# Network Automation with Ansible

**Cursusduur: 4 Dagen     Cursuscode: DO457**

## Beschrijving:

**Configure and manage network infrastructure using Red Hat Ansible Automation for Networking**

Red Hat Ansible for Network Automation (DO457) is designed for network administrators or infrastructure automation engineers who want to use network automation to centrally manage the switches, routers, and other devices in the organization's network infrastructure.
This course is based on Red Hat® Ansible Engine 2.5 and Red Hat® Ansible Tower 3.2.
Learn how to use Red Hat Ansible Automation for Networking to remotely automate configuration of network devices, test and validate the current network state, and perform compliance checks to detect and correct configuration drift. **Course summary**Install and configure Red Hat Ansible Automation for Networking on a management systemUse Ansible to run ad hoc commands and playbooks to automate tasksWrite effective Ansible playbooks for network automationGather information about network infrastructure configuration and backupAutomate specific network administration use cases, including configuration of routers and switches, ports, VLANs, SNMP monitoring, and routing protocolsUse Ansible playbooks to target devices from various hardware vendors, including Cisco, Juniper, and Arista

## Doelgroep:

This course is designed for network administrators, network automation engineers, and infrastructure automation engineers who want to learn how to use Ansible to automate the administration, deployment, and configuration management of the network infrastructure of their organization or enterprise.

## Doelstelling:

- Install and configure Red Hat Ansible Automation for Networking on a management system.

- Use Ansible to run ad hoc commands and playbooks to automate tasks.

- Write effective Ansible playbooks for network automation.

- Gather information about network infrastructure configuration and backup.

- Automate specific network administration use cases, including configuration of routers and switches, ports, VLANs, SNMP monitoring, and routing protocols.

- Use Ansible playbooks to target devices from various hardware vendors, including Cisco, Juniper, and Arista.

## Vereiste kennis en vaardigheden:

- Experience with network administration, including a solid understanding of TCP/IP, routers, and managed switches
- Familiarity with managing network devices from the command line, preferably with one or more of Cisco IOS, IOS XR, or NX-OS; Juniper JUNOS; Arista EOS; or VyOS
- A working knowledge of Linux, including how to edit text files and run commands from the shell, and how to use SSH to log in to remote systems
- Knowledge equivalent to Red Hat System Administration I (RH124) or better is strongly recommended
- Prior Ansible knowledge is not required

## Examens en certificering

## Cursusinhoud:

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| Deploy Ansible | Parameterize Ansible | Automate simple networking operations |
| Install Ansible and set up Ansible inventories. | Control tasks with loops and conditionals. | Gather network information with Ansible and modify networks. |
| Run commands and plays | Administer Ansible | Automate complex operations |
| Execute ad hoc commands and prepare Ansible playbooks. | Safeguard information with Ansible Vault and manage advanced inventories. | Solve new MACD challenges and resolve real-world problems. |

## Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk  030 - 60 89 444

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