Network Automation Essentials (NAE)

A qui s'adresse cette formation

This course is intended for:

- Network engineers
- Network operations center (NOC) operators
- Support staff
- Operation Managers

Pré-requis

To be successful in this course, you should have the following prerequisites or knowledge:

- Device management operations principles and practices
- TCP/IP and industry-standard networking protocols
- Familiarity with network devices such as routers, gateways, firewalls, switches
- Systems and network administration
- Familiarity with Linux command language and shell scripting
- Basic programming skills with shell scripting and Perl/Python programming

Objectifs

On completion of this course, participants should be able to:

- Describe basic components and functions of Micro Focus Network Automation (NA)
- Add and delete devices
- Create groups for device management
- Run tasks against devices and groups
- Create, edit, and use templates and change plans
- Create and use policies for compliance
- Create and use reports
- Use NA to upgrade device operating systems
- Create and use workflows for change control
- Monitor the NA server health
- Configure and manage the NA server operation
- Troubleshoot NA-related problems
- Utilize the resources provided by the OpenText Marketplace

Contenu

Module 1: Accessing the Lab Environment

- Identify the contents and objectives of the course
- Define the class schedule and class logistics
- Identify the related courses
- Review the lab environment details

Module 2: Network Automation Overview

- Describe the features of OpenText Network Automation software (NA)
- Describe the NA system architecture including Tiered architecture and Driver architecture
- Identify the concepts and terminology that are associated with NA
- Describe the NA user interface

Module 3: Device Management

- Identify the device authentication process
- Add devices
- Describe the auto-discovery process
- Import devices from a .csv file
- Search for devices
- Edit, view, and deploy a configuration
- Compare device configuration versions
- Perform a bare metal install
- Provision a device from a device template

Module 4: Device Access Methods, Device Groups, and Tasks

- Explain device access methods
- Identify the connection methods in NA
- Identify the transfer protocols in NA
- Differentiate between device groups and parent groups
- Differentiate between Partitions and Realms
- Configure device groups
- Identify the major task types available in NA
- Create, manage, and perform device tasks

Module 5: Change Plans and Tasks

- Explain Change Plans and the supported features

- Identify the common operations you can do using Change Plans
- Edit and configure Change Plans
- Deploy Change Plans

Module 6: Access Control Lists (ACLs)

- Explain the Access Control Lists (ACLs)
- Create, edit, and run ACL scripts
- Create, edit, and use identity resource pools

Module 7: Deploying Software Images and Using the Command-Line Interface

- Explain the procedure for upgrade of software images using NA
- Prepare for updating a software image on a device
- Upload and manage software images
- Deploy software images
- Use the CLI of NA to manage network devices
- Create advanced scripts from (automatically) recorded user sessions

Module 8: Managing Policies

- Explain the compliance life cycle
- Manage configuration policies, including creating and modifying configuration policies
- Export and import configuration policies
- Review policy activity
- Test configurations against policies
- Review the Policy Subscription Service

Module 9: Managing Reports

- Identify the different reports available in the NA system
- Explain the use of the Statistics dashboard
- Search for reports
- Create and view various types of reports

Module 10: Task Troubleshooting

- Identify failed tasks
- Explain how to read the tasks details
- Troubleshoot failed tasks
- Review common device issues

Module 11: Authorizing User Access

- Plan for users, access, and authorization
- Differentiate between roles and permissions
- Create user accounts and user groups

- Edit user accounts
- Add users to user groups
- Create partitions
- Add users, user groups, devices, and device groups to partitions

Module 12: Workflows

- Explain the workflow process
- Create and manage workflows

Module 13: Monitoring Server Health

- Verify the server status with the built-in NA monitoring tools
- Explain data pruning tasks
- Configure and use Event Notification and Response rules

Module 14: Administrative Settings

- Explain the NA server administrative settings
- Configure and manage the NA server administrative settings

