DCITET

Implementing Cisco Tetration Analytics

24 horas | Data Center & 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

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

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

PRÉ-REQUISITOS

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.

CONTEÚDO PROGRAMÁTICO

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