

NSE 7 Private Cloud Course

Course Duration: 16 Hrs.

Course Code: NSE7-PC-101

Course Overview

The **NSE 7 Private Cloud** course is designed for network and security professionals responsible for deploying and securing private cloud environments. This advanced course focuses on the configuration, management, and protection of virtualized infrastructure using Fortinet solutions. Participants will gain hands-on experience in securing workloads, implementing cloud policies, monitoring performance, and integrating Fortinet security tools to protect private cloud infrastructures while preparing for the NSE 7 Private Cloud certification.

What You'll Learn?

By completing this course, you will be able to:

- Understand private cloud architecture and deployment models
- Secure virtual machines, containers, and workloads in a private cloud
- Configure identity and access management in virtualized environments
- Implement network segmentation, firewall policies, and security controls
- Monitor and analyze cloud traffic and security events
- Troubleshoot performance and security issues in private cloud environments
- Apply best practices for compliance, governance, and operational efficiency

Target Audience

This course is ideal for:

- Cloud Security Engineers and Architects
- Network and Security Administrators managing private clouds
- SOC Analysts monitoring virtualized environments
- IT and DevOps professionals responsible for private cloud operations
- Professionals preparing for the NSE 7 Private Cloud certification

Pre-Requisites

Participants should have:

- Solid understanding of networking and virtualization concepts
- Experience with private cloud platforms (VMware, OpenStack, Hyper-V) is recommended
- Familiarity with Fortinet products or NSE 4-level knowledge
- Basic knowledge of identity management, security policies, and compliance frameworks

Course Content

Module 1: Introduction to Private Cloud Security

- Overview of private cloud architectures
- Security challenges in virtualized environments
- Fortinet solutions for private cloud security

Module 2: Identity and Access Management

- Implementing RBAC in private cloud

- Multi-factor authentication and user policies
- Managing administrative and user access

Module 3: Securing Virtualized Workloads

- Firewall policies and segmentation for VMs and containers
- Data protection and encryption
- Endpoint security and agent integration

Module 4: Network Security in Private Clouds

- Virtual network configuration and monitoring
- Integration with FortiGate and Security Fabric
- Secure connectivity between on-premises and cloud environments

Module 5: Monitoring, Analytics, and Threat Detection

- Logging, event correlation, and alerting
- Advanced analytics using FortiAnalyzer
- Threat detection and incident response

Module 6: Compliance, Governance, and Best Practices

- Regulatory compliance in private clouds
- Security frameworks and operational guidelines
- Best practices for deployment, management, and monitoring