackup Flex Scale.
- Explain NetBackup Flex Scale container failover and mobility.
- Describe NetBackup catalog protection and primary service catalog protection using checkpoints.
- Explain Site-based Disaster Recovery.
- Describe the implementation of STIG and FIPS for NetBackup Flex Scale.
- Describe NetBackup Flex Scale support for Immutability.
- Configure EMS, Optimized Deduplication, and AIR.
- Configure NetBackup optimized duplication and SLP for optimized duplication.
- Describe the NetBackup Flex Scale upgrade process.
- Perform a patch upgrade using the Flex Scale Web UI and REST APIs.
- Configure and manage log forwarding.
- Troubleshoot various NetBackup Flex Scale issues.

### Who Should Attend

This course is designed for technical professionals responsible for the design, deployment, configuration, operation, and management of Veritas NetBackup Flex Scale appliances.

### Prerequisites

Students must have working knowledge of Veritas NetBackup and Veritas InfoScale Availability. Knowledge of clustering, storage management, and networking is also required.

### Hands-On

This course includes practical hands-on exercises that enable you to test your new skills and begin to transfer them into your working environment.

### COURSE OUTLINE

#### Introducing Veritas NetBackup Flex Scale

- Veritas NetBackup Flex Scale Appliance: Introduction
- NetBackup Flex Scale Architecture
- Understanding Flex Scale Hardware and Software

#### Deploying and Configuring NetBackup Flex Scale

- Deploying NetBackup Flex Scale
- Configuring NetBackup Flex Scale

#### Working with NetBackup Flex Scale Interfaces

- Accessing NetBackup Flex Scale and NetBackup
- Accessing the NetBackup Web UI on the Appliance
- Navigating the NetBackup Flex Scale Web UI
- Navigating the NetBackup Flex Scale Infrastructure Management UI
- Working with NetBackup Flex Scale APIs

**Labs:**

- Exercise A: Accessing and Navigating the NetBackup Flex Scale Web UI
- Exercise B: Accessing and Navigating the NetBackup Flex Scale Appliance Shell
- Exercise C: Accessing and Navigating NetBackup Flex Scale APIs Using the Swagger Interface

**Setting Up and Managing NetBackup Flex Scale Infrastructure**

- Creating and Managing Users
- Setting Up Services, Certificates, and Configuring AD/LDAP Settings
- Managing and Monitoring Flex Scale Storage
- Working with Universal Shares
- Managing Nodes and Disks
- Managing Licenses

**Labs:**

- Exercise A: Creating and Managing Users
- Exercise B: Setting Up Services, Certificates, and AD/LDAP Settings
- Exercise C: Managing Storage
- Exercise D: Creating and Protecting Universal Shares
- Exercise E: Managing Nodes and Disks
- Exercise F: Managing Licenses

**Configuring NetBackup Flex Scale Networks**

- Managing Flex Scale Appliance Networks
- Bonding Ethernet Interfaces
- Configuring the Data Network

**Labs:**

- Exercise A: Managing Flex Scale Appliance Networks
- Exercise B: Creating and Managing Bonding of Ethernet Interfaces
- Exercise C: Configuring the Data Network

**Monitoring NetBackup Flex Scale**

- Working with AutoSupport and Call Home
- Monitoring Flex Scale Infrastructure

**Labs:**

- Exercise A: Configuring and Managing Call Home Settings
- Exercise B: Monitoring Flex Scale Infrastructure

**Configuring NetBackup Flex Scale Resiliency**

- Resiliency in NetBackup Flex Scale
- Handling Split-brain Scenarios
- Appliance High Availability and Disaster Recovery
- NetBackup High Availability and Catalog Protection

**Labs:**

- Exercise A: Monitoring Flex Scale Services and Failover
- Exercise B: Protecting the NetBackup Catalog

**Performing Site-based Disaster Recovery**

- Working with Site-based Disaster Recovery

**Working with NetBackup Flex Scale Security**

- Understanding STIG Compliance in NetBackup Flex Scale
- Implementing FIPS in NetBackup Flex Scale
- Configuring Multifactor Authentication on NetBackup Flex Scale
- Configuring Smart Card Authentication on NetBackup Flex Scale
- Configuring Single Sign-on Authentication on NetBackup Flex Scale
- Working with Additional NetBackup Flex Scale Security Features
- Configuring Immutability in NetBackup Flex Scale
- Deploying External Certificates in NetBackup Flex Scale

**Labs:**

- Exercise A: Enabling STIG and Changing the Password Policy
- Exercise B: Creating Immutable Storage
- Exercise C: Managing the Login Banner
- Exercise D: Configuring Flex Scale for Single Sign-On
- Exercise E: Managing Multifactor Authentication for Users

**Configuring EMS, Optimized Deduplication, and AIR**

- Configuring the EMS Server
- Working with Immutable Scale-Out Dedupe Storage
- Configuring Auto Image Replication

**Labs:**

- Exercise A: Configuring an External Media Server
- Exercise B: Configuring and Managing Optimized Deduplication
- Exercise C: Configuring and Managing AIR

**Upgrading and Patch Management**

- NetBackup Flex Scale Upgrades and EEB
- Running Pre-upgrade Checks
- Performing a Patch Upgrade
- Upgrading NetBackup Flex Scale
- Performing a Firmware Upgrade

**Labs:**

- Exercise A: Performing Pre-upgrade Checks
- Exercise B: Performing a Patch Upgrade

**Troubleshooting NetBackup Flex Scale**

- Using Services Management
- Working with Audit Logs
- Collecting Logs for Cluster Nodes
- Forwarding Logs to an External Server
- Troubleshooting NetBackup Flex Scale Issues



**Labs:**

- Exercise A: Performing a Full Discovery and Auto Fix
- Exercise B: Generating a Log Package
- Exercise C: Downloading and Uploading Logs

**About Veritas**

Veritas Technologies is a global leader in data protection and availability. Over 80,000 customers— including 87 percent of the Fortune Global 500—rely on us to abstract IT complexity and simplify data management. The Veritas Enterprise Data Services Platform automates the protection and orchestrates the recovery of data everywhere it lives, ensures 24/7 availability of business-critical applications, and provides enterprises with the insights they need to comply with evolving data regulations. With a reputation for reliability at scale and a deployment model to fit any need, Veritas Enterprise Data Services Platform supports more than 800 different data sources, over 100 different operating systems, more than 1,400 storage targets, and more than 60 different cloud platforms. Learn more at [www.veritas.com](http://www.veritas.com). Follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).