Veritas Backup Exec 22: Administration (BE22)

ID BE22 **Preis** 3.100,– € (exkl. MwSt.) **Dauer** 5 Tage

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Kursüberblick

Der Kurs Veritas Backup Exec 22: Administration ist ein Kurs mit Laborübungen. Er richtet sich an Datensicherungsexperten, die mit der Bereitstellung, Konfiguration, Wartung und Verwaltung einer Backup Exec-Umgebung betraut sind.

Der Kurs behandelt Backup Exec-Konzepte, die Sicherung und Wiederherstellung wichtiger Daten, die Konfiguration von Speichergeräten und -medien sowie die Arbeit mit verschiedenen Backup Exec-Agenten und -Optionen, die Anwendungen wie Microsoft Exchange, Microsoft SharePoint, Microsoft SQL, Microsoft 365, Active Directory, Cloud, Oracle und virtuelle Umgebungen schützen.

Zielgruppe

Dieser Kurs richtet sich an Systemadministratoren, Systemingenieure, technisches Supportpersonal, Berater, Backup-Administratoren, Backup-Operatoren und andere Personen, die für die Installation, Konfiguration, Verwaltung und Überwachung von Backup Exec 22 verantwortlich sind.

Voraussetzungen

Sie müssen über grundlegende Kenntnisse in der Verwaltung und Konfiguration von Windows Server 2016 und neueren Plattformen verfügen. Grundlegende Kenntnisse in den folgenden Anwendungen sind von Vorteil, aber nicht erforderlich:

- Microsoft SQL Server
- Microsoft Exchange Server
- Microsoft SharePoint Portal Server
- Microsoft Hyper-V
- Virtuelle Infrastruktur von VMware.
- Oracle
- Cloud-Technologien
- Microsoft 365

Kursziele

Nach Abschluss dieses Kurses werden Sie in der Lage sein:

- Beschreiben Sie die Funktionalität und Architektur von Backup Exec.
- Installation und Upgrade auf Backup Exec 22.
- Konfigurieren Sie Speichergeräte - Cloud-basierten Speicher und Netzwerkspeicher.
- Sichern und Wiederherstellen von Daten auf der Festplatte, im Netzwerk und in der Cloud.
- Durchführung von Bandgeräten und Bandverwaltung.
- Verwalten Sie Server und Aufträge.
- Einstellungen und Methoden für die Sicherung und Wiederherstellung festlegen.
- Arbeiten Sie mit dem Datenbankverschlüsselungsschlüssel.
- Online Disaster Recovery durchführen.
- Installieren Sie den Assistenten zur Erstellung von SDR-Datenträgern, erstellen Sie ein SDR-Datenträgerabbild und stellen Sie einen Server mit SDR wieder her.
- Sichern Sie einen physischen Computer und konvertieren Sie ihn in einen virtuellen Computer, entweder gleichzeitig oder nach einem Zeitplan.
- Installieren, konfigurieren und verwalten Sie die Funktion Backup Exec Central Admin Server.
- Konfigurieren Sie Backup Exec Deduplication Storage.
- Schützen Sie Remote-Server mit den entsprechenden Remote-Agenten, Anwendungen und Datenbanken.
- Verwenden Sie Backup Exec zum Schutz von Datenbanken und Anwendungen, einschließlich;
    - Microsoft Hyper-V
    - Microsoft SQL Server
    - Microsoft Exchange
    - Microsoft SharePoint
    - Microsoft 365
    - Aktives Verzeichnis
    - Oracle
- Schutz der virtuellen Umgebung
- Konvertierung virtueller Maschinen durchführen.

