

Configuring Network Automation Solutions

Category: Networking & Security | **Vendor:** HPE Aruba Networking

Duration: 32.00 hours (4 days)

26.0 CPD Hours

Rating: ★ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The Configuring Aruba Network Automation Solutions course is structured to help students better understand Aruba network automation solutions. This course is designed to build a solid foundation for the network administrator or engineer entering the world of coding, scripting, and automation. After completing this course, students will have intelligent conversations with their automation team and close the gap between the automation and networking teams. This course teaches the essentials of Python, REST API, Ansible, and working knowledge. In addition, this course teaches the framework and the workflow of Aruba Python modules, Aruba SDK, and Ansible roles and collections.

This course is approximately 40% lecture and 60% hands-on lab exercises. This course is 3-days instructor-led with one extra day of lab time after the course.

About This Course

Version Control System

- Version Control System Overview
- git and GitHub Overview
- git Workflow

Programming Fundamentals

- Python Basics and Python Editors
- Python Data Structures
- Data type overview
- Conditional statements and decision making
- Python loop, functions and modules
- Python classes and objects
- Python try except
- Summary of Data Format Types (XML, JSON, YAML)

REST API

- REST API Overview
- API and API Use Case
- Aruba Networks API overview
- API Tools

Python Workflow

- Aruba Central SDK
- Aruba AOS-CX SDK
- Aruba AOS8 Automation and Python
- Aruba NAE Script

Ansible Part 1

- Overview
- Architecture
- Inventory and Playbook
- Variable
- Installation
- Roles and Collections Installation

Ansible Part 2

- Role and Collections
- Loops
- Conditionals and Blocks
- Vault
- Tower or AWX

Ansible Workflow

- Ansible Workflows with Aruba products

Who Should Attend

Ideal candidates are interested in network automation or network automation engineering role. Also, IT professionals are looking to further advance their knowledge on HPE Aruba network automation solutions for career growth.

Prerequisites & Entry Requirements

General Prerequisites:

While there are no programming or automation prerequisites, students should understand networking concepts such as device configuration of L2/L3 interfaces, VLANs, LAG, ACL, and OSPF.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

After you successfully complete this course, expect to be able to:

- Be familiar with different types of Version Control Systems and have a working knowledge of git and GitHub.
- Understand Python essentials, built-in Python data types, and Python functions.
- Understand how to create User-Defined Functions, Python modules, and different types of data formats (XML, JSON, and YAML).
- Understand REST API architecture and concepts and have a working knowledge of REST API.
- Be familiar to work with REST API tools, such as Swagger UI and Postman.
- Demonstrate a working knowledge of Aruba Central SDK and leverage its extensible features to build custom monitoring, configuration tools, custom dashboards, alerts, and notification frameworks.
- Have the ability to leverage Aruba AOS-CX SDK and Aruba AOS 8 to call upon its Python modules to access the REST API to automate and configure various features.
- Learn the skills to work with Aruba Network Analytics Engine (NAE) scripts, which help automation and assist with the root-cause analysis.
- Build a deeper understanding of Ansible as a network automation tool.
- Demonstrate a working knowledge of Ansible inventory, playbook, variables and Ansible, Ansible roles, and Ansible collections installation.
- Be familiar with Ansible's roles and collections; use Ansible loops and conditionals; evaluate Ansible Tower and AWX.
- Demonstrate a working knowledge of Ansible workflows with Aruba products.

Detailed Course Outline

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Skills You Will Learn:

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Frequently Asked Questions

Q: What delivery options are available for Configuring Network Automation Solutions?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
 - Traditional Instructor-Led Classroom Training (ILT)
 - On-site delivery at your offices anywhere in United Kingdom
 - Private dedicated courses customized for your team
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Q: How many CPD hours does this course provide?

The 4-day Configuring Network Automation Solutions course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Configuring Network Automation Solutions training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Configuring Network Automation Solutions?

Yes, we provide corporate training, dedicated training, and closed classes for Configuring Network Automation Solutions. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Configuring Network Automation Solutions, Aruba Products & Management, CANAS

Q: Why choose Nexus Human for Configuring Network Automation Solutions?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Configuring Network Automation Solutions training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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