Administration of Symantec Backup Exec™ 2014 Study Guide

The following tables list the Symantec SCS Certification exam objectives for the Administration of Symantec Backup Exec 2014 exam and how these objectives align to the Symantec Backup Exec 2014: Administration course.

Recommended courses to prepare for this exam:
- Symantec Backup Exec 2014: Administration (ILT/VA)
- OR
- Symantec Backup Exec 2014: Install and Configure – 3 day (ILT/VA) and
- Symantec Backup Exec 2014: Manage and Administer – 2 day (ILT/VA)

The product documentation for this exam is:
- Symantec Backup Exec 2014 Customer Licensing Guide
- Symantec Backup Exec 2014 Readme First Release Notes
- Symantec Backup Exec 2014 Administrator's Guide
- Symantec Backup Exec 2014 Administrator's Guide Addendum
- Symantec Backup Exec EOL Items
- Symantec Backup Exec 2014 Software Compatibility List
- Symantec Backup Exec 2014 Hardware Compatibility List

Recommended Symantec Backup Exec 2014 eLibrary Modules:
- Backup Exec 2014: Overview
- Installing Backup Exec 2014
- Backup Exec 2014 Licensing
- Backup Exec 2014 Installation Enhancements: New Default Database
- Backup Exec 2014 Installation Enhancements: Backup Exec Credentials
- Installing the Backup Exec 2014 Server on Microsoft Windows Server 2012 and Microsoft Windows Server 2012 R2
- Upgrading to Backup Exec 2014
- Upgrading to Backup Exec 2014 CASO
- Backup Exec 2014: Graphical User Interface Enhancements
- Backup Exec 2014 Job Monitor
- Backup Exec 2014 Core: Storage Enhancements
- Backup Exec 2014 Data Lifecycle Management
- Backup Exec 2014 Core: Retired Servers Group
- Backup Exec 2014 Core: Mixed Backup Method
- Backup Exec 2014 Core: Multi-server Backup Definitions
- Enhancements to System State Backups and Active Directory Granular Restore
- Backup Exec 2014 Restore Enhancements
• Backup Exec 2014 Scheduling Enhancements
• Backup Exec 2014 Schedule Upgrade
• Enhancements to Backup Exec 2014 Alerts
• Backup Exec 2014 Support for Resilient File System (ReFS)
• Backup Exec 2014 Core: Support for Microsoft Windows Server 2012 Storage Spaces
• Backup Exec 2014 Core: Support for 4k Disks
• Backup Exec 2014 Enhancements for Windows User and System Registries
• Backup Exec 2014 Support for Backup and Recovery of Microsoft Windows Recovery Environment
• Renaming the Backup Exec Server
• Backup Exec 2014 Advanced Open File Option Enhancements
• Backup Exec 2014 Simplified Disaster Recovery Enhancements
• Delayed Cataloging Enhancements
• Backup Exec Debug Monitor Enhancements
• Backup Exec 2014: Enhancement to Backup Exec Utility
• Backup Exec 2014 BEDBG
• Backup Exec 2014 Backup Exec Management Command Line Interface Enhancements
• Backup Exec 2014: Physical to Virtual Enhancements
• Backup Exec 2014 Installation Enhancements: Push Installing Agent for Windows to Multiple Virtual Machines
• Backup Exec 2014: Agent for VMware Enhancements
• Backup Exec 2014: Agent for Hyper-V Enhancements
• Backup Exec 2014: Microsoft SQL Server Agent Enhancements
• Backup Exec 2014: Agent for Microsoft SharePoint Enhancements
• Site Mailbox
• Backup Exec 2014: Microsoft Exchange Server Agent Enhancements
• Backup Exec 2014: Agent for Lotus Domino Enhancements
• Backup Exec 2014 Deduplication Enhancements