Kursinhalt

- Grundlagen von Backup Exec
- Lizenzierung von Backup Exec
- Installation von Backup Exec
- Arbeiten mit der Backup Exec-Verwaltungskonsole
- Plattenspeichergeräte
- Cloud-basierte Speichergeräte
- Netzwerkspeichergeräte
- Verwaltung von Festplatten- und Netzwerkdaten
- Bandgeräte und Bandverwaltung
- Sichern von Daten
- Verwalten von Servern und Aufträgen
- Wiederherstellung von Daten
- Arbeiten mit dem Datenbankverschlüsselungsschlüssel
- Vereinfachte Disaster Recovery
- Upgrade von Backup Exec
- Merkmal Zentraler Verwaltungsserver
- Funktion Deduplizierung
- Funktionen für Sicherheit und Compliance
- Remote Agent, Anwendungen und Datenbanken
- Schutz von Microsoft Exchange Server
- Schutz von Microsoft SQL Server
- Schutz von Microsoft SharePoint Server
- Schutz von Microsoft Active Directory
- Schutz von Microsoft 365
- Schutz von virtuellen Umgebungen - Teil 1
- Schutz von virtuellen Umgebungen - Teil 2
- Durchführen von Konvertierungen virtueller Maschinen
- Agent für Linux und UNIX
- Agent für Oracle

Detaillierter Kursinhalt

Backup Exec Fundamentals

- Data Backup Basics
- Backup Exec Solution Offerings
- Backup Exec Architecture

Licensing Backup Exec

- Subscription, Perpetual, and Custom Licensing
- Trialware and upgrades
- Capacity and subscription license enforcement
- Updating licensing information
- Capacity widget and capacity metering
- Maintenance and Extended Support Licensing

Installing Backup Exec

- Backup Exec: New installation
- Typical Installation of Backup Exec
- Custom Installation of Backup Exec
- Installation Details
- Applying Backup Exec Updates

Labs

- Exercise A: Installing Veritas Backup Exec
- Exercise B: Verifying the Veritas Backup Exec Installation
- Exercise C: Adding Backup Exec Licenses
- Exercise D: Configuring and Running Veritas Update
- Exercise E: Viewing the Backup Exec License

Working with the Backup Exec Administration Console

- Installing and Configuring the Backup Exec Administration Console
- Using the Backup Exec Administration Console
- Exploring the Backup Exec Administration Console
- Introduction to Backup and Restore
- Introduction to BEMCLI

Labs

- Exercise A: Installing the Backup Exec Remote Administration Console
- Exercise B: Exploring the Home tab of the Backup Exec Administration Console
- Exercise C: Working with the Configuration Task Widget
- Exercise D: Exploring the Backup Exec Administration Console
- Exercise E: Creating a Configured View
- Exercise F: Creating a Disk Storage
- Exercise G: Creating a Basic Backup Job
- Exercise H: Creating a Basic Restore Job

Disk Storage Devices

- Backup Exec Storage Devices
- Viewing disk storage: Storage View
- Disk Cartridge Devices
- Deduplication Disk Storage
- Importing a Legacy Backup-to-disk Folder
- Backup Exec Storage Pools
- Windows Storage Pool and Spaces

Labs

- Exercise A: Creating a Disk Storage Device Using the Configuration Wizard
- Exercise B: Viewing the Disk Storage in the Backup Exec Management Command Line Interface
- Exercise C: Viewing Disk Storage Device Properties
- Exercise D: Creating a Storage Pool

Cloud-based Storage Devices

- Basics of Cloud storage Support in Backup Exec
- Amazon S3 Cloud-based Storage
- Google Cloud-based Storage
- Microsoft Azure Cloud-based Storage
- Backup Exec Cloud Deduplication
- Configuring a Cloud-storage Device in Backup Exec
- Managing Cloud-storage in Backup Exec

Labs

- Exercise A: Configuring Generic S3 Compatible Cloud Storage in Backup Exec
- Exercise B: Backing up data to Generic S3 Cloud-based Storage
- Exercise C: Configuring Deduplication on Generic S3 Compatible Cloud Storage

Network Storage Devices

- Network Storage Devices
- OpenStorage Devices (Third-party deduplication)
- Backup Exec Remote Media Agent for Linux
- NDMP Servers

Disk and Network Data Management

- Data Lifecycle Management Fundamentals
- DLM Rules: Overview
- Dependent Backup Sets
- DLM Dependent Rules
- Manual Expiration and Retention
- Read-only Setting
- Media Catalogs

