

**DCITET****Implementing Cisco Tetration Analytics**

24 horas

Data Center &amp; Cloud

Cisco

**INTRODUÇÃO**

The Implementing Cisco Tetration Analytics (DCITET) course shows you how to deploy, use, and operate Cisco® Tetration Analytics™ platform for comprehensive workload-protection and application and network insights across a multicloud infrastructure. Through expert instruction, use cases, and hands-on labs, you will learn how the Cisco Tetration Analytics platform uses streaming telemetry, behavioral analysis, unsupervised machine learning, analytical intelligence, and big data analytics to deliver pervasive visibility, automated intent-based policy, workload protection, and performance management. You will get hands-on practice in software agent installation, implementing policy, workload security, administration and operational tasks, and more.

Cisco Tetration offers holistic workload protection for multicloud data centers by enabling a zero-trust model using segmentation. This approach allows you to identify security incidents faster, contain lateral movement, and reduce your attack surface.

This course will help you:

- Learn how to implement and use the Cisco Tetration platform to address data center security challenges and provide secure infrastructure for workload protection;
- Learn how Cisco Tetration Analytics integrates into the intent-based network management automation infrastructure using application security policy and other network policies;
- Learn how the Cisco Tetration big data platform analyses data using unsupervised machine learning and behavior analysis to support application, network, and security use cases;
- Gain knowledge and skills through Cisco's unique combination of lessons and hands-on practice using enterprise-grade Cisco learning technologies, data center equipment, and software;
- Succeed in today's demanding data center operations roles.

## OBJETIVO DO CURSO

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After taking this course, you should be able to:

- Define the Cisco telemetry and analytics approach. Explore common scenarios that Cisco Tetration Analytics can solve.
- Describe how the Cisco Tetration Analytics platform collects telemetry and other context information;
- Discuss how relative agents are installed and configured;
- Explore the operational aspects of the Cisco Tetration Analytics platform;
- Describe the Cisco Tetration Analytics support for application visibility or application insight based on the Application Dependency Mapping (ADM) feature;
- List the concepts of the intent-based declarative network management automation model;
- Describe the Cisco Tetration policy enforcement pipeline, components, functions, and implementation of application policy;
- Describe how to use Cisco Tetration Analytics for workload protection in order to provide a secure infrastructure for business-critical applications and data;
- Describe Cisco Tetration Analytics platform use cases in the modern heterogeneous, multicloud data center;
- List the options for the Cisco Tetration Analytics platform enhancements;
- Explain how to perform the Cisco Tetration Analytics administration.

## PÚBLICO-ALVO

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Professionals interested in knowing and implementing solutions using the Cisco Tetration Analytics.

## PRÉ-REQUISITOS

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To fully benefit from this course, you should have the following knowledge and skills:

- Knowledge of cloud and (virtual) data center architecture or cloud basic networking concepts;
- Familiarity with Cisco basic networking security concepts and application security concepts;
- Familiarity with basic Cisco telemetry protocols and Big Data analytics;
- Familiarity with basic Cisco data analytics pipelines, intelligent algorithms, tools, and concepts.

## Course Introduction

Course Outline

Course Objectives & Goals

## Exploring Cisco Tetration

Data Center Challenges

Define and Position Cisco Tetration

Cisco Tetration Features

Cisco Tetration Architecture

Cisco Tetration Deployment Models

Cisco Tetration GUI Overview

## Implementing and Operating Cisco Tetration

Explore Data Collection

Install the Software Agent

Install the Hardware Agent

Import Context Data

Describe Cisco Tetration Operational Concepts

## Examining Cisco Tetration ADM and Application Insight

Describe Cisco Tetration Application Insight

Perform ADM

Interpret ADM Results Application Visibility

## Examining Cisco Tetration Intent-Based Networking

Describe Intent-Based Policy

Examine Policy Features

Implement Policies

## Enforcing Tetration Policy Pipeline and Compliance

Examine Policy Enforcement

Implement Application Policy

Examine Policy Compliance Verification and Simulation

## Examining Tetration Security Use Cases

Examine Workload Security

Attack Prevention

Attack Detection

Attack Remediation

## Examining IT Operations Use Cases

Key Features and IT Operations Use Cases

Performing Operations in Neighborhood App-based Use Cases

## Examining Platform Enhancement Use Cases

Integrations and Advanced Features

Third-party Integration Examples

Explore Data Platform Capabilities

## **Exploring Cisco Tetration Analytics Administration**

Examine User Authentication and Authorization

Examine Cluster Management

Configure Alerts and Syslog

### **Lab outline**

Lab 1: Cisco Tetration GUI Familiarization

Lab 2: Software Installation

Lab 3: Importing Context Data

Lab 4: Scopes

Lab 5: Application Dependency Mapping with Agents

Lab 6: Implementing Policy

Lab 7: Policy Enforcement and Compliance

Lab 8: Workload Security

Lab 9: IT Operations

Lab 10: Administration