APP

VMWARE VSPHERE: DESIGN [V7]

Course Level:
Professional

Course Duration:
3 Days

Course Overview:

This three-day VMware vSphere: Design [V7] training course from CloudThat teaches candidates how to design a VMware vSphere 7 virtual infrastructure. Candidates attending this course also learn to design a virtualization solution that ensures manageability, availability, recoverability, performance, and security.

By enrolling in our VMware vSphere: Design [V7] training program, learners will acquire the necessary skills and knowledge to pass the final exam successfully. Candidates attending our training get access to the authored curriculum and can learn through engaging and interactive sessions delivered by VMware certified in-house trainers.

Product Alignment

• VMware ESXi 7

• VMware vCenter Server 7

Prerequisites

This course requires completion of the following prerequisites:

 VMware vSphere: Install, Configure, Manage [V7]

 VMware vSphere: Optimize and Scale [V7]

Objectives

- Identify the business objectives for the vSphere environment

- Identify business requirements, constraints, assumptions, and risks for all layers in the vSphere environment

- Apply a framework to a design

- Analyze design choices and best-practice recommendations

- Create a design that ensures availability, manageability, performance, recoverability, and security

- Design the core management infrastructure for an enterprise

- Design the virtual data center for an enterprise

- Design the compute infrastructure for an enterprise

- Design the storage and networking infrastructures for an enterprise

- Design virtual machines to run applications in a vSphere infrastructure

- Design security, manageability, and recoverability features for an enterprise

Course Outline

Module 1: Course Introduction

Topics

- Introductions and course logistics
- Course objectives

Module 2: IInfrastructure Assessment

Topics

- Follow a proven process to design a virtualization solution
- Define customer business objectives
- Gather and analyze business and application requirements
- Document design requirements, constraints, assumptions, and risks

Course Outline

Module 3: Core Management Infrastructure

Topics

- Determine the number of VMware vCenter Server ApplianceTM instances to include in a design
- Choose the appropriate single sign-on identity source
- Choose the time synchronization method
- Choose methods to collect log files and ESXi core dumps
- Design a vCenter Server deployment topology that is appropriate for the size and requirements of the data center

Module 4: Virtual Data Center Infrastructure

Topics

- Calculate total compute capacity requirements for a virtual data center
- Create a virtual data center cluster design that meets business and workload requirements
- Evaluate in the virtual data center the use of several management services, such as VMware vSphere High Availability and VMware vSphere Distributed Resource Scheduler
- Evaluate the use of resource pools in the virtual data center design

Module 5: Compute Infrastructure

Topics

- Create a compute infrastructure design that includes the appropriate ESXi boot, installation, and configuration options
- Choose the ESXi host hardware for the compute infrastructure

Module 6: Storage Infrastructure

Topics

- Calculate storage capacity and performance requirements for a design
- Evaluate the use of different storage platforms and storage management solutions
- Design a storage platform infrastructure and storage management architecture that meets the needs of the vSphere environment

Module 7: Network Infrastructure

Topics

- Evaluate the use of different network component and network management solutions
- Design a network component architecture that includes information about network segmentation and virtual switch types
- Design a network management architecture that meets the needs of the vSphere environment

Module 8: Virtual Machine Design

Topics

- Make virtual machine design decisions, including decisions about resources
- Design virtual machines that meet the needs of the applications in the vSphere environment and follow VMware best practices

Course Outline

Module 9: Infrastructure Security

Topics

- Make security design decisions for various layers in the vSphere environment
- Design a security strategy that meets the needs of the vSphere environment and follows VMware best practices

Module 10: Virtual Data Center Infrastructure

Topics

- Make lifecycle management, scalability, and capacity planning design decisions that adhere to business requirements
- Design lifecycle management, scalability, and capacity planning strategies that meet the needs of the vSphere environment and follow VMware best practices

Module 11: Infrastructure Recoverability

Topics

- Make infrastructure recoverability design decisions that adhere to business requirements
- Design an infrastructure recoverability strategy that meets the needs of the vSphere environment and follows VMware best practices

Who Should Enroll for this Course?

Experienced system integrators and consultants responsible for designing and deploying vSphere environments.

About CloudThat

CloudThat is the first company in India to offer Cloud Training & Consulting services for mid-market & enterprise clients from across the globe. Since our inception in 2012, we have trained over 500K+ IT professionals from fortune 500 companies on technologies such cloud, Artificial Intelligence, Machine Learning, IoT, OpenStack, OpenShift, DevOps, MongoDB, Big Data and more.

Through sheer dedication and excellence in the field of cloud training, CloudThat has recently being recognized as **VMware Authorized Training Reseller**. In addition, CloudThat is a proud Microsoft Gold Partner, AWS Advanced Consulting Partner, Google Cloud Platform Partner, and Databricks Partner. Recently, we have won the Microsoft Asia Superstar Campaign for India-2021 for being a global leader in providing cloud training and consultancy services with exemplary track record.

Our Success Track

10+ Years of Experience	**100+** Corporates served	**28+** countries catered
500K+ Professionals trained	**200+** Projects delivered	**350+** Cloud certifications

To know more about our VMware certification training, email at **sales@cloudthat.com** or call us at **+918880002200.**