Labs

- Exercise A: Manually Performing Two Sets of Full and Incremental Backups
- Exercise B: Manually Expiring the Backup Sets
- Exercise C: Retaining Backup Sets and Changing the Expiration Date of a Backup Set

Tape Devices and Tape Management

- Tape Storage
- Managing Tapes
- Robotic Libraries
- Tape Storage Operations
- Tape Storage: Alerts

Labs

- Exercise A: Inventorying Robotic Libraries when Backup Exec Services Start
- Exercise B: Configuring Barcode Rules for a Robotic Library
- Exercise C: Assigning a Cleaning Slot to a Robotic Library
- Exercise D: Understanding Storage Default Values
- Exercise E: Viewing Default Media Sets
- Exercise F: Creating a Media Set
- Exercise G: Creating a Media Vault
- Exercise H: Assigning a Media Set to a Media Vault
- Exercise I: Assigning Tapes to a Media Set
- Exercise J: Backing up to Tape
- Exercise K: Restoring from Tape

Backing Up Data

- Preparing for Backups
- Adding a Server
- Creating a Backup Job
- Multi-server Backups
- Accounts and Credentials in Backup Exec
- Managing Server Selections
- Backup Selections
- Excluding Files from the Backup
- Backup Settings
- Backup Stage Basics
- Job Name Fundamentals
- Manually Running Backup Jobs

Labs

- Exercise A: Adding a Server
- Exercise B: Backing Up Files and Folders
- Exercise C: Creating a One-time Backup Job
- Exercise D: Creating a New Backup Job Using the Settings from an Existing Backup
- Exercise E: Backing up Multiple Servers
- Exercise F: Backing up System State
- Exercise G: Working with Backup Methods
- Exercise H: Adding a Stage to a Backup

Managing Servers and Jobs

- Backup and Restore View
- Server Groups
- Tag as Business-Critical

Labs

- Exercise A: Creating a Server Group
- Exercise B: Viewing Server Details
- Exercise C: Tagging a Resource as Business-critical and Backing it up
- Exercise D: Tagging a Resource as Business-critical from the Include/Exclude Window
- Exercise E: Examining Pre-defined and Custom Reports

- Exercise F: Viewing Job Log Details

Restoring Data

- Contents of a Backup Set
- Restore Job Basics
- Restore Settings
- Granular Restore Technology (GRT)
- Restoring Data
- Online Disaster Recovery
- Restoring System State
- Shadow Copy Components

Labs

- Exercise A: Viewing the Contents of a Backup Set
- Exercise B: Restoring Data to the Default Location
- Exercise C: Restoring Data to an Alternate Location
- Exercise D: Restoring File and Folder Permissions
- Exercise E: Restoring Data Using the Search Wizard
- Exercise F: Restoring Data to a VHD
- Exercise G: Restoring Data Directly from a Disk
- Exercise H: Restoring Data from a Tape Backup
- Exercise I: Restoring a Business-Critical Resource

Working with the Database Encryption Key

- Backup Exec Database Sensitive Data Components
- Auto-generated AES-256 Encryption Key
- Protecting the Database Encryption Key (DEK)

Labs

- Exercise A: Viewing the Database Encryption Key
- Exercise B: Viewing the Database Encryption Key and Attempting to Back it up
- Exercise C: Exporting the Database Encryption Key
- Exercise D: Backing Up and Restoring the Database Encryption Key

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

Labs

- Exercise A: Adding a Server
- Exercise B: Viewing and Identifying Critical System Devices
- Exercise C: Creating a Simplified Disaster Recovery Enabled Backup Job
- Exercise D: Performing a Complete Online Restore of a Computer – Walkthrough
- Exercise E: Creating a Simplified Disaster Recovery Disk
- Exercise F: Recovering appsrv1 Using the SDR Disk

Upgrading Backup Exec

- Basics of Upgrading the Backup Exec Server
- Standard and Rolling Upgrade – Backup Exec
- Agent for Windows Upgrade
- Migration Report

Labs

- Exercise A: Upgrading Veritas Backup Exec
- Exercise B: Upgrading the Agent for Windows

