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**Learning Style: On Demand**

**Technology: Cisco**

**Difficulty: Intermediate**

**Course Duration: 40 Hours**

## **Implementing Automation for Cisco Security Solutions (SAUI) v1.0 - On Demand**



### **Course Information**

#### **About this course:**

This course equips you with skills to design advanced automated security solutions

for your network. A combination of theoretical lessons and hands-on labs will help you master the use of modern programming concepts, RESTful application programming interfaces (APIs), data models, protocols, firewalls, web, Domain Name System (DNS), cloud, email security, and Cisco Identity Services Engine (ISE) to strengthen cybersecurity for your web services, network, and devices.

You will also learn to work within the following platforms: Cisco Advanced Malware Protection (AMP), Cisco Threat grid, Cisco Firepower Threat Defense, Cisco ISE, Cisco Firepower® Management Center, Cisco pxGrid, Cisco Stealthwatch® Enterprise, Cisco Stealthwatch Cloud, Cisco Umbrella®, and Cisco Security Management Appliances. You will also learn when to use the API for each Cisco security solution to drive network efficiency and reduce complexity.

Upon completing this course, you will be fully prepared for the Automating and Programming Cisco Security Solutions (300-735 SAUTO) certification exam.

## **Course Objective:**

After taking this course, you should be able to:

- Describe the overall architecture of the Cisco security solutions and how APIs help enable security
- Know how to use Cisco Firepower APIs
- 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
- 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

## **Audience:**

This course is designed primarily for professionals in job roles such as:

- Network administrator
- Wireless design engineer
- Network manager
- Sales engineer
- Account manager
- Network engineer
- Systems engineer
- Wireless engineer
- Consulting systems engineer
- Technical solutions architect

## **Prerequisite:**

You should have the following knowledge and skills before taking this course:

- Basic programming language concepts
- CCNP-level core networking knowledge
- CCNP-level security networking knowledge
- Basic understanding of virtualization
- Ability to use Linux and CLI tools, such as Secure Shell (SSH) and Bash

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)

## **Course Outline:**

### **Introducing Cisco Security APIs**

Role of APIs in Cisco Security Solutions  
Cisco Firepower, Cisco ISE, Cisco pxGrid and Cisco Stealthwatch APIs  
Use Cases and Security Workflow

### **Consuming Cisco Advanced Malware Protection APIs**

Cisco AMP Overview  
Cisco AMP Endpoint API  
Cisco AMP Use Cases and Workflows

### **Using Cisco ISE**

Introducing Cisco Identity Services Engine  
Cisco ISE Use Cases  
Cisco ISE APIs

### **Using Cisco pxGrid APIs**

Cisco pxGrid Overview  
WebSockets and STOMP Messaging Protocol

### **Using Cisco Threat Grid APIs**

Cisco Threat Grid Overview  
Cisco Threat Grid API  
Cisco Threat Grid Use Cases and Workflows

### **Investigating Cisco Umbrella Security Data Programmatically**

## Exploring Cisco Umbrella Reporting and Enforcement APIs

Cisco Umbrella Reporting and Enforcement APIs Overview  
Cisco Umbrella Reporting and Enforcement APIs: Deep Dive

## Automating Security with Cisco Firepower APIs

Review Basic Constructs of Firewall Policy Management  
Design Policies for Automation  
Cisco FMC APIs in Depth  
Cisco FTD Automation with Ansible  
Cisco FDM API In Depth

## Operationalizing Cisco Stealthwatch and the API Capabilities

Cisco Stealthwatch Overview  
Cisco Stealthwatch APIs: Details

## Using Cisco Stealthwatch Cloud APIs

Cisco Stealthwatch Cloud Overview  
Cisco Stealthwatch Cloud APIs Deep Dive

## Describing Cisco Security Management Appliance APIs

Cisco SMA APIs Overview  
Cisco SMA API

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