

## Cisco Secure Workload (Tetration) Overview and Course Agenda

## Why OneCloud?

Course Type:

Instructor Led Training, Classroom with Hands on Lab

Course ID: TET0218

**Duration:** 2 Day

OneCloud Consulting is dedicated to providing exceptional technical education and professional services. Our team of experts combine skill, knowledge, and experience in providing quality education on Cloud Transformation, Infrastructure Automation, and Software Development. Our specializations include Cloud Services, Network and Services Automation, Data Center Solution Design and Deployment Services, and Technical Strategy.

### **Course Description**

This course provides an overview of the Cisco Secure Workload (Tetration) platform. Secure Workload addresses important data center operational and security challenges by providing behavior-based application insight, automating policy generation, and enabling zero-trust deployment using application segmentation. The goal of this course is to understand how Secure Workload works and how it can be used to address these challenges comprehensively, using rich traffic telemetry. This course will also include hands-on labs in which you will be configuring and administer Secure Workload Platform.

After this course you should be able to understand:

- Secure Workload Platform Overview, Use Cases, and Business Drivers
- Machine Learning Concepts
- Tetration Architecture and Concepts
- Software & Hardware Sensors
- Scopes & RBAC Definitions
- Tetration Use Cases Deep Dive
  - Applications Insights and Dependency
  - Automated Whitelist Policy Generation
  - Automated Policy Enforcement

### Who Should Attend

- Data Center Architects
- Solution Architects
- Network Engineers
- Systems Engineers
- System Administrators
- Storage Administrators
- Systems Integrators
- Applications Owners
- DevOps & Cloud Engineers

- Policy Simulation and Assessment
- Policy Compliance & Auditability
- Forensics & Visibility
- Tetration Ecosystem/Integration
- Policy Deployment with Cisco ACI
- Tetration Open Access; Rest API, Kafka, and Tetration Apps

### Prerequisites

- Understanding of Linux Operating
  System Administration
- Familiarity with Basic Network Concepts (TCP/IP, Layer 2 and Layer 3 networking)
- Familiarity with Server
  Virtualization
- Familiarity with Firewall and Load Balancer Principles
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## **Course Content**

#### Module 1: Introduction

- DC Story in action
- The cost of "invisibility"
- Value proposition of Tetration

#### Module 2: Data Center Analytics

- Introductng Tetration Analytics Platform
- Today's challanges
- What probelms are we solving?

## Module 3: Secure Workload Overview & Architecture

- Tetration Overview
- Machine Learning
- Tetration Analytics Architecture
- Multiple Sensors & Data Sources
- Hardware & Software Sensors
- Pervasive Sensor Framework

#### Module 4: Scopes & RBAC

- How Scopes are Definined
- Scopes & Hierarchical
- RBAC Model

#### Module 5: Real-time Asset Tagging

- Introdution to Asset Tagging
- Annocation Concepts & Use Cases
- User Defined Asset Tags

#### Module 6: Application Insights & Dependency

- ADM Overview
- Visualize Application & Resources
- Identify Application Performance Issues
- Import 3rd Party Application Configurations
- Whitelist Policy Creation

#### Module 7: Automated Whitelist Policy Generation

- Export Policies in XML/JSON/YAML
- Export to ACI,AWS Security groups,other SDN
- Policy & Whitelist Creation

## Secure Workload Overview and Course Agenda

# Module 8: Policy Simulation & Assessment

- Auto-Generate Whitelist Poicies
- Perform Impact Analysis on Policies
- Apply Policies with zero risk

#### Module 9: Policy Compliance & Auditability

- Baseline & Policy Comparison
- Compliance Audit

#### Module 10: Forensics & Visibility

- Compliance Auditing
- Baseline and Policy comparision

# Module 11: Tetration Ecosystem & Integration

Ecosystem Partners

#### Module 12: ACI Integration

- Policy Deployment with Cisco ACI
- ConfigPush

#### Module 13: Tetration Open Access

- Rest API
- Kafka a Distributed Streaming Platform
- Tetration Apps

#### Module 14: Tetration Analytics Platform Review

- Why Tetration was created
- Problems Tetration is solving
  - Q&A

#### Labs:

- 1. Accessing the Secure Workload UI and OpenCart Application
- 2. Automatically Discover Policies using Application Dependency Mapping
- 3. Viewing and Understanding the Policy
- 4. Policy Analysis and Policy Enforcement
- 5. Advanced Workload Security Dashboard and Forensics
- 6. Installing a Secure Workload Agent

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