

## Check Point Certified Automation Specialist (CCAS) R81.20

Duration: 2 Days    Course Code: CKT\_CCAS\_R81\_20

### Overview:

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

### Target Audience:

This Specialist-level 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.

### 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.

### 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.

### Testing and Certification

Prepare for exams #156-521 at [www.VUE.com/checkpoint](http://www.VUE.com/checkpoint)  
Exam vouchers are available at an additional cost - please ask for details.  
Full information on Check Point's Certification Program can be viewed at  
<https://www.checkpoint.com/downloads/training/check-point-certification-faq.pdf>

## Follow-on-Courses:

Attend two Infinity Specialization courses and pass their exams to automatically become a Check Point Certified Security Master (CCSM).

Attend four Infinity Specialization courses and pass their exams to automatically become a Check Point Certified Security Master Elite (CCSM Elite).

- Check Point Certified Endpoint Specialist (CCES)
- Check Point Certified Troubleshooting Administrator (CCTA)
- Check Point Certified Cloud Specialist (CCCS)
- Check Point Certified MDSM Specialist (CCMS)
- Check Point Certified VSX Specialist (CCVS)
- Check Point Certified Troubleshooting Expert (CCTE)
- Check Point Certified Maestro Expert (CCME)
- Check Point Certified Cloud Network Security Expert for AWS (CNSE-AWS)
- Check Point Certified Cloud Network Security Expert for Azure (CNSE-AZURE)

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## Content:

<ul style="list-style-type: none"><li>• Introduction to automation and orchestration</li><li>• Introduction to Check Point APIs</li><li>• Management API</li><li>• Gaia API</li><li>• Best practices and guidelines</li><li>• JSON and jq</li></ul>	<ul style="list-style-type: none"><li>• Postman</li></ul> <p>Exercises:</p> <ul style="list-style-type: none"><li>• Use scripts to deploy a Security Management Server.</li><li>• Deploy a Security Gateway using the Blink utility.</li><li>• Use best practices to prepare the security environment for API usage.</li><li>• Use internal and external tools to automate object and policy creation and modification.</li></ul>	<ul style="list-style-type: none"><li>• Automate the creation and installation of the security policy.</li><li>• Automate the connection of the Security Gateway.</li><li>• Automate adjustments to Check Point Server Configuration with the Gaia API.</li><li>• Use the Management API and the Gaia API to add resources, modify object settings, and perform maintenance tasks.</li><li>• Use JSON scripts and jq to view objects and monitor performance.</li></ul>
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## Additional Information:

Please note that Check Point only offer e-kit courseware for training courses. Each delegate will be provided with an official set of e-kit courseware.

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### Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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