Central Admin Server Feature

- Backup Exec CAS: Overview
- Installing the CAS
- Installing the Managed Backup Exec Server (MBES)
- Instant Recovery Jobs in a CAS Environment
- MBES Settings
- Backup Jobs: MBES and Server Pools
- Restoring Files using CAS
- Copying Configuration to MBES
- Instant Recovery jobs in a CAS environment
- MBES Settings
- Copy Configuration to MBES
- Upgrading a CAS Environment to Backup Exec 22
- Renaming CAS and MBES
- MBES to Standalone
- Offline Central Admin Server Restore from a Managed Backup Exec Server

Labs

- Exercise A: Installing the CAS Feature
- Exercise B: Converting a Backup Exec Server to a Managed Backup Exec Server
- Exercise C: Viewing the Settings for a Managed Backup Exec Server
- Exercise D: Creating a Backup Exec Server Pool
- Exercise E: Restoring Data from CAS
- Exercise F: Using Optimized Duplication with the Central Admin Server
- Exercise G: (Optional) Changing the CAS Storage and Media Data Location for MBES
- Exercise H: (Optional) Running the Backup Exec Utility for CAS Operations

Deduplication Feature

- Data Deduplication and Open Storage Technology: Fundamentals
- Deduplication Feature Option
- Configuring Backup Exec Deduplication Storage
- Exclusion from Windows Deduplication
- Deduplication Backup Job
- Configuring Client-side Deduplication
- Rehydration
- Optimized Duplication
- Protecting the Backup Exec Deduplication Storage
- Best Practices for the Deduplication Feature
- OpenStorage devices (Third-party deduplication)
- OpenDedupe OST Connector
- OpenDedupe Installation and Configuration
- Configuring OpenStorage in Backup Exec
- Upgrading from Backup Exec 21 to Backup Exec 22

Labs

- Exercise A: Verifying the Deduplication Feature Installation
- Exercise B: Creating a Deduplication Storage Folder
- Exercise C: Creating a Backup Job to Backup Data to the Deduplication Disk Storage (Server-side deduplication)
- Exercise E: Verifying Data Deduplication
- Exercise F: Restoring Deduplication Data
- Exercise G: Creating a Client-side Deduplication Job

Security and Compliance Features

- Backup Exec Support for GDPR
- Backup Exec Support for Ransomware Resilience

Labs

- Exercise A: Working with the GDPR Guard Feature
- Exercise B: Working with the Ransomware Resilience Feature

Remote Agent, Applications, and Databases

- Agent for Windows: Fundamentals
- Installing the Agent for Windows
- Managing the Agent for Windows
- Agent for Applications and Databases: Fundamentals
- GRT Support for Agent, Applications, and Databases
- Enabling the Agent for Applications and Databases Feature

Labs

- Exercise A: Viewing Backup Exec License Information
- Exercise B: Installing the Agent for Windows
- Exercise C: Viewing the Agent for Windows Installation Footprint
- Exercise D: Backing Up a Remote Windows Computer
- Exercise E: Restoring Data to a Remote Windows Computer

Protecting Microsoft Exchange Server

- Installing the Backup Exec Agent for Microsoft Exchange
- Backing up a DAG
- Exchange Backup Selections
- Exchange Backup Settings
- Exchange Preferred Servers Only Backups
- Restoring Exchange data
- Redirected Restore Considerations
- VSS Providers and Exchange Writers

Labs

- Exercise A: Viewing the Exchange DAG Configuration
- Exercise B: Backing Up an Exchange DAG
- Exercise C: Restoring Exchange Mailbox Items
- Exercise D: Restoring Exchange Mailbox Items Using Search
- Exercise E: Performing a Redirected Restore of Exchange Databases and Logs

Protecting Microsoft SQL Server

- Agent for Microsoft SQL Server: Fundamentals
- Microsoft SQL Backup Selections
- Backing up a Microsoft SQL Server
- Restoring a Microsoft SQL Server Database
- Supported Microsoft SQL Server Features

Labs

- Exercise A: Backing up SQL Server System Databases
- Exercise B: Restoring a SQL Server Database
- Exercise C: Restoring a SQL Server Database to an Alternate Location

