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Learning Style: Virtual Classroom

Technology: Citrix

Difficulty: Intermediate

Course Duration: 3 Days

Veeam Backup & Replication v12.1: Architecture and Design

About this Course:

Over the course of three days, attendees will explore the goals of requirement gathering and infrastructure assessment and use that information to design Veeam solutions within team exercises. Attendees will also analyze considerations when

turning conceptual designs into logical designs, make those designs physical and then describe obligations to the implementation team that will implement design. Other topics covered will include security, governance and validation impacts when architecting a Veeam solution and how to build these into the overall design.

Course Objectives:

- Design and architect a Veeam solution in a real-world environment
- Describe best practices, review existing infrastructures, and assess business/project requirements
- Identify relevant infrastructure metrics and perform component (storage, CPU, memory) quantity sizing
- Provide implementation and testing guidelines in line with designs
- Innovatively address design challenges and pain points, matching appropriate Veeam Backup & Replication features with requirements

Audience:

Senior Engineers and Architects responsible for creating architectures for Veeam environments.

Prerequisites:

Completion of this course satisfies the prerequisite for taking the Veeam Certified Architect (VMCA) exam, the highest level of Veeam certification. VMCA certification proves knowledge of architecture and design concepts, highlighting the level of skill required to efficiently architect a Veeam solution in a range of real-world environments.

Course Outline:

Introduction

- Review course expectations
- Analyze architecture principles
- Review Veeam architecture methodology
- Define the scope of a design project
- List the deliverables of a design project

Discovery

- Describe the data gathering process
- List key data to get from stakeholders
- Describe possible tools to analyze existing environments
- Identify complexity in the environment
- Review the course scenario

Conceptual Design

- Clarify requirement, constraint, assumption, and risk concepts
- Identify received information as requirement, constraint, assumption, or risk
- Create high-level infrastructure and data flow diagrams

Logical Design

- List required Veeam components based on requirements
- Describe logical grouping parameters
- Utilize appropriate sizing tools
- Create logical designs based on the course scenario

Physical Design

- Describe the decision making procedure
- List the considerations behind designing backup repositories and VMware backup proxies
- Explain the implications of using backup from storage snapshots
- Document physical design decisions
- Create physical designs based on the course scenario

Group Presentation

- Produce a presentation to a customer that summarizes your design
- Present your design

Implementation and Governance

- Describe the implementation guide
- List possible backup server configurations and security configurations
- Define the job design
- List the architect obligations for implementation

Validation and Iteration

- List the possible validation tests that can be performed on an implementation
- Describe validation tools and procedures
- List recovery validations that can be performed on an implementation
- Define malware detection methods
- Analyze considerations behind starting a new design cycle