Vmware Cloud Foundation: Solution Architecture and Design

Durée: 5 Jours Réf de cours: VMCFSAD Version: 9.0 Méthodes d'apprentissage: Intra-entreprise & sur-mesure

Résumé:

This five day course explores the architecture and design considerations for an initial deployment of VMware Cloud Foundation (VCF). The course explains the architecture framework and language, as well as design considerations for building, operationalizing, and consuming a VMware Cloud Foundation deployment. The scope of the course is centered on the core design considerations applicable to a VMware Cloud Foundation deployment in a single site.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Public visé:

Technical and Solution Architects and Consultants who design enterprise-grade private cloud environments.

Objectifs pédagogiques:

- **After completing this course you should be able to:**
- Describe and apply an appropriate design framework.
- Apply a design process for gathering requirements, constraints, assumptions and risks.
- Understand VMware VCF constructs such as site, fleet and instance.
- Understand data center fabric needs to support VCF.
- Understand VCF storage and network design options.
- Design a single site single fleet deployment of VCF with recommended design options.
- Design management and workload domains with appropriate compute and storage resources.
- Design a consumption layer leveraging VCF Automation and Supervisor.
- Understand the day-2 operating model, operations metrics, and reporting needs of VCF.
- Understand future opportunities to extend the VCF platform with advanced services.

Pré-requis:

Attendees should meet the following prerequisites:

- VMNSXICM - VMware NSX: Install, Configure, Manage
- VMVSANICM - VMware vSAN: Install, Configure, Manage
- VSICM - VMware vSphere : Installation, Configuration et Administration

Test et certification

Recommended as preparation for the following exam:

- **2V0-13.25 -** VMware Certified Professional - VMware Cloud Foundation Architect

Contenu:

1. Course Introduction

- Introduction and course logistics
- Course Objectives

2. Architecture Frameworks and Models

- Architecture Frameworks
- Business Objectives
- Design Models

3. VMware Cloud Foundation Overview

- VCF Design Blueprints and Use Cases
- Upgrade Overview
- License Management Overview

4. VCF Fleet and Instance Design

- Sites, Fleets and Instances
- Management and Workload Domains
- Designing Conceptual and Logical Designs
- VCF Operations Platform Design

5. Building the Physical Fabric and VCF Networking Design

- Networking Fabric Design
- VCF Networking Design

6. Storage and vSAN Essentials

- VCF Storage Overview
- Storage Design Considerations

7. Management Domain

- Management Domain Design Overview
- Management Domain Design Sizing Considerations
- Management Domain Design Decisions
- Storage Requirements for Management Workloads
- Networking Requirements for Management Workloads
- Platform-Based Protection Mechanisms

8. Workload Domains

- Workload Domain Design Overview
- Cluster Design Overview
- Storage Requirement for Workload Domains
- Networking Requirements for Workload Domains
- Security Design Considerations

9. VCF AMPRS Considerations Summary

- Designing for Availability
- Designing for Manageability
- Designing for Performance
- Designing for Recoverability
- Designing for Security

10. VCF Consumption Design with VCF Automation and Supervisor

- VCF Automation Overview
- VCF Automation Tenancy Models
- VCF Automation and Supervisor Components
- VCF Automation and Supervisor Design Considerations

11. Day 2 Operations with VCF

- Day 2 Operations Overview
- VCF Operations Overview and Metric/Dashboard Design
- VCF Operations Key Metrics for Compute, Storage and Networks
- VCF Operations for Networks Overview and Design

12. VCF Upgrade Considerations

- VCF Upgrade Overview
- VCF Upgrade Key Considerations

13. VCF Advanced Services

- Introduction to Private AI
- Introduction to VMware Live Recovery
- Introduction to Advanced Security

Autres moyens pédagogiques et de suivi:

• Compétence du formateur : Les experts qui animent la formation sont des spécialistes des matières abordées et ont au minimum cinq ans d'expérience d'animation. Nos équipes ont validé à la fois leurs connaissances techniques (certifications le cas échéant) ainsi que leur compétence pédagogique.
• Suivi d'exécution : Une feuille d'émargement par demi-journée de présence est signée par tous les participants et le formateur.
• En fin de formation, le participant est invité à s'auto-évaluer sur l'atteinte des objectifs énoncés, et à répondre à un questionnaire de satisfaction qui sera ensuite étudié par nos équipes pédagogiques en vue de maintenir et d'améliorer la qualité de nos prestations.

Délais d'inscription :

• Vous pouvez vous inscrire sur l'une de nos sessions planifiées en inter-entreprises jusqu'à 5 jours ouvrés avant le début de la formation sous réserve de disponibilité de places et de labs le cas échéant.
• Votre place sera confirmée à la réception d'un devis ou """"booking form""""" signé. Vous recevrez ensuite la convocation et les modalités d'accès en présentiel ou distanciel.
• Attention, si cette formation est éligible au Compte Personnel de Formation, vous devrez respecter un délai minimum et non négociable fixé à 11 jours ouvrés avant le début de la session pour vous inscrire via moncompteformation.gouv.fr.

Accueil des bénéficiaires :

• En cas de handicap : plus d'info sur globalknowledge.fr/handicap