



IMPLEMENTING AUTOMATION FOR CISCO SECURITY SOLUTIONS (SAUI) V1.0

The Implementing Automation for Cisco Security Solutions (SAUI) v1.0 course teaches you how to design advanced automated security solutions for your network. Through a combination of lessons and hands-on labs, you will master the use of modern programming concepts, RESTful Application Program 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 learn to work within the following platforms: Cisco Firepower® Management Center, Cisco Firepower Threat Defense, Cisco ISE, Cisco pxGrid, Cisco Stealthwatch® Enterprise, Cisco Stealthwatch Cloud, Cisco Umbrella®, Cisco Advanced Malware Protection (AMP), Cisco Threat grid, and Cisco Security Management Appliances. This course will teach you when to use the API for each Cisco security solution to drive network efficiency and reduce complexity.

This course prepares you for 300-735 Automating and Programming Cisco Security Solutions (SAUTO) certification exam.

How you'll benefit

This course will help you:

- Learn how to design advanced automated security solutions

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

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Objectives

Upon completing this course, the student will be able to meet these objectives:

- 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

Course Duration

3 day

Course Price

\$3,495.00

Methods of Delivery

- ILT
- V-ILT

Certification Exam

300-735

Cisco CE Credits

N/A

Who Should Attend

The primary audience for this course is as follows:

- Network Engineer
- Network Administrator
- Systems Engineer
- Wireless Engineer
- Wireless Design Engineer
- Consulting Systems Engineer
- Sales Engineer
- Technical Solutions Architect
- Account Manager

Prerequisites

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

- Basic programming language concepts



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- 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:

- Introducing Automation for Cisco Solutions (CSAU)
- Implementing and Administering Cisco Solutions (CCNA®)
- Programming Use Cases for Cisco Digital Network Architecture (DNAPUC)
- Introducing Cisco Network Programmability (NPICNP)
- Implementing and Operating Cisco Security Technologies (SCOR)

Course Outline

Module 1: Introducing Cisco Security APIs

Module 2: Consuming Cisco Advanced Malware Protection APIs

Module 3: Using Cisco ISE

Module 4: Using Cisco pxGrid APIs

Module 5: Using Cisco Threat Grid APIs

Module 6: Investigating Cisco Umbrella Security Data Programmatically

Module 7: Exploring Cisco Umbrella Reporting and Enforcement APIs

Module 8: Automating Security with Cisco Firepower APIs

Module 9: Operationalizing Cisco Stealthwatch and the API Capabilities

Module 10: Using Cisco Stealthwatch Cloud APIs

Module 11: Describing Cisco Security Management Appliance APIs



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LAB OUTLINE

- 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