

VMware Telco Cloud: Day 2

Operate and Scale

Course Overview

This five-day, hands-on training course provides the knowledge to operate and scale VMware Telco Cloud version 2.x products in a Telco cloud provider environment. In this course, you are exposed to the entire VMware Telco Cloud portfolio, and the tools and methodologies available to ensure they operate effectively. In addition, you are presented with various scenarios where you will be guided through the process of identifying, analyzing, and formulating solutions to performance and other problems.

Course Objectives

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

- List the operational challenges for rolling out and operating telco services including 5G
- Describe the role of the ETSI NFV architectural framework in delivering network functions
- Identify the role of VMware Telco Cloud products in supporting telco services
- Discuss the role of VMware technologies such as vSphere, NSX, and Tanzu etc. in implementing telco services
- Outline the role of native tools and other VMware monitoring tools such as VMware vRealize Operations™, VMware vRealize Network Insight, and VMware vRealize Log Insight in maintaining network services
- Choose the VMware Telco Cloud products that meet your application requirements
- Deploy a solution architecture that meet best practices for delivering services using VMware Telco Cloud products
- Implement and maintain VMware Telco Cloud products in a secure manner
- Identify the tools and remediation pathways for maintaining the availability and performance of your applications and infrastructure using VMware Telco Cloud and vRealize Suite products
- Scale your VMware Telco Cloud products to meet operational requirements in line with VMware best practices
- Optimize the operation of VMware Telco Cloud products to ensure SLAs are met

Target Audience

- Experienced system administrators and network administrators
- Customers, cloud architects, systems engineers, data center administrators
- Network administrators with experience in managed services or managing a VMware Telco Cloud environment

Prerequisites

Before taking this course, you must complete at least one of the following courses:

- [VMware Telco Cloud Automation: Install, Configure, Manage \[V1.8\]](#)
- [VMware Telco Cloud Service Assurance: Install, Configure, Manage \[V2.0\]](#)
- [VMware Telco Cloud Infrastructure: Install, Configure, Manage \[V2.0\]](#)
- [VMware Telco Cloud Platform: Install, Configure, Manage \[V2.0\]](#)

You should also have understanding or knowledge of these technologies:

- Good understanding of TCP/IP services and protocols
- Substantial knowledge of containers and VMware Tanzu Kubernetes Grid
- Experience with working at the Linux command line

Course Delivery Options

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

Product Alignment

- VMware Telco Cloud Automation [V2.1]
- VMware Telco Cloud Service Assurance [V2.1]
- VMware Telco Cloud Infrastructure [V2.2]
- VMware Telco Cloud Platform [V2.2]

Course Modules

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 Overview of Network Transformation

- Reviews the technologies that enable modern service provider networks
- Outlines characteristics of modern service provider networks in meeting customer application needs
- Reviews ETSI NFV architectural framework
- Describes network function management and how they are packaged

3 Service Delivery with VMware Telco Cloud

- Outlines the components of the VMware Telco Cloud portfolio
- Reviews the role each VMware Telco Cloud product plays in delivering telco services
- Specifies the dependencies each product has on underlying technologies

4 Supporting Service Delivery with VMware Telco Cloud

- Reviews the products that implements the virtualization, management, platform, and orchestration layers
- Outlines the role played by other VMware products such as NSX in delivering cloud services
- Outlines opensource integration options with VMware Telco Cloud products

5 Securing VMware Telco Cloud

- Reviews security threats that affect telco services
- Identifies the critical telco assets that are prone to exploitation
- Outlines best practice for securing VMware Telco Cloud products and underlying technology
- Provides overview of appropriate security controls for VMware Telco Cloud products

6 Service Provisioning with VMware Telco Cloud

- Reviews tools and methodologies used to gather requirements for
- Outlines how to assess cloud-native capabilities
- Specifies how to document findings
- Lists security vulnerabilities with Helm.
- Reviews VMware's Customer Engagement process
- Outlines capture of infrastructure requirements from TCA

7 Designing a VMware Telco Cloud Solution

- Describes appropriate deployment topologies
- Contrasts pros and cons of design choices
 - Identifies how a design choice might be affected by other factors such as NSX and TKG deployment, or data center architecture
 - Outlines typical scenarios where specific products align with identified requirements
 - Reviews designing for availability
 - Explains how to create a design aligns with best practice
 - Specifies monitoring options

8 Implementing VMware Telco Cloud Products

- Reviews deployment options for VMware products
- Reviews integration of new products with existing ones
- Specifies post-installation tasks
- Provides overview of monitoring tools such as vRealize Operations and vRealize Operations Network Insight
- Outlines addition of new products as data sources in monitoring tools

9 VMware Telco Cloud Maintenance

- Outlines typical administrative tasks in ensuring services are maintained
- Reviews native and other VMware performance monitoring tools
- Specifies how to enable and Manage network slices using VMware Telco Cloud Automation
- Provides overview of workload lifecycle management



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10 VMware Telco Cloud Troubleshooting

- Reviews the troubleshooting tools available
- Outlines use of tools to gather useful data
- Outlines how event correlation can be used to isolate problems
- Specifies a methodology to determine the root cause of a problem
- Outlines steps to identify and resolve a problem
- Reviews scenarios where known problems are isolated and resolution steps identified

11 Scaling VMware Telco Cloud Products

- Outlines how to assess if operations are impacted by lack of resources now or in the future
- Reviews performance optimization options
- Identifies implications for other products if you scale VMware Telco Cloud products
- Reviews VMware sizing guidelines

Contact

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



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