

VMware Telco Cloud Platform: Install, Configure, Manage

Course Overview

This three-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware Telco Cloud Platform™ environment. In this course, you are introduced to the VMware Telco Cloud Platform infrastructure, deployment options, and procedures. You also deploy Kubernetes clusters and understand the detailed configuration settings of management and workload clusters. You onboard and instantiate network functions and network services using hands-on lab exercises.

In addition, you are presented with various types of technical problems in VMware Telco Cloud Platform, which you will identify, analyze, and solve through a systematic troubleshooting process.

Course Objectives

By the end of the course, you should be able to meet the following objectives:

- List VMware Telco Cloud Platform layered architecture and deployment procedures
- Describe the VMware Telco Cloud Platform virtual infrastructure requirements
- List the use cases of VMware vSphere® and VMware vCenter Server®
- Describe the VMware Telco Cloud Platform networking and storage requirements
- Describe the architecture of VMware Tanzu™ Standard for Telco
- Configure management and workload clusters for containers as a service functionality
- Instantiate network services and network functions
- Enumerate troubleshooting concepts and Day 2 operations for VMware Telco Cloud Platform

Target Audience

- Telco cloud system administrators and telco network operations engineers
- Professionals who work with telco or enterprise and datacenter networks
- Designers and operations engineers who manage telco workloads

Prerequisites

Before taking this course, you should have completed the [Telco Cloud Automation Fundamentals](#) and [Telco Cloud Platform Fundamentals](#) courses.

You should also have the following understanding or knowledge:

- Good understanding of VMware products like vSphere, VMware NSX®, VMware vSAN™, VMware Tanzu™ Kubernetes Grid™, and VMware vCloud Director®

- Knowledge of and working experience with network functions virtualization, including:
 - ETSI NFV framework, virtualized network functions, and related Interfaces
 - Kubernetes, Helm, cloud-native network functions, CSI, and CNI

Course Delivery Options

- Classroom
- Live Online
- [Private Training](#)
- [On Demand](#)

Product Alignment

- VMware Telco Cloud Platform 5G Edition [2.0]

Course Modules

1 Course Introduction

- Introduction and course logistics
- Course objectives

2 VMware Telco Cloud Platform Overview

- Describe the architecture of VMware Telco Cloud Platform
- Describe the key functions of VMware Telco Cloud Platform
- List the benefits of VMware Telco Cloud Platform
- Describe the VMware Telco Cloud Automation architecture
- Describe the VMware Telco Cloud Automation control plane architecture
- List VMware Telco Cloud Automation deployment options
- Describe the vSphere architecture
- List the key VMware components that are part of vSphere
- Describe the key use cases for vSphere

3 VMware Telco Cloud Platform Infrastructure

- Describe the key capabilities of vSphere and vCenter Server
- List the use cases of vSphere and vCenter Server
- Describe the requirements for infrastructure
- Describe the process of deploying VMs
- List the benefits of VM templates and libraries
- List the requirements of VMware Telco Cloud Platform on vSphere
- Describe the networking options of vSphere
- Describe the key networking use cases
- Describe requirements of VMware Telco Cloud Platform for networking
- Describe the storage options of vSphere
- Describe the key storage use cases
- Describe requirements of VMware Telco Cloud Platform for storage

4 Tanzu Kubernetes Grid and Supporting Containers as a Service

- Describe the role of containers in VMware Telco Cloud Platform

- Describe the benefits and challenges of containers
- List the various container use cases
- Describe the Kubernetes architecture
- List the role of nodes and clusters
- Describe the supporting components of Kubernetes
- Describe Kubernetes compared to Tanzu Kubernetes Grid
- List the key features of Tanzu Kubernetes Grid
- Describe the architecture of Tanzu Kubernetes Grid
- List the steps to integrate a container-based virtual infrastructure
- Describe supporting technologies like Cluster API
- Describe key concepts like late binding

5 Supporting Virtualized Network Functions

- Describe the types of network functions
- List the type of descriptors
- Describe the requirements of a VNF descriptor
- Describe the key vSphere operations for VNFs
- Describe the key VNF use cases
- List the role of vSphere in VNF instantiation
- Outline VM onboarding requirements
- Describe the VNF requirements for onboarding
- List the steps to onboard a VNF
- Describe VNF life cycle management
- Describe key life cycle management operations

6 Supporting Cloud-native Network Functions

- Describe the special requirements of containers on network functions
- List the type of descriptors for containers
- Describe the requirements of a CNF descriptor
- Describe the role of Harbor
- Explain how to list the contents of a Harbor platform
- List the steps to interface with a Harbor platform
- Describe container onboarding requirements for Harbor
- Describe the CNF requirements for onboarding
- List the steps to onboard a CNF
- Describe CNF life cycle management
- Describe key life cycle management operations



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7 VMware Telco Cloud Platform Troubleshooting

- Identify the features of the VMware Telco Cloud Platform dashboards
- List the components of the VMware Telco Cloud Platform dashboards
- Explain the features of fault management in VMware Telco Cloud Platform
- Describe the use of fault management in VMware Telco Cloud Platform for network functions
- Describe the use of performance management in VMware Telco Cloud Platform for network functions
- Describe the use of logs in VMware Telco Cloud Platform
- Troubleshoot using VMware Telco Cloud Platform logs
- List the key CLI tools that can be used for Troubleshooting
- List the steps to identify common network function deployment problems
- Examine key troubleshooting scenarios

Contact

If you have questions or need help registering for this course, click [here](#).



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