Examples of Hands-on Experience (Real World or Virtual):
• Recommended 3-6 months experience working with Symantec Backup Exec and 3 months experience working with Symantec Backup Exec 2014 in a production or lab environment.
• Identify installation/agent and option prerequisites.
• Install, configure, manage, monitor, maintain, and troubleshoot the components of Backup Exec 2014.
• Configure the Backup Exec services account and database.
• Verify installation and perform basic troubleshooting of installation.
• Perform job management and monitoring.
• Generate reports.
• Create a Simplified Disaster Recovery disk and use it for disaster recovery.
• Configure product updates.
• Manage devices and media/backup sets.
• Manage licensing.
EXAM AREA 1
Symantec Backup Exec 2014 Architecture, Installation, and Concepts

<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| Describe the components, features, and architecture of Symantec Backup Exec 2014. | Course: Symantec Backup Exec 2014: Install and Configure  
Lesson 1: Backup Exec Fundamentals  
Topics:  
• Symantec’s Backup Exec solution offerings  
• Backup Exec architecture  
Symantec Backup Exec 2014: Administrator's Guide  
Chapters:  
• Introducing Backup Exec  
• Backups  
• Restores  
• Tape storage  
• Reports  
• Simplified Disaster Recovery  
Appendix A: Symantec Backup Exec Agent for Windows |
| Describe the requirements and procedure for licensing, installing, updating, and upgrading Symantec Backup Exec 2014 and Symantec Backup Exec 2014 agents/options. | Course: Symantec Backup Exec 2014: Install and Configure  
Lesson 2: Installing Backup Exec 2014  
Topics:  
• New Installation  
• Typical installation  
• Updating Backup Exec 2014  
• Upgrading to Backup Exec 2014  
Symantec Backup Exec 2014: Administrator's Guide  
Chapters:  
• Introducing Backup Exec 2014  
• Installation  
• Backups  
Appendix D: Symantec Backup Exec Agent for Microsoft Hyper-V  
Symantec Backup Exec 2014 Software Compatibility List |
| Describe how to configure preferences and global settings in Symantec Backup Exec 2014 and analyze the effects of the settings. | Symantec Backup Exec 2014: Administrator's Guide  
Chapters:  
• Installation  
• Restores  
• Job management and monitoring  
• Disk-based and network-based storage  
• Configuration and settings  
• Simplified Disaster Recovery  
Appendix D: Symantec Backup Exec Agent for Microsoft Hyper-V |
<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe how to configure job defaults for different storage device types.</td>
<td>Course: Symantec Backup Exec 2014: Install and Configure</td>
</tr>
<tr>
<td></td>
<td>Lesson 5: Backing up Data</td>
</tr>
<tr>
<td></td>
<td>Topic: Creating Backup Work Flows</td>
</tr>
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<td></td>
<td>Symantec Backup Exec 2014: Administrator's Guide</td>
</tr>
<tr>
<td></td>
<td>Chapters:</td>
</tr>
<tr>
<td></td>
<td>• Backups</td>
</tr>
<tr>
<td></td>
<td>• Tape storage</td>
</tr>
<tr>
<td></td>
<td>• Storage operations</td>
</tr>
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<td>• Configuration and settings</td>
</tr>
</tbody>
</table>

**EXAM AREA 2**

**Managing Devices, Media, and Backup Exec Servers**

<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe how to configure and manage Symantec Backup Exec 2014 devices, device</td>
<td>Course: Symantec Backup Exec 2014: Install and Configure</td>
</tr>
<tr>
<td>drivers, and storage pools.</td>
<td>Lesson 3: Storage Devices</td>
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<td></td>
<td>Topics:</td>
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<tr>
<td></td>
<td>• Configuring storage</td>
</tr>
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<td>• Managing Devices</td>
</tr>
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<td></td>
<td>Symantec Backup Exec 2014: Administrator's Guide</td>
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<td>Chapters:</td>
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<tr>
<td></td>
<td>• Tape storage</td>
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<td></td>
<td>• Backups</td>
</tr>
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<td></td>
<td>• Alerts and notifications</td>
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<td></td>
<td>• Disk-based and network-based storage</td>
</tr>
<tr>
<td></td>
<td>• Introducing Backup Exec 2014</td>
</tr>
<tr>
<td></td>
<td>• Storage device pools</td>
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</tbody>
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| Describe how to manage backup sets and media rotation with media sets.             | Course: Symantec Backup Exec 2014: Install and Configure                       |
|                                                                                  | Lesson 4: Data Management                                                    |
|                                                                                  | Topic: Managing tapes with media sets                                         |
|                                                                                  | Symantec Backup Exec 2014: Administrator's Guide                              |
|                                                                                  | Chapter: Tape storage                                                         |

