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Sign up

VMware vSphere Design Certification Training

3 days (21 hours)

Overview

VMware vSphere Design is an advanced training course dedicated to designing robust, scalable, and secure virtualization architectures.

It covers VMware infrastructure design methodologies to precisely address the business, technical, and operational needs of modern virtualized environments.

Our training will enable you to design a VMware vSphere 8 infrastructure by integrating performance, availability, security, and governance requirements, while taking business and technical constraints into account.

You will learn to identify business objectives, analyze requirements, constraints, assumptions, and risks, and then structure a comprehensive design covering vCenter, ESXi, networking, storage, clusters, and virtual machines.

Upon completion of the training, the trainee will be able to design a VMware vSphere 8 virtual infrastructure.

You will also be able to make decisions regarding management, scalability, capacity planning, and lifecycle management, while ensuring a highly available, high-performance, secure environment that is recoverable in the event of data loss.

Finally, this course prepares you for the Advanced Design vSphere certification.

Like all our courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Create a vSphere environment design based on a case study
- Identify and evaluate the business objectives of the environment
- Identify requirements, constraints, assumptions, and risks for all layers of the system
- Apply a structured design framework
- Analyze design choices for vCenter, ESXi, storage, networking, clusters, and virtual machines
- Make decisions that ensure manageability, scalability, capacity planning, and lifecycle management
- Ensure that the environment is highly available, high-performing, secure, and recoverable in the event of data loss
- Be prepared to take the vSphere Advanced Design certification exam

Target Audience

- System integrators
- Consultants
- Solution architects

Prerequisites

- Have completed the "VMware vSphere - Install, Configure, Manage" or "VMware vSphere - Operate, Scale, and Secure" courses, or possess equivalent knowledge

VMware vSphere Design Training Program

[Day 1 - Morning]

vSphere Design Fundamentals

- Principles of Infrastructure Design
- VMware Design Framework Methodology
- Analysis of Business and Technical Requirements
- Constraints, Risks, and Assumptions
- Introduction to Logical and Physical Design Concepts
- Hands-on Workshop: Analysis of a Customer Case Study and Identification of Requirements.

[Day 1 - Afternoon] vSphere

Logical Architecture

- Defining workloads and requirements
- Cluster and resource design
- Service modeling (HA, DRS, FT)
- Segmentation of environments (Prod, Dev, Test)

- SLA Management and Prioritization
- Hands-on workshop: Creating a complete logical design.

Advanced network design

- Designing vSphere Standard and Distributed Switch networks
- Network segmentation and VLANs
- Network redundancy and high availability
- Securing traffic and isolation
- Network Performance Optimization
- Hands-on Workshop: Designing a Secure Network Architecture.

[Day 2 - Morning] Storage

Design

- Storage types (SAN, NAS, vSAN)
- Datastore design and performance
- Resilience management and replication
- Capacity sizing
- Storage Policies (SPBM)
- Hands-on workshop: Designing an optimized storage architecture.

[Day 2 - Afternoon]

High Availability and Business Continuity Design

- vSphere HA and DRS Architecture
- Fault Tolerance
- Disaster Recovery Strategies
- Recovery Plan and Service Continuity
- Risk Analysis and Failure Scenarios
- Hands-on Workshop: Designing a Continuity Plan

Security and Governance

- vSphere Security Model
- Access and Role Management
- Segmentation and isolation of environments
- Compliance and Auditing
- Governance Best Practices
- Hands-on Workshop: Defining a Security Model.

[Day 3 - Morning]

Physical design and implementation

- Translating the logical design into a physical design
- Host and Cluster Sizing
- Hardware selection and compatibility
- Integration into an existing data center
- Architecture documentation
- Hands-on workshop: Creating a complete physical design.

[Day 3 - Afternoon]

Design validation and optimization

- Architecture validation
- Performance and load testing
- Resource optimization
- Continuous improvement
- Design Review
- Hands-on workshop: Auditing and improving an existing design.

Preparation for the VMware Advanced Design vSphere certification

- Review of key vSphere design concepts
- Methodology for addressing architecture scenarios
- Analysis of requirements and constraints
- Strategies for passing the exam
- Certification-style case study
- Hands-on workshop: Mock exam + review.

Target Audience

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technologies or to acquire specific professional knowledge or modern methods.

Entry-level assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training program.

Training organization registered under number 11 75 54743 75. This registration does not constitute state accreditation.
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