Cel szkolenia:

This Network Node Manager i (NNMi) ART course is comprised of 8 modules and is designed for Network Operators and Administrators. This includes an overview of NNMi, key terminologies and definitions, and methods to troubleshoot a networked environment. The course provides simulations to reinforce learning objectives. The hands-on lab simulations use version 10.5 of the software.

Upon successful completion of this course, you should be able to:

- Use the NNMi software to monitor and troubleshoot a networked environment
- Quickly identify, address and remediate problems
- Monitor incidents and perform network diagnostics
- Use the NNMi monitoring toolsto obtain the information necessary to use networked devices at optimal performance and efficiency
- Understand Virtualization support and view performance reports

Audience/Job Roles

- Network Designers, Operators, and Administrators
- NNMi end-users who need to install, configure, test, use, and maintain an NNMi system and its integration with other Micro Focus products

Plan szkolenia:

- Introduction to Network Node Manager i 10.50
  - Network Operations Management Suite
  - NNMi Functionality and Features
  - Continuous Spiral Discovery
  - Map-Based Management
  - Graphical Topology Visualization
• Comprehensive Device Fault Monitoring
• Active Root Cause Analysis for Topology Changes
• Incident Management and Event Correlation
• NNM isPI for Operational Performance Management
• High Availability (HA) and Application Level Failover
• NNMi Advanced Features

• SNMP Configuration and Network Discovery
  • Network Management Tasks
  • NNMi’s Network Management Model
  • SNMP Operations in NNMi
  • NNMi Communication Layer Architecture
  • SNMP Configuration Operations
    o Configure the Common User Operations Performed for SNMP
    o Configure the SNMPv1 and SNMPv2c Communication Settings
    o Configure the SNMPv3 Communication Settings
    o Configure the Regional SNMP Proxy

• Spiral Discovery Concepts
  o Spiral Discovery in NNMi
  o Inventory Basics Stage – Initial Discovery of a New Node
  o Connectivity Details Stage
  o Connectivity Analysis Stage
  o New Node Discovery for Node Characteristics
  o Discovery of Islands (Disconnected Subnets)
  o Rediscovery of Nodes in NNMi

• Device Discovery Operations
  o Common User Operations Performed for Device Discovery
  o Set Initial Discovery Configuration and Interval Settings
  o Configure Interface Filters – Included Interfaces
  o Define Auto-Discovery Rules
  o Configure IP Exclusion Range
  o Create Discovery Seeds
  o Add Multiple Discovery Seeds
  o Verify Discovery
  o View Discovered Objects
  o Delete an Object from the Inventory
  o Discovering Nodes while Using Network Address Translation (NAT)

• Perform SNMP Configuration using the NNMi Console*
Perform Network Discovery*

- Using the NNMi Management Console
  - Accessing NNMi Console
  - NNMi Console Main Page
  - Navigating the NNMi Console
  - Locate Workspaces
  - Display Map Views
  - View Network Overview Dashboard
  - Visualize Key Groups in Topology Maps
  - View the Inventory in a Tabular View
  - Display Data in a Tabular View
  - Review Object Details in the Analysis Pane
  - Modify Attribute Values of an Incident Object
  - Invoke User Initiated Actions from the Menu
  - Use Filters on Views
  - View Status of a Selected Node Group
  - Find a Node in the Inventory
  - Schedule Node Outages using Management Mode
  - View Component Performance Dashboard
  - View Interface Performance Dashboard
  - View Node Performance Metrics for Performance Analysis
  - View Inventory Node Details*
  - Review the Device Information*
  - Review Information about a Stacked Switch*

- Incident Management
  - Incident Generation Process
  - Incident Lifecycle
  - Incident Lifecycle States
  - NNMi Incident Concepts
  - Incident Browsing Workspace Views
    - Current Incidents View
    - Historical Incidents View
  - Common User Operations for Incident Management
    - Review Incident Details
    - Own an Incident
    - Assign an Incident
- o Annotate an Incident
- o View the Related Object Details
- o View Impacted Nodes
  - Manage Incidents Using NNMi*
  - Explore the Historical Incident View*

Troubleshooting Network Problems
- Troubleshooting a Network Issue
- User Operations for Troubleshooting Network Issues
- Topology Map View
- Node Group Overview
- View Status Details for a Node Group
- View Network Propagation Status
- Incident Views
- Layer 2 Neighbor View
- Layer 3 Neighbor View
- Path View
- Router and Switch Views
- Test Accessibility Using the Ping Command
- View the Network Route Using the Trace Route Command
- Access Devices Using the Telnet Command
- Perform Status Polling on a Device
- Perform Configuration Polling on a Device
- View Real-time Performance Graphs
- Troubleshoot Network Problems*

Inventory Nodes Management
- Inventory Management
- Grouping of Nodes
- Existence of Nodes in Multiple Groups
- Group Hierarchy and Containment
- Default Node Groups
- Common User Operations for Inventory Management
- Create a New Node Group
- Add a Device Filter and Additional Filter Attributes
- Assign Specific Nodes to a Node Group
- Define Child Node Groups
- Select Device Descriptors
Select the Device Model and Device Profile
Preview Nodes that Belong to a Node Group
Configure Node Group Status Propagation
View Default Interface Groups
Configure Child Node Groups
Configure a Parent Node Group

Performance Reporting
  iSPI Performance for Metrics
  Single Sign-On (SSO) Configuration
  NNM iSPI for Performance Integration with NNMi
  Launching iSPI Reports from NNMi Console
  Launching NPS Portal Reports
Extension Packs in iSPI for Performance
  Performance Reporting Groups
  Self Monitoring Extension Pack
  Interface Health Extension Pack
  Component Health Extension Pack
Types of Reports Supported in iSPI
  Chart Detail Reports
  Dashboard Reports
  Headline Reports
  Baseline Sleeve Reports
  Top N Reports
  Peak Period Reports
  Threshold Sleeve Reports
View iSPI Performance Reports

Virtualization Management * Indicates a simulation
Key Concepts of Virtualization
Discover and Monitor the hypervisor (ESXi Server)
Management of ESXi Servers
Management of ESXi Virtual Machines
Web Agent Running on the ESXi Server
Device Credentials for Web Agent
Trusted Certificates for Web Agent
Managed Nodes (VMs) on the ESXi Server
Managed Virtual Switches on the ESXi Server
- Wheel Map Diagram
- Loom Map Diagram
- Layer 2 Map
- Manage Virtualization using NNMi*

* Indicates a simulation

Wymagania:

To maximize success in this course, students should have basic networking experience.

Poziom trudności

Certyfikaty:

The participants will obtain certificates signed by Micro Focus (course completion).

Prowadzący:

Authorized Micro Focus Trainer.