

# VMWA-21 - VMWARE SD-WAN FOR SERVICE PROVIDERS [V4.X]

Categoria: **VMware**

## INFORMAZIONI SUL CORSO



**Durata:**  
3 Giorni



**Categoria:**  
VMware



**Qualifica Istruttore:**  
VMware Certified  
Instructor



**Dedicato a:**  
Professionista IT



**Produttore:**  
VMware

## OBIETTIVI

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

- Describe how VMware SASE™ solves security challenges for distributed enterprises
- Identify where VMware SD-WAN fits in the VMware SASE framework
- Describe the process for validating the installation of VMware SD-WAN Orchestrator and Gateway in a service provider environment
- Describe the features for monitoring and maintaining a VMware SD-WAN installation
- Evaluate the security features and certificate operations for managing a VMware SD-WAN installation
- Describe VMware SD-WAN Edge licensing and license types
- Describe the features of VMware Edge Network Intelligence™
- Recognize VMware SD-WAN network monitoring tools for generating reports, events, and alerts
- Recognize the remote diagnostic actions available on VMware SD-WAN Orchestrator
- Troubleshoot VMware SD-WAN Orchestrator and Gateway common issues

## PREREQUISITI

Before taking this course, you should have completed the following course:

- VMware SD-WAN: Deploy and Manage

You should also have the following understanding or knowledge:

- Good understanding of SD-WAN architectures
- Experience of operating Linux servers, especially Ubuntu
- Knowledge and working experience of computer networking
- Experience with routing and switching technologies
- Experience with security solutions, including VPN technologies

The VMware SD-WAN VTSP accreditation is recommended.

## CONTENUTI

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

## **2 VMware SD-WAN Installation for Service Providers**

- Describe security challenges for distributed enterprises
- Describe the VMware SASE solution for securing distributed enterprises
- Describe VMware deployment models for service providers
- Explain how VMware SD-WAN can help to transform MPLS networks to service-ready networks
- Identify resource requirements for installing VMware SD-WAN Orchestrator and Gateways
- Describe the procedure for installing VMware SD-WAN Orchestrator
- Describe the process for provisioning VMware SD-WAN Orchestrator
- Identify the external service dependencies for VMware SD-WAN Orchestrator
- Recognize disaster recovery options for SD-WAN Orchestrator
- Describe the disaster recovery workflow for VMware SD-WAN Orchestrator
- Identify the requirements for installing VMware SD-WAN Gateway instances
- Describe the procedure for installing VMware SD-WAN Gateway instances
- Describe the procedure for installing VMware SD-WAN Gateway instances on ESXi hosts
- Identify Data Plane Development Kit support for gateway performance
- Describe the VMware SD-WAN Gateway deployment modes for service providers
- Configure a VMware SD-WAN Gateway for a service provider
- Assign a VMware SD-WAN Gateway for a service provider

## **3 VMware SD-WAN Monitoring and Maintenance**

- Describe VMware SD-WAN Orchestrator system health-monitoring features
- Describe VMware SD-WAN Orchestrator process-monitoring features
- Describe VMware SD-WAN Orchestrator storage-monitoring features
- Describe VMware SD-WAN Orchestrator database-monitoring features
- Describe the VMware SD-WAN Orchestrator upgrade process
- Describe the VMware SD-WAN Orchestrator backup and data archival processes
- Describe the VMware SD-WAN Orchestrator process to expand database disks
- Describe the VMware SD-WAN Orchestrator system metrics for monitoring
- Describe how systems metrics are collected for monitoring VMware SD-WAN Orchestrator
- Describe VMware SD-WAN Gateway additions and removals
- Describe the VMware SD-WAN Gateway upgrade process
- Describe the VMware SD-WAN Gateway validation process

## **4 VMware SD-WAN Security and Edge Licensing**

- Describe the VMware SD-WAN PKI security infrastructure
- Recognize VMware SD-WAN PKI authentication modes
- Describe VMware SD-WAN certificate operations
- Describe the VMware SD-WAN PKI certificate authentication configuration
- Describe the VMware SD-WAN PKI configuration process
- Compare operator and partner logins
- Describe the VMware SD-WAN self-signed certificate authority process
- Describe VMware SD-WAN certificate authority renewal and revocation
- Describe the VMware SD-WAN intermediate certificate authority
- Describe the VMware SD-WAN certificate chain of trust
- Describe the VMware SD-WAN Edge licensing and license types
- Assign and view the VMware SD-WAN Edge licenses and reports

## **5 VMware SD-WAN Reporting and Diagnostics**

- Describe the VMware SD-WAN network monitoring tools
- Describe the VMware SD-WAN network visibility options and controls
- Identify the VMware SD-WAN Orchestrator reporting features
- Describe and analyze VMware SD-WAN Orchestrator events
- View enterprise reports by operator, partner, and administrator
- View historical network insights and real-time reports on path visibility
- Describe common VMware SD-WAN alerts
- Describe the VMware SD-WAN heart mechanism for alerts
- Configure VMware SD-WAN alerts
- Analyze common VMware SD-WAN alerts
- Use standard networking tools for monitoring VMware SD-WAN
- Describe remote diagnostic actions available on VMware SD-WAN Orchestrator
- Use the remote diagnostics tools on VMware SD-WAN Orchestrator
- Generate remote diagnostics bundles and packet captures

## 6 VMware SD-WAN Orchestrator and Gateway Troubleshooting

- Recognize the basic sanity checks to troubleshoot VMware SD-WAN Orchestrator
- Create diagnostic bundles to enable support to troubleshoot VMware SD-WAN Orchestrator
- Recognize the basic checks to troubleshoot VMware SD-WAN Orchestrator
- Troubleshoot common VMware SD-WAN Orchestrator performance issues
- Describe the tools available to troubleshoot VMware SD-WAN Gateway
- Analyze sample outputs for debugging a VMware SD-WAN Gateway issue
- Use Data Plane Development Kit to improve VMware SD-WAN Gateway performance

## 7 VMware SD-WAN Orchestrator and Gateway Commands

- Recognize when and how to use VMware SD-WAN Orchestrator database-monitoring commands
- Recognize when and how to use the VMware SD-WAN Gateway process-monitoring commands

## INFO

**Materiale didattico:** Materiale didattico ufficiale VMware in formato digitale

**Costo materiale didattico:** incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)