# *BR418-EN Veeam v12 (VMCE) with Storage-Connection*

**Kurzbeschreibung:**

The course **BR418-EN Veeam v12 (VMCE) with Storage-Connection** includes the contents of **BR410-EN Veeam Backup & Replication v12: Configure, Manage and Recover** and prepares for the Veeam Certified Engineer (VMCE) certification. Additionally, this course provides an in-depth treatment of the course content as well as additional information and exercises on the topic of storage integration with Veeam.

**Zielgruppe:**

- Systems Engineers / Administratoren
- Backup / Virtualization Administrators
- Pre-sales / post-sales staff
- Solution Architects / Consultants

This course is designed for beginners as well as administrators who want to implement the different levels of storage integration.
Integration will be demonstrated using NetApp systems as examples.

**Voraussetzungen:**

Participants of the workshop **BR418-EN Veeam v12 (VMCE) with Storage-Connection** should have experience in the IT sector, especially with virtual infrastructures.

**Sonstiges:**

**Dauer:** 5 Tage

**Preis:** 3950 Euro plus Mwst.

**Ziele:**

In the workshop **BR418-EN Veeam v12 (VMCE) with Storage-Connection** you can prepare for the **Veeam Certified Engineer (VMCE) certification exam**.

After successful completion of the course and the exam, you can call yourself a **"Veeam Certified Engineer (VMCE)"**.

You can take the exam after the course at a Pearson VUE test centre. It consists of 50 questions that have to be answered in 75 minutes. You need a score of at least 70% to pass the exam. You can find detailed information about the exam here.

You can take a trial test here.
For further exercises, the LABS are still available 10 working days after the course.

**Inhalte/Agenda:**

- **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**
  - ◊ 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 storge 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)
- **Move and copy backups with VeeaMover**
  - ◊ Identify use cases for virtual machine and backup migrations with VeeaMover
- **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**
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- 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
- **VMware Storage Integration**
  - Requirements
  - Installation
  - Features (such as Snapshot Orchestration, Snapshot Accelerated Backup Jobs, etc.)
  - Provider comparison

- **Agent storage integration**
  - Requirements
  - Functions
  - Configuration

- **File-Share Backup**
  - Basic installation
  - System preparation
  - Snapshot integration
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