Szkolenie: Micro Focus
NNMI120B - Network Node Manager i Essentials - Bundled with Digital Learning

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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 NN Mi Smart Plug-In (NNMi iSPI) Performance for Metrics Software, and NN Mi Smart Plug-In Engineering Toolset. This course is designed for administrators of NN Mi 2018.x. The hands-on lab exercises in his course use NN Mi version 2018.05

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

- Configure network discovery
- Manipulate NN Mi 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
This course is intended for network or system administrators and network engineers seeking a 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 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.