Module 15: Administrative Troubleshooting

- Identify NA-related problems
- Diagnose NA-related problems
- Isolate NA-related problems
- Resolve NA-related problems
- Locate additional references and support materials such as Contacting NA Support, Reporting a problem, Knowledge Base, Class registration, Documentation
- The OpenText Marketplace

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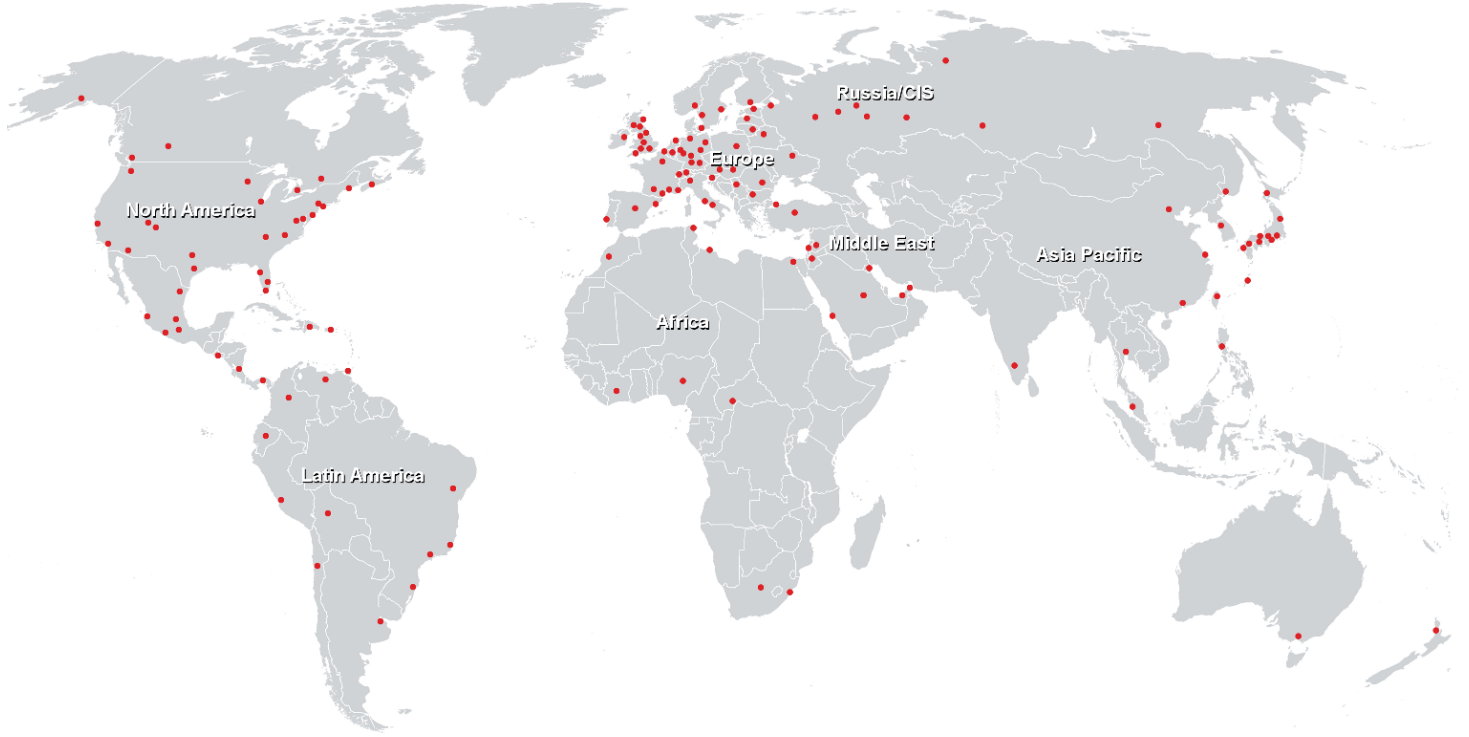
Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

info@flane.ch, https://www.flane.ch