

COURSE OVERVIEW:

In this two-day course, Introduction to Cisco Tetration Analytics™ Operations and Administration, (TETOPS) v1.0 will familiarize you and help you understand how The Cisco Tetration Analytics™ platform enables efficient datacenter operations by providing pervasive visibility, behavior-based application insight and migration to a zero-trust model.

WHO SHOULD ATTEND

The primary audience for this course is as follows:

- Channel Partners
- Systems Architects
- Network Architects
- Network Engineers
- Systems Engineers
- Administrators

PREREQUISITES:

The knowledge and skills that a learner should have before attending this course are as follows:

- Familiarity with Data Center Technology
- Familiarity with Network operation
- Understanding of basic network security

COURSE OBJECTIVES:

Upon completing this course, the learner will be able to understand how Cisco Tetration Analytics™:

- Enables pervasive visibility of traffic across datacenter infrastructure
- Uses long term data retention for forensics and analysis
- Creates communication and dependencies for all applications within the datacenter
- Empowers companies to get to a whitelist policy model
- Identifies behavior deviation in real time



- Performs forensics operations

COURSE OUTLINE

Module 1: Tetration Overview

- Defining and Positioning Cisco Tetration Analytics
- Telemetry
- Platform
- Intent-Based Policy
- Machine Learning
- Network Performance Monitoring and other Use Cases

Module 2: Tetration Components

- Architecture
- Data Collection
- Sensors and Agents
- Flow Collectors
- Analytics Engine
- Open Access

Module 3: Operational Concepts

- Scopes
- Tenants
- RBAC
- Annotations

Module 4: Tetration Setup and Deployment Models

- On Premise Options
- SaaS
- Tetration-V
- Installation Procedure
- Creating Scopes, Roles, and Users
- Deploy Hardware Sensors
- Deploy NetFlow Sensors

Introduction to Cisco Tetration Analytics™ Operations & Administration (TETOPS) 1.0

- Deploy ERSPAN Sensors

Module 5: Software Agents

- Software Agents Overview
- Software Agents Features
- Software Agents Configuration

Module 6: Application Dependency Mapping

- Why ADM?
- Tetration Application Insight
- ADM Process
- ADM Run Results

Module 7: Cisco Tetration Analytics Policy Enforcement Overview

Module 8: Cisco Tetration Flow Search

- Results Filtered by Scope
- Searching with Conjunctions
- Flow Explore Integrated
- User Annotations

Module 9: Tetration Policy Analysis

- Enable Policy Analysis
- Live Policy Analysis
- Backdated Policy Experiments
- Quick Policy Analysis

Module 10: Tetration Apps and API

- App Store
- User Apps
- Visualize Data Sources
- Bring your own Data
- OpenAPI

Module 11: Tetration Ecosystem

- Platform Integrations
 - ADCs
 - FW Management Tools
 - Phantom
 - InfoBlox
 - ServiceNow
 - Splunk
 - Turbonomic
 - Veeam
- Corvil and Extra Hop

LAB OUTLINE:

- Lab 1: Exploring the GUI
- Lab 2: Software Agent Installation
- Lab 3: Application Dependency Mapping with Agents
- Lab 4: Enforcement
- Lab 5: Flow Search
- Lab 6: Advanced ADM Run
- Lab 7: Policy Analysis