| Explain how to perform device and media operations and storage operation jobs.     | Course: Symantec Backup Exec 2014: Install and Configure                       |
|                                                                                  | Lesson 4: Data Management                                                    |
|                                                                                  | Topic: Managing tapes with media sets                                         |
|                                                                                  | Symantec Backup Exec 2014: Administrator's Guide                              |
|                                                                                  | Chapter: Tape storage                                                         |

<p>| Describe media catalog concepts, functionality, and implementation.              | Course: Symantec Backup Exec 2014: Install and Configure                       |
|                                                                                  | Lesson 4: Data Management                                                    |
|                                                                                  | Topic: Media catalogs                                                         |</p>
<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
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</thead>
<tbody>
<tr>
<td>Describe how to manage backup sets using Data Lifecycle Management (DLM).</td>
<td>Course: Symantec Backup Exec 2014: Install and Configure</td>
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<tr>
<td></td>
<td>Lesson 4: Data Management</td>
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<td>Topics:</td>
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<tr>
<td></td>
<td>• Managing media</td>
</tr>
<tr>
<td></td>
<td>• Data Lifecycle Management</td>
</tr>
<tr>
<td>Describe how to enable data encryption and manage the keys.</td>
<td>Symantec Backup Exec 2014: Administrator's Guide</td>
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<td></td>
<td>Chapters:</td>
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<td></td>
<td>• Tape storage</td>
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<td></td>
<td>• Restores</td>
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<td>• Configuration and settings</td>
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</table>

**EXAM AREA 3**

**Protecting Data**

<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe the backup methods, settings, logon accounts, stages, and schedules supported by Symantec Backup Exec 2014.</td>
<td>Course: Symantec Backup Exec 2014: Install and Configure</td>
</tr>
<tr>
<td></td>
<td>Lesson 5: Backing Up Data</td>
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<td>Topics:</td>
</tr>
<tr>
<td></td>
<td>• Creating Backup Work Flows</td>
</tr>
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<td></td>
<td>• Accounts and Credentials in Backup Exec</td>
</tr>
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<td></td>
<td>• Adding a Backup Task</td>
</tr>
<tr>
<td></td>
<td>• Backup Settings: Backup Methods</td>
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<tr>
<td></td>
<td>• Backup Settings: Additional Settings</td>
</tr>
<tr>
<td></td>
<td>• Backup Stage</td>
</tr>
<tr>
<td>Describe the procedures and purposes for creating mixed backup jobs.</td>
<td>Symantec Backup Exec 2014: Administrator's Guide</td>
</tr>
<tr>
<td></td>
<td>Chapters:</td>
</tr>
<tr>
<td></td>
<td>• Backups</td>
</tr>
<tr>
<td></td>
<td>• Conversion to virtual machines</td>
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<tr>
<td></td>
<td>• Configuration and settings</td>
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</tbody>
</table>
### SCS Exam Objectives

<table>
<thead>
<tr>
<th>Course Topics</th>
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<tbody>
<tr>
<td>- Job Name</td>
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</tbody>
</table>

*Symantec Backup Exec 2014: Administrator's Guide*  
Chapter: Backups

Describe the procedures and purposes for managing multi-server backup jobs.

*Course: Symantec Backup Exec 2014: Install and Configure*  
Lesson 5: Backing Up Data  
Topics:  
- Multi-server backup definition  
- Server Selections

*Symantec Backup Exec 2014: Administrator's Guide*  
Chapter: Backups

Describe how to protect computers using Simplified Disaster Recovery and convert to virtual options in Symantec Backup Exec 2014.

