Symantec Backup Exec 2014: Administration

COURSE DESCRIPTION

The Symantec Backup Exec 2014: Administration course is designed for the data protection professional tasked with backing up and restoring critical data. This five-day, Instructor-led, hands-on class covers how to back up and restore data, configure storage devices, manage media, and maintain the Backup Exec database. Students also learn how to configure and work with various Backup Exec Agents, which protect applications like Microsoft Exchange, Microsoft SharePoint, and Microsoft SQL. The course also covers the Virtual Environment Agents and the Deduplication Option.

Delivery Method
Instructor-Led Training

Duration
Five days

Course Objectives

By the end of this course, you will be able to:
- Describe the basic functions of Backup Exec 2014.
- Manage devices and media used by Backup Exec.
- Run basic backup jobs.
- Explain the enhancements made to the backup and restore workflows.
- Restore backed-up data.
- Tune device performance and maintain the Backup Exec database.
- Protect remote servers using the appropriate Remote Agent.
- Install, configure, and work with the Backup Exec Deduplication Option
- Use Backup Exec to protect databases and applications.
- Install, configure, and work with the following Backup Exec Agents:
  - Agent for Microsoft SQL Server
  - Agent for Microsoft Exchange
  - Agent for Microsoft SharePoint
  - Agent for VMware and Hyper-V
  - Agent for Active Directory
- List the supported virtual conversion configurations.
- Create a custom Simplified Disaster Recovery SDR disk.
- Use Simplified Disaster Recovery SDR for disaster recovery.
- Install, configure, and manage the Symantec Backup Exec Central Admin Server Option.

Who Should Attend

This course is designed for system administrators, system engineers, technical support personnel, consultants, network administrators, backup administrators, backup operators, and others who are responsible for installing, configuring, and administering Backup Exec 2014.

Prerequisites

You must have basic working knowledge of administration and configuration of the Windows Server 2008 and Windows Server 2012 platforms. You must also have experience configuring server software and hardware. Basic working knowledge of domain security and experience with Active Directory and Windows Server 2008 and Windows Server 2012 are recommended.

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

Hands-On

This course includes practical, hands-on lab exercises that enable you to test your new skills and begin to transfer them to your working environment. Additionally, assessment items at the end of each lesson test your knowledge and comprehension of the information provided.

COURSE OUTLINE

Symantec Backup Exec 2014: Install and Configure

Course Introduction
- About this course
- Symantec’s Education and Support resources

Backup Exec Fundamentals
- Data backup basics
- Symantec’s backup solution offerings
- Backup Exec 2014 essentials
- Backup Exec architecture

Installing Backup Exec 2014
- New installation of a Backup Exec server
- Typical installation of Backup Exec
- Custom installation of a Backup Exec
- Launching Backup Exec 2014
• Updating Backup Exec 2014
• Upgrading to Backup Exec 2014

Storage Devices
• Configuring storage devices
• Managing devices

Data Management
• Managing media
• Data Lifecycle Management
• Managing tapes with media sets
• Media catalogs

Backing Up Data
• Adding a Server
• Backup Selections
• Multi-server backup definition
• Accounts and Credentials in Backup Exec
• Server Selections
• Backup Selections: Dynamic Inclusion
• Backup Selections: Resource Ordering
• Backup Selections: Excludes
• Adding a Backup Task
• Backup Settings: Backup Methods
• Backup Settings: Additional Settings
• Backup Stage
• Job name
• Manually running backup jobs

Managing Servers and Jobs
• Backup and Restore view
• Server Groups
• Retired Servers Group

Restoring Data
• Restore job basics
• Restore settings
• Granular restore
• Restoring data from single backup set
• Restoring data from multiple backup sets
• Restoring data from tape
• Restoring data from backup job
• Online Disaster Recovery
• Restoring System State
• Restoring Shadow Copy Components

Simplified Disaster Recovery
• Simplified Disaster Recovery fundamentals
• Simplified Disaster Recovery: Backup
• Installing the SDR disk creation wizard
• Creating an SDR disk image (.iso) file
• Recovering a server with SDR
• Windows Storage Pools and Spaces
• SDR additional options

Virtual Machine Conversion
• Conversion to virtual machines fundamentals
• Convert to virtual machine
• Backup and convert simultaneously
• Backup and convert on a schedule
• Convert from a backup set
• Virtual conversion options
• Incremental Conversions
• Conversion Considerations

Central Admin Server Option
• Backup Exec 2014 CASO: Overview
• Installing the CAS
• Installing MBES
• Backup jobs: MBES and Server Pools
• Restoring Files using CASO
• MBES Settings
• Copy Configuration to MBES
• Upgrading a CASO environment to Backup Exec 2014
• MBES to Standalone

Symantec Backup Exec 2014: Manage and Administer

Course Introduction
• About this course
• Symantec’s Education and Support resources
• Typographic conventions used in this course

Remote Agents
• Introduction to Remote Agents
• Agent for Windows
• Push-installation of the Agent for Windows using the Add Server wizard
• Push-installation of the Agent for Windows to virtual machines
• Local installation of the Agent for Windows
• Managing the Agent for Windows
• Agent for Linux and Agent for Mac

Agent for Applications and Databases
• Agent for Applications and Databases fundamentals
• Installing the Agent for Applications and Databases

Agent for Active Directory
• Agent for Microsoft Active Directory
• Traditional Restore of Active Directory
• GRT Restore

Agent for Microsoft SQL Server
• Microsoft SQL Server agent installation
• Backup Selections
• Backup Settings
• Restoring a Microsoft SQL Server database
• Unsupported Microsoft SQL Server features

Agent for Microsoft Exchange Server
• Backup Exec 2014 Agent for Microsoft Exchange:
  Install
• Add an Exchange Server / Database Availability
  Group
• Backup Selections
• Backup Settings
• Restoring Exchange
• Database Restore
• GRT Browse Restore
• GRT Search Restore
• Restore Considerations: GRT
• Restore Considerations: Public Folders
• Restore Considerations: Site Mailbox
• Restore Considerations: Database Overwrite
• Restore Considerations: RSG/RDB
• Restore Considerations: Disaster Recovery
• Volume Shadow Copy
• Troubleshooting: VSS Provider and Exchange Writer

Agent for SharePoint Server
• SharePoint Agent Overview
• Add SharePoint Farm
• Backing up SharePoint
• Restoring SharePoint

Virtual Environment Agents
• Virtualization technologies
• Installing the Agent for VMware and Hyper-V
• Adding a host
• Installing Agent for Windows on virtual machines
• Backup
• Restore

Deduplication Option
• Data deduplication and Open Storage Technology:
  Fundamentals
• Installing the Deduplication Option
• Configuring BE Deduplication Option
• Exclusion from Windows deduplication
• Configuring OST device
• Deduplication backup job
• Configuring Client-side Dedup
• Rehydration
• Optimized duplication
• Protect BE Dedup storage