Protecting Microsoft SharePoint Server

- Agent for Microsoft SharePoint: Fundamentals
- Backing up Microsoft SharePoint
- Restoring Microsoft SharePoint

Labs

- Exercise A: Viewing the SharePoint Site Details
- Exercise B: Backing Up SharePoint
- Exercise C: Performing a SharePoint GRT Restore for a Task
- Exercise D: Performing a SharePoint Redirect Restore for a Document

- Exercise E: Restoring a Versioned Document
- Exercise F: Restoring a SharePoint Portal Site

Protecting Microsoft Active Directory

- Agent for Microsoft Active Directory: Fundamentals
- Traditional Active Directory Restore
- Active Directory: Granular Recovery Technology

Labs

- Exercise A: Backing up Microsoft Active Directory
- Exercise B: Restoring Active Directory Objects

Protecting Microsoft 365

- Integrated Microsoft 365
- Support for Backing Up Microsoft 365 Tenant Data
- Restoring Microsoft 365 Tenant Data
- Notes And Best Practices For Microsoft 365

Protecting Virtual Environments – Part 1

- Virtualization technologies
- Backup Exec virtualization agents
- Installing Agent for VMware and Hyper-V
- Backing up virtual machines
- Restoring virtual machines

Labs

- Exercise A: Verifying the Agent for VMware and Hyper-V Installation
- Exercise B: Connecting to and Viewing the ESX Server Configuration
- Exercise C: Adding the vCenter Server to Backup Exec
- Exercise D: Backing up an ESXi Server
- Exercise E: Restoring a VMware Virtual Machine

Protecting Virtual Environments – Part 2

- Instant Recovery for Hyper-V and VMware Virtual Machines
- Performing an Instant Recovery for a Virtual Machine
- Removing an Instantly Recovered Virtual Machine
- Instant Cloud Recovery for Hyper-V and VMware
- Virtual machine Recovery Ready validation

Labs

- Exercise A: Performing an Instant Recovery of a Windows Virtual Machine
- Exercise B: Performing an Instant Recovery of a Non-Windows Virtual Machine
- Exercise C: Removing Instantly Recovered Virtual Machines
- Exercise D: Creating a Validate Virtual Machine for a Recovery Job for a Windows Virtual Machine
- Exercise E: Creating a Validate Virtual Machine for a Recovery Job for a Non-Windows Virtual Machine
- Exercise F: Working with the Virtual Machine Backups Widget
- Exercise G: Backing Up a Virtual Machine Skipping PageFile.sys

Performing Virtual Machine Conversions

- Conversion to virtual machine: Fundamentals
- Backup and then convert workflow
- Backup and simultaneously convert workflow
- Convert to a virtual machine from a point-in-time
- One-time Convert to virtual machine
- Virtual conversion options
- Conversion considerations

Labs

- Exercise A: Performing a Backup and then a Virtual Conversion

Agent for Linux and UNIX

- Agent for Linux and UNIX

Labs

- Exercise A: Installing the Agent for Linux
- Exercise B: Backing up a Linux Server
- Exercise C: Restoring Data to Linux Computers
- Exercise D: Restoring Data to an Alternate Location
- Exercise E: Configuration Options for Linux Computers

Agent for Oracle

- Agent for Oracle on Windows or Linux Servers
- Installing the Oracle Agent on Windows or Linux Servers
- Configuring the Oracle Agent on Windows or Linux Servers
- Authenticating Credentials on the Backup Exec Server
- Backing up Oracle Databases
- Restoring Oracle Databases
- Best Practices for Backup Exec Agent for Oracle on Windows and Linux Servers

Labs

- Exercise A: Verifying the Backup Exec Remote Agent (RALUS) Installation on the Linux Server
- Exercise B: Configuring the Oracle Agent on the Linux

Server
- Exercise C: Performing Oracle Database Backup
- Exercise D: Restoring Data
- Exercise E: Performing a DBA-Initiated Backup Job
- Exercise F: Installing and Configuring Backup Exec Remote Media Agent (RMAL) on the Linux Server

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