## Szkolenie: Micro Focus

### NNMI120B - Network Node Manager i Essentials - Bundled with Digital Learning

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<th>MATERIAŁY SZKOLENIOWE</th>
<th>CENA</th>
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<td>Cyfrowe</td>
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* (+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 NNi 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 topologymaps
- 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

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This course is intended for network or system administrators and network engineers seeking more in-depth 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 a map
- 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.