

Arctera Backup Exec 25.X: Administration

Course Description

COURSE DESCRIPTION

Acquire the skills to make your data protection strategy successful with the Arctera Backup Exec 25.X: Administration course. The course is designed for the data protection professional tasked with deploying, configuring, maintaining, and managing a Backup Exec environment.

The course covers Backup Exec concepts, how to back up and restore critical data, configure storage devices and media, and work with various Backup Exec agents and options, which protect applications like Microsoft Exchange, Microsoft SharePoint, Microsoft SQL, Microsoft 365, Active Directory, Cloud, Oracle, and Virtual environments. The course covers Backup Exec concepts, how to back up and restore critical data, configure storage devices and media, and work with various Backup Exec agents and options, which protect applications like Microsoft Exchange, Microsoft SharePoint, Microsoft SQL, Microsoft 365, Active Directory, Cloud, Oracle, and Virtual environments.

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: 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

After completing this course, you will be able to:

- Describe the functionality and architecture of Backup Exec.
- Install and upgrade to Backup Exec.
- Configure Cloud-based and Network storage devices.
- Backup data to and restore data from disk, network, and the Cloud.
- Perform tape devices and tape management.
- Manage servers and jobs.
- Set backup and recovery settings and methods.
- Work with the Database Encryption Key.
- Perform online Disaster Recovery.
- Install the SDR disk creation wizard, create an SDR disk image, and recover a server with SDR.
- Back up a physical machine and convert to a virtual machine either simultaneously or on a schedule.
- Install, configure, and manage the Backup Exec Central Administration Server feature.
- Configure Backup Exec Deduplication Storage.
- Protect remote servers using the appropriate remote agents, applications, and databases.
- Use Backup Exec to protect databases and applications, including:
 - Microsoft Hyper-V
 - Microsoft SQL Server

- Microsoft Exchange
- Microsoft SharePoint
- Microsoft 365
- Active Directory
- Oracle

- Protect virtual environments.
- Perform virtual machine conversions.

Who Should Attend

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

Prerequisites

You must have a basic working knowledge of administering and configuring Windows Server 2016 and later platforms. 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.
- Oracle
- Cloud Technologies
- Microsoft 365

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.

COURSE OUTLINE

Backup Exec Fundamentals

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

Installing Backup Exec

- Preparing for Backup Exec Installation
- Performing Backup Exec Installation
- Verifying Backup Exec Installation
- Performing Post Installation Tasks
- Upgrading the Backup Exec server

Labs

- Exercise A: Installing Arctera Backup Exec
- Exercise B: Verifying the Arctera Backup Exec Installation
- Exercise C: Viewing the Backup Exec License
- Exercise D: Installing Remote Administrator Console

Working with the Backup Exec Administration Console

- Introducing the Backup Exec Administration Console

- Exploring the Backup Exec Administration Console
- Performing Operations on the Backup Exec Administration Console
- Configuring Alerts and Notifications
- Introduction to BEMCLI

Labs

- Exercise A: Exploring the Home Tab of the Backup Exec Administration Console
- Exercise B: Working with the Configuration Task Widget
- Exercise C: Exploring the Backup Exec Administration Console
- Exercise D: Creating a Configured View
- Exercise E: Viewing and Managing Alerts

Configuring Disk-based and Network-based Storage

- Backup Exec Storage Devices
- Configuring Disk-based Storage Devices
- Configuring Network-based Storage
- Viewing Disk-storage Properties: Storage

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

Configuring Cloud-based Storage Devices

- Basics of Cloud storage Support in Backup Exec
- Configuring Cloud-based Storage
- Configuring Backup Exec Cloud Deduplication
- Cloud Storage Management Tools

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

Understanding Data Lifecycle Management and Storage Operations

- Data Lifecycle Management
- Managing Storage Devices in Backup Exec

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

Configuring and Managing Tape Storage

- Tape Storage

- Managing Tapes
- 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
- Creating a Backup Job
- Backup Settings
- Backup Stage Basics
- 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

Understanding Data Restore and System Recovery

- Understanding Data Restoration and Recovery
- Performing Restore
- Simplified Disaster Recovery

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: Viewing and Identifying Critical System Resources
- Exercise E: Creating a Simplified Disaster Recovery Enabled Backup Job
- Exercise F: Performing a Complete Online Restore of a Computer - Walkthrough
- Exercise G: Creating a Simplified Disaster Recovery Disk
- Exercise H: Recovering the Application Server using the SDR disk

