Szkolenie: Micro Focus
NNM120B - Network Node Manager i Essentials - Bundled with Digital Learning

FORMA SZKOLENIA  | MATERIAŁY SZKOLENIOWE | CENA          | CZAS TRWANIA |
-----------------|------------------------|---------------|--------------|
Stacjonarne     | Cyfrowe                | 8400 PLN NETTO* | 5 dni        |
Stacjonarne     | Tablet CTAB            | 8800 PLN NETTO* | 5 dni        |
Metoda dlearning| Cyfrowe                | 8400 PLN NETTO* | 5 dni        |
Metoda dlearning| Tablet CTAB            | 8800 PLN NETTO* | 5 dni        |

* (=VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

LOKALIZACJE

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00
Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

Cel szkolenia:

This course is designed for those Network and/or System administrators tasked with the installation, configuration, and maintenance of the Network Node Manager i (NNMi) product. This course teaches the skills needed to successfully implement the product to manage small, medium, or large networked enterprises. The course includes training on the NNM i Smart Plug-In (NNMi iSPI) Performance for Metrics Software, and NNMi Smart Plug-In Engineering Toolset. This course is designed for administrators of NNMi 2018.x. The hands-on lab exercises in this course use NNMi version 2018.05

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

- Configure network discovery
- Manipulate NNMi tables and device object records
- Design topology maps
- Configure incidents
- Generate performance graphs
- Generate performance reports
- Perform core administration tasks
- Manage an ESXi virtual environment
- Describe the features available in the iSPI for Engineering Toolset

Audience/Job Roles
This course is intended for network or system administrators and network engineers seeking more indepth knowledge of Network Node Manager i 2018.x.

Plan szkolenia:

- **Introduction to Network Node Manager i (NNMi) Software**
  - Describe how NNMi supports best business practices
  - Describe how NNMi fits in the family of management products
  - Differentiate NNMi and NNMi Advanced feature sets
  - List add-on and integrated products available
  - Describe how NNMi supports efficiency and effectiveness in managing your complex network

- **Managing SNMP and ICMP Communication**
  - Configure authentication for SNMPv1, SNMPv2, SNMPv3 (individual, region, type, filter, default)
  - Configure alternative authentication names
  - Use an alternate SNMP port or timeout
  - Use an SNMP proxy
  - Use the SNMP Command Line Interface (CLI)

- **Discovery Architecture and Operation**
  - Describe what NNMi discovers, how far, which objects
  - Describe how NNMi groups discovered objects
  - Describe how NNMi discovers connectivity
  - Describe limits of duplicate IP address management

- **Configuring Discovery**
  - Turn auto-discover (inventory) on/off
  - Schedule discovery
  - Initiate manual discovery (single, group, all nodes)
  - Expand discovery (single node, from file, for region)
  - Limit discovery (filter by region, type, node or interface level, before/after SNMP query)
  - Recheck node configuration
  - Recheck connectivity
  - Remove discovered objects (individually, by filter, by region)

- **Using the Management Console**
  - Start the NNMi console
  - Locate workspaces
  - Navigate tables, maps, views, and forms
- Access object details
- Working with Performance and Overview Dashboards
- Sort and filter tables

- Configuring Node and Interface Groups
  - Describe how node and interface groups are applied in NNMi
  - Configure a group by object type, region, specific object, default
  - Use advanced filtering on object capabilities

- Customizing Views
  - Create a map of a node group
  - Place the map in the list of topologymaps
  - Control the default map displayed when the console opens
  - Add a background to amap
  - Control status propagation
  - Add connections to Path View maps

- Status Monitoring Architecture and Operation
  - Differentiate between fault monitoring and performance monitoring
  - Identify data gathered for interface monitoring and component health
  - Describe the roles of State Poller service and Causal Engine
  - Describe the operation of neighbor analysis

- Customizing Status Monitoring
  - Turn polling on/off (specific nodes, region, type)
  - Set polling interval by node or interface group
  - Set objects to out-of-service mode
  - Select polling protocol and set of data to be gathered
  - Verify the polling settings for an object
  - Perform an on-demand status poll of an object
  - Check polling backlog/performance
  - Exclude objects from status polling (individual, region, type)

- Configuring Users
  - Configure a user account for each of your NNMi users with the appropriate capabilities
  - Describe what each user group may access in the console
  - Configure Custom Security groups
  - Configure tenants
  - Configure command-line permissions
  - Audit account activity

- Troubleshooting Network Issues
- Describe the incident life cycle, assignments and ownership, and states
- View network incidents and incident details
- Sort and filter incidents
- Assign and reassign incidents
- Delete an incident
- Annotate an incident
- View historical incidents (closed)
- Cross-launch to graphical visualization
- Interpret root cause incidents
- Launch and interpret network visualization (different types)
- List nodes, interfaces, and addresses in the network
- View object details
- Filter a view by node group or interface group
- Invoke troubleshooting tools
- Check the status and configuration of a device
- Display incidents for a device

- Troubleshooting Using MIBs
  - Describe the use of Management Information Base (MIB) browsing and graphing during troubleshooting
  - Graph MIB data
  - Browse MIB data

- Event Monitoring
  - Describe event sources and processing

- Customizing Event Monitoring
  - Add and delete event definitions
  - Customize event category/severity/message
  - Create a new category or family
  - Add vendor trap definitions
  - Exclude an event from the display
  - Block trap storms
  - Block reception of events

- Thresholds and Custom MIB Monitoring
  - Configure iSPI Performance for Metrics Software thresholds and incidents
  - Configure Custom Polling Threshold Monitoring

- iSPI Performance for Metrics Software Architecture
  - Describe how NNMi passes data to the iSPI for Performance Metrics Software
- Describe how the iSPI Performance for Metrics Software stores data
- Perform basic troubleshooting steps
- Verify that data is being collected by NNMi
- Verify that collected data is being used by the iSPI Performance for Metrics Software
- Check that the iSPI Performance for Metrics Software is configured properly
- Start the iSPI Performance for Metrics Software service
- Verify that performance polling is enabled
- Verify that the iSPI Performance for Metrics Software Home Page opens

- Viewing Performance Data and Reports
  - List the reports available from the iSPI Performance for Metrics Software
  - Explain the difference between reports and live reports
  - Modify the report settings to change the way a report displays data
  - Determine the appropriate report to view based on use cases

- Administering NNMi
  - Customize NNMi console settings
  - Back up NNMi data and configuration
  - Check NNMi health from the GUI
  - Locate NNMi log files
  - Move from test to production (import/export tools)

- Managing Virtualization
  - Identify the Hypervisor (ESXi Server) hosting a virtual machine (VM)
  - Use a loom map to identify the hosting Hypervisor’s Network Interface Card (NIC) that the Virtual Machine is connected to
  - Use a wheel map to identify the hosting hypervisor's

- Appendix A: iSPI Engineering Toolset
  - Describe the functionality provided by the iSPI Network Engineering Toolset
  - Generate Incident-triggered diagnostic execution
  - Generate Trap Analytics reports

**Wymagania:**

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

- Windows system administration
- Network protocols
- Network device administration
Poziom trudności

Certyfikaty:

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

Prowadzący:

Authorized Micro Focus Trainer.