

Veritas Backup Exec 20.1: Administration

Course Summary

Description

The Veritas Backup Exec 20.1: Administration course is designed for the data protection professional tasked with architecting, implementing, backing up, and restoring critical data. This class covers how to back up and restore data, configure storage devices, manage media, manage and maintain the Backup Exec environment.

Students also learn how to configure and work with various Backup Exec Agents, which protect applications like Microsoft Exchange, Microsoft SharePoint, Microsoft SQL, Active Directory, and virtual environments.

Objectives

After taking this course, students will be able to:

- Describe the functionality and architecture of Backup Exec.
- Install and upgrade to Backup Exec 20.1.
- Configure storage devices.
- Manage devices and media used by Backup Exec.
- Run backup and restore jobs.
- Set backup and recovery settings and methods.
- Perform Online Disaster Recovery.
- Work with the Database Encryption Key.
- Install the SDR disk creation wizard, create an SDR disk imagen and recover a server with SDR.
- Backup a physical machine and convert to a virtual machine either simultaneously or on a schedule.
- Install, configure, and manage the Backup Exec Central Admin Server feature.
- Protect remote servers using the appropriate Remote Agents.
- Use Backup Exec to protect databases and applications, including;
 - VMware vSphere
 - Microsoft Hyper-V
 - Microsoft SQL Server
 - Microsoft Exchange
 - Microsoft SharePoint
 - Agent for Active Directory
- List the supported virtual conversion configurations.
- Configure Backup Exec Deduplication Storage.
- Backup and restore deduplicated data.

Topics

- Course Introduction
- Backup Exec Fundamentals
- Licensing Backup Exec
- Installing Backup Exec
- Working with the Administration Console
- Disk Storage Devices
- Cloud-based Storage Devices
- Network Storage Devices
- Disk, Network, and Cloud Data Management
- Tape Devices and Tape Management
- Backing up Data
- Managing Servers and Jobs
- Restoring Data
- Working with the Database Encryption Key
- Simplified Disaster Recovery
- Upgrading Backup Exec
- Deduplication Feature
- Introduction to Remote Agent, Applications and Databases
- Protecting Microsoft Exchange Server
- Protecting Microsoft SQL Server
- Protecting Microsoft SharePoint Server
- Protecting Microsoft Active Directory
- Protecting Virtual Environments
- Performing Virtual Machine Conversions

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Course Summary (cont'd)

Audience

This course is designed for system administrators, system engineers, technical support personnel, systems professionals, consultants, backup administrators, backup operators, and others who are responsible for installing, configuring, managing, and monitoring Backup Exec 20.1.

Prerequisites

Before taking this course, you must have basic working knowledge of administrating and configuring Windows Server 2008, Windows Server 2012 and later platforms. You must also have experience configuring server software. Basic working knowledge of the following applications is beneficial, but not required:

- Microsoft SQL Server
- Microsoft Exchange Server
- Microsoft SharePoint Portal Server
- Microsoft Hyper-V
- VMware virtual infrastructure.

Duration

Five days

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Course Outline

Veritas Backup Exec 20.1: Install and Configure

I. Course Introduction

- A. About this course
- B. Veritas education and support resources

II. Backup Exec Fundamentals

- A. Data backup basics
- B. Backup Exec solution offerings
- C. Backup Exec architecture
- D. Backup Exec 20.1: EOL Items

III. Licensing Backup Exec

- A. Subscription, Perpetual and À la carte Licensing
- B. Trialware and upgrades
- C. Capacity and subscription license enforcement
- D. Updated licensing information
- E. Capacity widget and capacity metering
- F. Maintenance and Extended Support Licensing
- G.

