

# Course name: VMware Cloud Automation: Design and Deploy Fast Track [V6.0] (EDU-VCADDFT6)

Course code: CLOUD-CA-FT6-EN

## Introduction

This training course focuses on designing and deploying an enterprise cloud by using a distributed architecture deployment of VMware vRealize® Automation™. The lecture and labs concentrate on designing an enterprise cloud architecture and the effective implementation of a vRealize Automation distributed deployment according to best practices recommended by VMware.

## Participant profile

Experienced system administrators, cloud administrators, system integrators, and deployment consultants.

## Goal description

- VMware vSphere: Install, Configure, Manage [V5.x, 6.x]
- VMware vRealize Automation: Install, Configure, Manage [v5.x, 6.x]
- Or equivalent knowledge
- Course Objectives
- By the end of the course, you should be able to meet the following objectives:
- Understand and apply enterprise design principles
- Design conceptual, logical, and physical designs
- Understand the use of security certificates in asynchronous key exchanges
- Design and deploy a certificate authority and single sign-on architecture to support the enterprise cloud architecture
- Design and deploy a tiered VMware vSphere® resource architecture for CPU, storage, and network resources, including VMware NSX®
- Design and deploy an authority architecture of roles for an enterprise cloud
- Design and deploy a tenant and business group architecture for an enterprise cloud
- Design and deploy standard machines and multimachine templates to support your tenant and business group architecture
- Design and deploy blueprints, services, and entitlements to support your enterprise cloud
- Understand VMware vCloud® Air™ integration and when to use cloud bursting
- Understand VMware vRealize® Business™ cost structure design and integration with vRealize Automation
- Understand the location and identity of all log files that relate to vRealize Automation troubleshooting

## Course duration and form

- 35 hours (5 days x 7 hours), including lectures and exercises.

## Course plan

1. Course Introduction
  - a. Introductions and course logistics
  - b. Course outline
  - c. Course goals
  - d. Course objectives
2. Design Principles
  - a. Create a design foundation for an enterprise cloud by identifying business requirements, typical business solutions, constraints, assumptions, and risks
  - b. Create a conceptual design for an enterprise cloud
  - c. Create a logical design for an enterprise cloud
  - d. Use key enterprise design principles to create a vSphere infrastructure for your enterprise cloud
3. Security Infrastructure
  - a. Design a certificate authority architecture
  - b. Create certificate signing requests for your vRealize Automation servers
  - c. Create certificates for your vRealize Automation servers
4. vRealize Automation Distributed Architecture
  - a. Design and deploy the vRealize Automation solution, including the related systems of vRealize Orchestrator and a single sign-on system, in a highly available, distributed architecture
5. Authority Role Architecture
  - a. Design either an expanded authority role architecture or a compressed authority role architecture for an enterprise cloud
6. Tenants and Business Groups
  - a. Design an optimum tenant and business group architecture for your enterprise cloud by using either a single tenant or a multitenant model
7. Enterprise Design
  - a. Design an enterprise cloud that is based on a multitiered architecture
  - b. Design vRealize Automation systems to provision requests for an enterprise cloud
  - c. Design naming standards in vRealize Automation to support your tenant and business group architecture
  - d. Deploy machine prefixes to support your naming standard
  - e. Design an enterprise cloud with extensibility
  - f. Manage your enterprise cloud