

Veeam Certified Architect (VMCA)

Course Outline

Configuration and Management

Introduction

- Describe RTOs and RPOs, what they mean for your business, how to manage and monitor performance against them
- The 3-2-1 Rule and its importance in formulating a successful backup strategy
- Identify key Veeam Availability Suite components and describe their usage scenarios

Building Backup Capabilities

- Backup methods, the appropriate use cases and impact on underlying file systems
- Create, modify, optimize and delete backup jobs, including NAS Backup jobs. Explore different tools and methods, such as BitLocker and Deduplication, to maximize environment performance
- Global Settings and their usage to prevent production performance bottlenecks, encrypt network traffic data and control network jurisdiction

Restoring from Backup

- Identify and describe the different restore tools and their features. Ensure you have the confidence to use the correct restore tool at the right time
- Using Secure Restore to prevent the restoration of malware
- Disaster recovery from backup, respond accordingly to a variety of real-world recovery scenarios

Backup Copy Jobs

- Simple vs Advanced Backup Copy Jobs, how to create and modify them using best practices to ensure efficient recovery
- Utilizing tape jobs, how to create and modify

Replication

- Identify and describe the options available for replication, the use cases and impacts of using
- Create, modify and delete replication jobs, outline considerations to ensure success

Failover

- Identify and describe in detail, failover features and the appropriate usage
- Develop, prepare and test failover plans to ensure recovery
- Disaster recovery from replica, respond accordingly to a variety of real-world recovery scenarios

Advanced Repository Capabilities

- Ensure efficiency by being able to select appropriate transport modes while being aware of the impact of various backup functions on the infrastructure
- Ensure scalability by integrating off-site S3 storage
- Ensure compatibility with existing deduplication appliances

Testing Backup and Replication

- Testing backups and replicas to ensure you can recover, what you need, when you need to
- Configure Veeam Data Labs and setup sandbox environments based on backup, replicas and storage snapshots
- Using Veeam Data Labs Staged Restore to manage and comply with General Data Protection Regulation (GDPR) legislation before releasing restores to production

Veeam Backup Enterprise Manager

- Manage multiple Veeam Backup & Replication installations from a single web console, maintaining a view of your entire virtual environment, ensuring data protection of ROBO and Enterprise environments.
- Create user and group roles, delegate workloads whilst maintaining data control
- Enable encryption password loss protection, helping to restore encrypted data in case of lost or forgotten encryption passwords

Veeam ONE

- Monitor your Virtual, Physical and Cloud environments with Veeam ONE™ and assess the different views available
- Configure Veeam ONE for your specific technical and business requirements, describe the alarm options available and how to customize their usage

- Set up, use and customize Veeam ONE Reporter, creating the reports and dashboards you require technically and for the business

Support

- Locate, migrate or restore backup configuration
- Identify and locate appropriate support resources
- Troubleshooting methodology to identify, isolate and remediate support issues

Design and Optimization

- Introduction
- Always-On™
- Design and Sizing

Design and Sizing

- DNS and name resolution
- Veeam BackUp Server
- Veeam BackUp Server Database
- Veeam BackUp Server Locations
- Veeam BackUp Server Proxy Sizing
- Transport Modes
- Repository Server
- Estimating Repository Capacity
- WAN Accelerator
- Interaction with Hypervisors

Infrastructure Assessment

- Stages of POC
- Important Data to Collect
- Network and Firewall
- Veeam ONETM

Security

- Permissions
- MS Hyper-V
- VMware vCenter
- App-aware Processing
- MS Active Directory
- MS SQL Server
- MS Exchange
- MS Sharepoint
- Oracle

Optimizations

- Protecting Veeam Backup & Replication Configuration
- Proxy and Repository Servers
- Scale-out Backup Repository
- Deduplication Appliances
- WAN Accelerator
- Tape Server, Drives and Drivers
- Veeam Backup Enterprise Manager
- Indexing
- Anti-Virus on Veeam Servers and Guest VMs

Automation

- Veeam Backup Server
- Silent Updates of Backup Server
- VMware vSphere Tags

Audit and Compliance

- Auditing
- Compliance

- SureBackup and SureReplica

Troubleshooting

- Advanced troubleshooting and diagnostic techniques and methodologies
- Detailed understanding of log files, creation reading and searching
- Troubleshooting mode