IV. Installing Backup Exec

- A. Backup Exec: New installation
- B. Typical installation of Backup Exec
- C. Custom installation of Backup Exec
- D. Installation details
- E. Applying Backup Exec updates

V. Working with the Administration Console

- A. Launching Backup Exec
- B. Introduction to Backup and Restore

VI. Disk Storage Devices

- A. Backup Exec storage devices
- B. Configuring disk storage devices
- C. Configuring disk cartridge devices
- D. Configuring deduplication storage
- E. Configuring Backup Exec storage pools
- F. Managing disk storage devices

VII. Cloud-based Storage Devices

- A. Cloud storage
- B. Amazon S3 cloud-based storage
- C. Google cloud-based storage
- D. Microsoft Azure cloud-based storage
- E. Backup Exec requirements for creating cloud storage

- F. devices
- G. Configuring a cloud-storage device in Backup Exec
- H. Managing cloud-storage in Backup Exec

VIII. Network Storage Devices

- A. Configuring network storage

IX. Disk, Network, and Cloud Data Management

- A. Managing disk and network data
- B. Data Lifecycle Management fundamentals
- C. DLM rules overview
- D. Dependent backup sets
- E. DLM rule
- F. Manual expiration and retention
- G. Read only setting
- H. Media Catalogs

X. Tape Devices and Tape Management

- A. Configuring tape storage
- B. Managing tape devices
- C. Tape storage operations
- D. Managing tapes with media sets
- E. Tape Drive Auto Eject enhancements

XI. Backing up Data

- A. Adding a server
- B. Creating a backup job
- C. Working with multi-server backup definitions
- D. Accounts and credentials in Backup Exec
- E. Managing server selections
- F. Backup selections – Dynamic inclusion
- G. Backup selections – Resource ordering
- H. Backup selections – Excludes
- I. Adding a backup task
- J. Backup settings – Backup methods
- K. Backup settings – Additional settings
- L. Backup stage basics
- M. Job name fundamentals
- N. Manually running backup jobs

XII. Managing Servers and Jobs

- A. Backup and Restore view
- B. Server groups

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Course Outline (cont'd)

- C. Backup selections – Tag as Business-Critical
 - D. Retired servers group
- XIII. Restoring Data**
- A. Viewing contents of backup sets
 - B. Restore job basics
 - C. Restore settings
 - D. Granular restore technology (GRT)
 - E. Restoring data from a single backup set
 - F. Restoring data from multiple backup sets
 - G. Restoring data from a cloud storage device
 - H. Restoring data from disk storage
 - I. Restoring data from tape
 - J. Restoring data from backup job
 - K. Online Disaster Recovery
 - L. Restoring System State
 - M. Shadow Copy Components
- XIV. Working with the Database Encryption Key**
- A. Backup Exec Database sensitive data components
 - B. Auto-generated AES-256 encryption key
 - C. Protecting the Database Encryption Key (DEK)
- XV. Simplified Disaster Recovery**
- A. Simplified Disaster Recovery fundamentals
 - B. Simplified Disaster Recovery – Backup
 - C. Installing the SDR disk creation wizard
 - D. Creating an SDR disk image (.iso) file
 - E. Recovering a server with SDR
 - F. Windows Storage Pools and Spaces
 - G. SDR additional options
- XVI. Upgrading Backup Exec**
- A. Upgrading the Backup Exec server
 - B. BE CAS and MBES rolling upgrades
 - C. Agent for Windows upgrade
 - D. Migration report
- XVII. Appendix A: Storage Devices**
- A. Windows Storage Pools and Spaces
 - B. Network Storage
 - C. Remote Media Agent for Linux
 - D. Robotic Libraries
 - E. Importing a legacy backup-to-disk folder
- XVIII. Appendix B: Central Admin Server Feature**
- A. Backup Exec CAS: Overview
 - B. Installing the CAS
 - C. Installing MBES
 - D. Backup jobs: MBES and Server Pools
 - E. Restoring Files using CAS
 - F. Instant Recovery jobs
 - G. MBES Settings
 - H. Copy Configuration to MBES
 - I. Upgrading a CAS environment to Backup Exec
 - J. Renaming CAS and MBES
 - K. MBES to Standalone
 - L. Offline Central Admin Server Restore from a Managed
 - M. Backup Exec Server
- XIX. Appendix C: Remote Administration Console**
- A. Installing Backup Exec 20.1 Remote Administration
 - B. Console
 - C. Configuring Backup Exec 20.1 Remote Administration
 - D. Console
- Veritas Backup Exec: Agents and Features**
- XX. Course Introduction**
- A. About this course
 - B. Veritas education and support resources
- XXI. Deduplication Feature**
- A. Data deduplication and Open Storage Technology – Fundamentals
 - B. Enabling the Deduplication Feature
 - C. Configuring Backup Exec deduplication storage
 - D. Exclusion from Windows deduplication
 - E. Configuring OST device
 - F. Deduplication backup job
 - G. Configuring client-side deduplication
 - H. Rehydration

