Objetivos

- Describe the overall architecture of the Cisco security solutions and how APIs help enable security

- Know how to use Cisco Firepower APIs

- Explain how pxGrid APIs function and their benefits

- Demonstrate what capabilities the Cisco Stealthwatch APIs offer and construct API requests to them for configuration changes and auditing purposes

- Describe the features and benefits of using Cisco Stealthwatch Cloud APIs

- Learn how to use the Cisco Umbrella Investigate API

- Explain the functionality provided by Cisco AMP and its APIs

- Describe how to use Cisco Threat Grid APIs to analyze, search, and dispose of threats

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Pre-requisitos

Before taking this course, you should have:

- Basic programming language concepts

- Basic understanding of virtualization

- Ability to use Linux and Command Line Interface (CLI) tools, such as Secure Shell (SSH) and bash

- CCNP level core networking knowledge

- CCNP level security networking knowledge

The following Cisco courses can help you gain the knowledge you need to prepare for this course:

- **Implementing and Administering Cisco Solutions (CCNA®)**

- **Introducing Automation for Cisco Solutions (CSAU)**

- **Programming Use Cases for Cisco Digital Network Architecture (DNAPUC)**

- **Introducing Cisco Network Programmability (NPICNP)**

- **Implementing and Operating Cisco Security Technologies (SCOR)**

Contenido

- Introducing Cisco Security APIs

- Consuming Cisco Advanced Malware Protection APIs

- Using Cisco ISE

- Using Cisco pxGrid APIs

- Using Cisco Threat Grid APIs

- Investigating Cisco Umbrella Security Data Programmatically

- Exploring Cisco Umbrella Reporting and Enforcement APIs

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- Automating Security with Cisco Firepower APIs

- Operationalizing Cisco Stealthwatch and the API Capabilities

- Using Cisco Stealthwatch Cloud APIs

- Describing Cisco Security Management Appliance APIs

Laboratorio

- Query Cisco AMP Endpoint APIs for Verifying Compliance

- Use the REST API and Cisco pxGrid with Cisco Identity Services Engine

- Construct a Python Script Using the Cisco Threat Grid API

- Generate Reports Using the Cisco Umbrella Reporting API

- Explore the Cisco Firepower Management Center API

- Use Ansible to Automate Cisco Firepower Threat Defense Configuration

- Automate Firewall Policies Using the Cisco Firepower Device Manager API

- Automate Alarm Policies and Create Reports Using the Cisco Stealthwatch APIs

- Construct a Report Using Cisco Stealthwatch Cloud APIs

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