
Network Automation with Ansible Fast Track

Duration: 5 Days Course Code: GK100605

Overview:

Learn how to automate your network using Python and Playbooks.

This course provides a comprehensive introduction to using Ansible for network automation and management. Ansible's agentless nature and human-readable YAML syntax lower the barrier to entry, enabling teams to achieve immediate ROI in configuration management and multi-vendor consistency. It teaches the principles of Infrastructure as Code by focusing on the desired outcome rather than a step-by-step process.

Updated 9/2026

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

- Network Engineer/Administrator
 - IT/Network Manager or Team Lead
 - Systems Administrator or DevOps Engineer
 - Security and Compliance Analyst
 - Aspiring Network Architect/Consultant
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Objectives:

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| ■ Automate at Scale: Develop and run Ansible playbooks to automate common network administration tasks. | ■ Build Reusable Solutions: Apply Jinja2 templates and Ansible Roles to create scalable, maintainable automation code. |
| ■ Manage Multi-Vendor Environments: Use Ansible's core modules and advanced features to manage configurations on a variety of network devices. | ■ Secure Your Workflows: Implement secure automation practices using Ansible Vault and robust error-handling techniques. |
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Prerequisites:

Basic Keyboard Proficiency: Ability to efficiently navigate and use a keyboard, including typing, copy-pasting, and basic text editing in terminal and/or text editors.

Testing and Certification

None

Follow-on-Courses:

None

Content:

Ansible Foundations

- Lecture: Introduction to Ansible
- Lecture: Introduction to YAML
- Lecture + Lab: Making an Inventory
- Lecture + Lab: Running a Playbook
- Lecture + Lab: ansible.cfg setup
- Lecture + Lab: Looping Tasks
- Lecture + Lab: Setting Variables
- Lecture + Lab: When Condition

Core Modules and Network Collections

- Lecture + Lab: Ansible Module - copy
- Lecture + Lab: Ansible Module - file
- Lecture + Lab: Ansible Module - get_url and uri
- Lecture + Lab: Ansible Module - template
- Lecture: Collections, Roles, and Ansible Galaxy
- Lecture + Lab: Using Collections
- Lecture + Lab: Exploring Switches with Ansible
- Lecture + Lab: Backup Cisco, Juniper, Arista, and More

Agnostic and Vendor-Specific Modules

- Lecture + Lab: Agnostic Network Modules
- Lecture + Lab: Simplifying Network Playbooks with Agnostic Modules
- Lecture + Lab: Network Playbooks and Vendor Specific Modules
- Lecture + Lab: Ansible Get Switch Config and Archive
- Lecture + Lab: network_cli Playbook

Dynamic Facts and APIs

- Lecture + Lab: Using Ansible Facts
- Lecture + Lab: Network API Calls
- Lecture + Lab: Jinja2 Templating for Network Configurations

Reusability and Security

- Lecture + Lab: Using Roles
- Lecture + Lab: Making Roles
- Lecture + Lab: Ansible Vault

Robustness and Error Handling

- Lecture + Lab: Ansible Error Handling
- Lecture + Lab: Network Playbook Error Handling
- Lecture + Lab: Network Playbook Precheck
- Lecture + Lab: Network Playbooks with Roles and Rollbacks

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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