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Course Outline (cont'd)

- I. Optimized duplication
 - J. Protecting Backup Exec deduplication storage
 - K. Best practices for the Deduplication Feature
 - L. OpenDedupe OST connector
 - M. OpenDedupe installation and configuration
 - N. Configuring OpenStorage in Backup Exec
- XXII. Introduction to Remote Agent, Applications and Databases**
- A. Agent for Windows
 - B. Push-installing the Agent for Windows using the Add Server Wizard
 - C. Locally installing the Agent for Windows
 - D. Managing the Agent for Windows
 - E. Agent for Applications and Databases fundamentals
 - F. Enabling the Agent for Applications and Databases feature
- XXIII. Protecting Microsoft Exchange Server**
- A. Backup Exec Agent for Microsoft Exchange: Installation
 - B. Backing up a DAG
 - C. Exchange backup selections
 - D. Exchange backup settings
 - E. Exchange Preferred Servers Only backups
 - F. Restoring Exchange Data
 - G. Exchange Database Restore
 - H. GRT Browse Restore
 - I. GRT Search Restore
 - J. Restore Considerations: GRT
 - K. Restore Considerations: Public Folders
 - L. Restore Considerations: Site Mailbox
 - M. Restore Considerations: Database Overwrite
 - N. Restore Considerations: RDB
 - O. Restore Considerations: Disaster Recovery
 - P. Volume Shadow Copy
 - Q. Troubleshooting: VSS Provider and Exchange Writer
- XXIV. Protecting Microsoft SQL Server**
- A. Microsoft SQL server agent: Installation
 - B. SQL backup selections
 - C. SQL backup settings
 - D. Restoring a Microsoft SQL server database
 - E. Unsupported Microsoft SQL server features
- XXV. Protecting Microsoft SharePoint Server**
- A. SharePoint Agent overview
 - B. Adding a SharePoint server Farm
 - C. Backing up SharePoint
 - D. Restoring SharePoint
- XXVI. Protecting Microsoft Active Directory**
- A. Agent for Microsoft Active Directory
 - B. Traditional Active Directory Restore
 - C. Active Directory: Granular Recovery Technology
- XXVII. Protecting Virtual Environments**
- A. Virtualization technologies
 - B. Backup Exec virtualization Agents
 - C. Installing Agent for VMware and Hyper-V
 - D. Backing up virtual machines
 - E. Instant recovery for virtual machines
 - F. Performing an Instant Recovery for virtual machines
 - G. Removing an Instantly recovered virtual machine
 - H. Instant Recovery Resiliency and Enhancements
 - I. Virtual machine Recovery Ready validation: Overview
 - J. Performing a virtual machine Recovery Ready validation
 - K. Restoring virtual machines
- XXVIII. Performing Virtual Machine Conversions**
- A. Conversion to virtual machine fundamentals
 - B. One-time convert to virtual
 - C. Backup and convert simultaneously
 - D. Backup and convert to virtual machine on schedule
 - E. Convert from a backup set
 - F. Virtual conversion options
 - G. Conversion considerations
- XXIX. Appendix A: Agent for Linux**
- A. Agent for Linux