*Course: Symantec Backup Exec 2014: Install and Configure*  
Lesson 8: Simplified Disaster Recovery  
Topics:  
- Simplified Disaster Recovery fundamentals  
- Simplified Disaster Recovery: Backup  
- Installing the SDR disk creation wizard  
- Creating an SDR disk image (.iso) file

Lesson 9: Virtual Machine Conversion  
Topics:  
- 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  
- Conversion Considerations

*Symantec Backup Exec 2014: Administrator's Guide*  
Chapters:  
- Simplified Disaster Recovery  
- Conversion to virtual machines

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### EXAM AREA 4

**Restoring Data**

<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| Describe different restore methods and the options available to restore data from backups. | *Course: Symantec Backup Exec 2014: Install and Configure*  
Lesson 7: Restoring Data  
Topics:  
- Restore job basics  
- Restore settings  
- Restoring data from single backup set  
- Restoring data from backup job

*Symantec Backup Exec 2014: Administrator's Guide*  
Chapter: Backups
<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- Restoring System State</td>
</tr>
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<td></td>
<td>- Shadow Copy Components</td>
</tr>
</tbody>
</table>

**Course: Symantec Backup Exec 2014: Administrator's Guide**

**Chapters:**
- Restores
- Tape Storage
- Symantec Backup Exec Agent for Microsoft Exchange Server
- Symantec Backup Exec Agent for VMware
- Symantec Backup Exec Agent for Microsoft SQL Server
- Storage operations

**Describe how media catalogs are used in restore operations.**

**Course: Symantec Backup Exec 2014: Install and Configure**

**Lesson 7: Restoring Data**

**Topics:**
- Restoring data from tape
- Restoring data from backup job

**Describe how to recover systems using Simplified Disaster Recovery (SDR) or traditional backups.**

**Course: Symantec Backup Exec 2014: Install and Configure**

**Lesson 7: Restoring Data**

**Topics:**
- Online Disaster Recovery
- Restoring System State
- Shadow Copy Components

**Lesson 8: Simplified Disaster Recovery**

**Topics:**
- Recovering a server with SDR
- Windows Storage Pools and Spaces
- SDR additional options

**Symantec Backup Exec 2014: Administrator's Guide**

**Chapter: Simplified Disaster Recovery**

**Given a scenario, describe how to restore data from multiple backup sets.**

**Course: Symantec Backup Exec 2014: Install and Configure**

**Lesson 7: Restoring Data**

**Topic:** Restoring data from multiple backup sets

**Symantec Backup Exec 2014: Administrator's Guide**

**Chapter:** Restores
EXAM AREA 5
Maintenance Tasks (Monitoring, Troubleshooting, Performance Tuning, and Database Management)

<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| Describe how to monitor Symantec Backup Exec 2014 activity using the Job Monitor and other views. | Course: Symantec Backup Exec 2014: Install and Configure  
Lesson 2: Installing Backup Exec 2014  
Topic: Launching Backup Exec 2014  
Symantec Backup Exec 2014: Administrator's Guide  
Chapters:  
• Backups  
• Job management and monitoring  
• Getting Started |
| Describe how to manage Backup Exec 2014 alerts, error-handling rules, patch management, and notifications. | Course: Symantec Backup Exec 2014: Install and Configure  
Lesson 5: Backing Up Data  
Topic: Backup Settings: Additional Settings  
Symantec Backup Exec 2014: Administrator's Guide  
Chapters:  
• Backups  
• Getting Started |
| Describe the function and maintenance of the Symantec Backup Exec 2014 database. | Symantec Backup Exec 2014: Administrator's Guide  
Chapters: Configuration and settings |
Chapters:  
• Getting Started  
• Tape Storage  
• Backups  
Appendix L: Symantec Backup Exec Central Admin Server Option |
Chapter: Troubleshooting Backup Exec  
Appendix M: Symantec Backup Exec Advanced Disk-based Backup Option |

