

Course Outline

Veeam Backup & Replication v12: Configure, Manage and Recover Course VMCEv12: 3 days Instructor Led

About this course

The Veeam® Backup & Replication™ v12: Configure, Manage and Recover training course is a three-day technical course focused on teaching IT professionals the skills to configure, manage and support a Veeam Backup & Replication v12 solution. With extensive hands-on labs, the class enables administrators and engineers to effectively protect and manage data in an ever-changing technical and business environment, bringing tangible benefit to business in the digital world.

Audience profile

This course is suitable for anyone responsible for configuring, managing or supporting a Veeam Backup & Replication v12 environment.

At course completion

After completing this course, students will be able to:

- Describe Veeam security concepts
- Given a scenario, configure a backup job and a backup copy job
- Explain network-attached storage (NAS) backups and configuration
- Describe Veeam's replication capabilities
- Determine appropriate use case for backups, replicas and/or continuous data protection
- Configure backup infrastructure components, including proxy and repository servers
- Given a scenario, evaluate when and how to apply immutability settings
- Given a scenario, recover data from backups

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What can be protected?

- Review of Veeam Data Platform and introduction to the class scenario.

Secure your backup server

- Describe strategies and tools to secure the Veeam backup server to avoid unauthorized access and data leaks.

Application consistency with secure authentication

- Achieve application-consistent backups of virtual machines while maintaining operating system secure authentication.

Protecting workloads

- Efficiently protect VMware and Hyper-V virtual machines based on well-defined SLAs through the creation of backup jobs.

Deploying agents

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- Identify the use of protection groups to automate the installation of Veeam Agents and protecting workloads with agent backup jobs.

Protecting NAS

- List required components and features available to protect NAS solutions.

Optimizing your backups

- Analyze features and settings that allow backup storage optimization, faster backups and data consistency.

Immutability

- Describe backup data protection mechanisms to avoid premature deletion and unwanted modifications.

Linux Hardened Repository

- Identify characteristics and deployment steps of Linux Hardened Repositories to achieve backup data immutability.

Object storage repositories

- Describe use cases, advantages and considerations to implement object storage solutions as Veeam backup repositories.

Backup infrastructure optimization

- List deployment options and additional settings to improve general backup solution performance.

Replication

- Describe use cases, architectures and features of replication jobs and continuous data protection (CDP) policies.

Backup copy jobs

- Ensure recoverability and adhere to the 3-2-1 Rule with backup copy jobs.

Long-term retention

- List different mechanisms for data archiving, including grandfather-father-son retention policies.

Scale-out Backup Repository™

- Describe architecture, placement policies, data tiers and management of Scale-out Backup Repositories (SOBRs).

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Move and copy backups with VeeamMover

- Identify use cases for virtual machine and backup migrations with VeeamMover.

Recovery verification

- Create automated tests to ensure recoverability from backups and replicas.

Veeam Backup Enterprise Manager

- Describe the use cases for Veeam Backup Enterprise Manager.

Recovery scenario — Virtual machine failure

- Choose from different methods to recover a virtual machine from the backup.

Recovery scenario — Ransomware attack

- Securely restore a server after a ransomware incident with malware scanning of volumes directly from the backup and as part of the restore process.

Recovery scenario — Agent recovery

- Explore available options to restore data from agent backups.

Recovery scenario — Explorer recovery

- Use Veeam Explorers™ to recover application items directly from image-level backups.

Recovery scenario — Guest file recovery

- Restore guest operating system files directly from image-level backups and from diverse guest file systems.

Recovery scenario — Recovery from replica

- Describe virtual machine states available when recovering a virtual machine from its replica and mechanisms to avoid data loss and interdependent services recovery.

Recovery scenario — Instant NAS recovery

- List steps and considerations to instantly recover an entire file share from its backup.