



# Implementing Automation for Cisco Security Solutions (SAUI) v1.0

## 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

---

## 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



# Implementing Automation for Cisco Security Solutions (SAUI) v1.0

- 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