VMware Cloud Foundation: Deploy, Configure, Manage [V5.2] Training

Duration: **5 Day**

BILGINÇ IT Academy
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Overview

This 5-day virtual instructor-led {*training} provides in-depth training on deploying, managing, and operating VMware Cloud Foundation (VCF). Designed for IT professionals, the program equips participants with the knowledge to automate SDDC deployments, configure NSX networking, manage workload domains, apply vSAN storage policies, integrate with Aria Suite products, and leverage Private AI Foundation powered by NVIDIA.

Prerequisites

It is recommended that attendees have completed the following or possess equivalent experience:

- VMware vSphere: Install, Configure, Manage
- VMware NSX: Install, Configure, Manage
- VMware vSAN: Install, Configure, Manage

Who Should Attend

- System Architects
- IT Infrastructure Engineers
- Virtualization Administrators
- Data Center Operators
- VMware Professionals

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What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Architect and plan a VMware Cloud Foundation deployment
- Understand the design and purpose of each VCF component
- Execute Day-0 deployment with SDDC Manager
- Configure NSX networking including Edge nodes and Tier-0/1 gateways
- Deploy and scale workload domains based on ESXi clusters
- Apply vSAN-based storage policies for high availability
- Manage system certificates and perform lifecycle operations
- Deploy and manage VMware Aria Suite products
- Utilize Private AI Foundation with NVIDIA for ML/AI workloads
- Troubleshoot workflows and analyze system logs

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Outline

Introduction & Course Goals
Orientation, expectations, and setup.

Architecture & Licensing
Component overview, licensing tiers, and infrastructure overview.

Day-0 Planning & Design
Hardware validation, workbook design, SDDC auto-deployment.

Post-Deployment Setup
Onboarding wizard, credential configuration, password policies.

NSX Network Infrastructure
Logical networks, routing, virtual IPs, Edge designs, multi-NIC architecture.

Workload Domain Operations
Multi-cluster scenarios, SSO domains, network pools, domain expansion.

vSAN Storage Solutions
Storage sizing, deduplication, compression, scaling best practices.

Availability & Business Continuity
Native vSphere HA, backup/restore, stretched cluster deployment.

Security & Certificate Management
CA integrations, CSR generation, certificate issuance.

Lifecycle & Upgrade Management
vSphere Lifecycle Manager, bundle download, firmware patching.

VMware Aria Suite Integration
Installation, configuration, and operational workflows.

Private AI Foundation (NVIDIA)
Architecture and real-world ML/AI use cases in VCF environments.

Troubleshooting Techniques
SoS toolkit, token-based log tracking, service status analysis.