



CHECK POINT AUTOMATION SPECIALIST (CCAS)



AUDIENCE

This course is designed for Security Professionals who want to gain practical knowledge and skills using automation and orchestration technologies to streamline and improve Check Point security management and operations.



GOAL

Gain the knowledge and skills to effectively implement automation and orchestration technologies in a Check Point security environment.



PREREQUISITES

Working knowledge of Unix-like and/or Windows operating systems, networking fundamentals, networking security, TCP/IP networking, Bash scripting, and vi editor.
Other prerequisites that are strongly encouraged include knowledge of Check Point security (CCSA and CCSE) and a minimum of six months practical experience with Check Point security solutions.

TOPICS

Introduction to Automation and Orchestration

Introduction to Check Point APIs

Management API

Gaia API

Best Practices and Guidelines

JSON and jq

Postman

OBJECTIVES

- Define and explain the benefits of automation and orchestration.
- Discuss technologies used for automation and orchestration, such as scripts and APIs.
- Discuss the basic components of the Check Point API infrastructure and how these components interact to provide security automation and orchestration.
- Given a scenario, prepare the Check Point environment for API operations.
- Describe the basic workflow for Management API command usage.
- Identify the supported automation tools for Management API commands.
- Given a scenario, use the appropriate automation tool to run Management API commands.
- Describe the basic workflow for Gaia API command usage.
- Identify the supported automation tools for Gaia API commands.
- Given a scenario, use the appropriate automation tool to run Gaia API commands.
- List best practices and guidelines for Management and Gaia APIs.
- Identify the benefits of using the JSON argument (`--format json`) with Management API commands.
- Give examples of how to use the jq utility to filter Management API output.
- Identify the prerequisites for using Postman for Check Point Web API calls.
- Describe the basic workflow for using Postman to send Check Point Web API calls.
- Given a scenario, configure and use Postman to send Web API commands.

EXERCISES

- Use scripts to deploy a Security Management Server.
- Deploy a Security Gateway using the Blink utility.
- Use best practices to prepare the security environment for API usage.
- Use internal and external tools to automate object and policy creation and modification.
- Automate the creation and installation of the security policy.
- Automate the connection of the Security Gateway.
- Automate adjustments to Check Point Server Configuration with the Gaia API.
- Use the Management API and the Gaia API to add resources, modify object settings, and perform maintenance tasks.
- Use JSON scripts and jq to view objects and monitor performance.

CERTIFICATION INFORMATION

CCAS

Prepare for exam #156-521 at VUE [VUE.com/checkpoint](https://www.vue.com/checkpoint)

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