Backup Exec Deduplication and Optimized Duplication

- Introduction to Deduplication
- Configuring Deduplication in Backup Exec
- Optimized Duplication
- Best Practices for Deduplication

Labs

- Exercise A: Verifying the Deduplication Feature Installation
- Exercise B: Creating a Deduplication Storage Device
- Exercise C: Performing Backup on Deduplication Storage
- Exercise E: Verifying Data Deduplication
- Exercise F: Restoring Deduplication Data
- Exercise G: Creating a Client-side Deduplication Job

Security and Compliance in Backup Exec

- Role-Based Access Control (RBAC) and User Management
- Encryption and Database Security
- Compliance and Audit Logging
- Ransomware Resilience and System

Labs

- Exercise A: Viewing the Database Encryption Key and attempting to back it up
- Exercise B: Exporting the Database Encryption Key
- Exercise C: Working with the GDPR Guard feature
- Exercise D: Working with the Ransomware Resilience features
- Exercise E: Working with Anomaly Detection Feature

Managing Backup Exec Central Administration Server (CAS)

- Introduction to Backup Exec Central Administration Server (CAS)
- Installing and Configuring CAS and MBES Server
- Centralized Job and Resource Management in CAS
- Restore and Recovery in CAS Environment
- Troubleshooting and Maintenance

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

Backup Exec Agent for Remote Systems, Applications, and Databases

- Backup Exec Agent for Remote Systems, Applications, and Databases
- Introduction to Backup Exec Agents
- Installing and Managing the Backup Exec Agent for Windows
- Installing and Managing the Backup Exec Agent for Linux and Unix
- Agent for Applications and Databases: Fundamentals

Labs

- Exercise A: Installing the Agent for Windows
- Exercise B: Backing up a remote Windows computer
- Exercise C: Restoring data to a remote Windows computer
- Exercise D: Installing the Agent for Linux
- Exercise E: Backing up Linux server
- Exercise F: Restoring data to Linux computers
- Exercise G: Configuration options for Linux computers

Protecting VMware Environments

- Introduction to Backup Exec Support for VMware
- Configuring the Agent for VMware
- Backing Up VMware Virtual Machines
- Restoring VMware Virtual Machines

Lab – Part 1

- Exercise A: Verifying the Agent for VMware and Hyper-V Installation
- Exercise B: Connecting to and viewing 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

Lab – Part 2

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

Protecting Microsoft Hyper-V Environment

- Introduction to Backup Exec Support for Hyper-V
- Configuring the Agent for Hyper-V
- Backing Up Hyper-V Virtual Machines
- Restoring Hyper-V Virtual Machines

Labs

- Exercise A: Adding Hyper-V Host to Backup Exec
- Exercise B: Performing Hyper-V VM Backup
- Exercise C: Restoring a Hyper-V VM
- Exercise D: Performing an Instant Recovery of a VM
- Exercise E: Removing an Instantly Recovered VM

Performing Virtual Machine Conversions

- Introducing Physical to Virtual Conversion
- Methods of Physical to Virtual Machine Conversion
- Configuring Physical to Virtual Conversion Jobs
- Best Practices and Considerations

Labs

- Exercise A: Performing a Backup Task and then a Virtual Conversion
- Exercise B: Verifying the Backup Task of a Virtual Conversion

Protecting Microsoft Exchange Server

- Introduction to Backup Exec Agent for Exchange
- Configuring Backup Exec for Exchange Server Protection
- Restoring Exchange Data
- Advanced Configuration and Best Practices

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
- 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 365

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

Protecting Microsoft Active Directory

- Agent for Microsoft Active Directory: Fundamentals
- Restoring Individual Active Directory and ADAM/AD LDS Objects
- Active Directory: Granular Recovery Technology

Agent for Oracle on Windows or Linux Servers

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

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

About Arctera

Arctera helps organizations around the world thrive by ensuring they can trust, access, and illuminate their data from creation to retirement. Created in 2024 from Veritas Technologies, an industry leader in secure multi-cloud data resiliency, Arctera comprises three business units: Data Compliance, Data Protection, and Data Resilience. Arctera provides more than 75,000 customers worldwide with market-leading solutions that help them to manage one of their most valuable assets: data. Learn more at www.arctera.io. Follow us on X [@arcteraio](https://twitter.com/arcteraio).



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