EXAM AREA 6
Backup Exec Agents and Advanced User Options

<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| Describe the function, uses, and administration of the NDMP (Network Data Management Protocol), and Deduplication options as well as the Backup Exec Command Line Interface. | Course: Symantec Backup Exec 2014: Install and Configure  
Lesson 3: Storage Devices  
Topic: Configuring storage |
<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appendix A: Storage Devices</td>
<td><strong>Course: Symantec Backup Exec 2014: Manage and Administer</strong></td>
</tr>
<tr>
<td>Lesson 8: Deduplication Option</td>
<td><strong>Symantec Backup Exec 2014: Administrator’s Guide</strong></td>
</tr>
<tr>
<td>Appendices:</td>
<td>- B: Symantec Backup Exec Deduplication Option</td>
</tr>
<tr>
<td>- M: Symantec Backup Exec Advanced Disk-based Backup Option</td>
<td></td>
</tr>
</tbody>
</table>

Describe how to protect remote servers using the appropriate Agent for Windows/Linux.

| Describe the general function of Symantec Backup Exec 2014 database agents and virtualization agents. | **Course: Symantec Backup Exec 2014: Manage and Administer** |
| Lesson 1: Remote Agents | **Symantec Backup Exec 2014: Administrator’s Guide** |
| Topics: | - A: Symantec Backup Exec Agent for Windows |
| - J: Symantec Backup Exec Agent for Lotus Domino |
| - K: Symantec Backup Exec Agent for Microsoft Active Directory |
| - O: Symantec Backup Exec Agent for Linux | |

<p>| Describe the general function of Symantec Backup Exec 2014 database agents and virtualization agents. | <strong>Course: Symantec Backup Exec 2014: Manage and Administer</strong> |
| Lesson 2: Agent for Applications and Databases | <strong>Symantec Backup Exec 2014: Administrator’s Guide</strong> |
| Topics: | - C: Symantec Backup Exec Agent for VMware |
| - D: Symantec Backup Exec Agent for Microsoft Hyper-V |
| - E: Symantec Backup Exec Agent for Microsoft SQL Server |
| - F: Symantec Backup Exec Agent for Microsoft Exchange Server |
| - G: Symantec Backup Exec Agent for Microsoft SharePoint |
| - K: Symantec Backup Exec Agent for Microsoft |</p>
<table>
<thead>
<tr>
<th>SCS Exam Objectives</th>
<th>Course Topics</th>
</tr>
</thead>
</table>
| Describe procedures for performing GRT-enabled backups, delayed cataloging and individual item restores. | Course: Symantec Backup Exec 2014: Manage and Administer  
Lesson 3: Agent for Microsoft Exchange Server  
Topics:  
- Backup Settings  
- GRT Browse Restore  
- GRT Search Restore  
- Restore Considerations: GRT  
Lesson 5: Agent for Microsoft SharePoint Server  
Topics:  
- Backing up SharePoint  
- Restoring SharePoint  
Symantec Backup Exec 2014: Administrator's Guide  
Chapter: Configuration and settings |
| Describe how to configure the components of Symantec Backup Exec 2014 Enterprise Server Option (ESO). | Course: Symantec Backup Exec 2014: Install and Configure  
Lesson 1: Backup Exec Fundamentals  
Topics:  
- Symantec's Backup Exec solution offerings  
- Backup Exec architecture  
Lesson 10: Central Admin Server Option  
Topics:  
- 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  
Symantec Backup Exec 2014: Administrator's Guide  
Appendix L: Symantec Backup Exec Central Admin Server Option |

If you have questions about the Symantec Certification Program, send an email to Global_Exams@symantec.com.
About Symantec
Symantec is a global leader in providing security, storage and systems management solutions to help consumers and organizations secure and manage their information-driven world. Our software and services protect against more risks at more points, more completely and efficiently, enabling confidence wherever information is used or stored.

For specific country offices and contact numbers, please visit our Web site.

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