

Training: Micro Focus NNMi120 - Network Node Manager Essentials



TRAINING GOALS:

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 PlugIn (NNM iSPI) Performance for Metrics Software, and NNMi Smart Plug-In Engineering Toolset. The hands-on lab exercises in this course use NNMi software version 10.30.

On-Demand Lab Environment

The hands-on lab exercises in this course are performed using an on-demand, cloud-based lab environment, so you can perform the lab exercises on your schedule. You have 60 days from date of purchase to start the lab environment for the first time. Once you start the lab environment, you have 25 hours of running time over a 30-day period to complete the hands-on lab exercises. These labs should take you 15-20 hours. You have full control over stopping and starting your lab environment, which is accessible 24 by 7.

Expert Support

Although this course is designed so that you can learn at your own pace without assistance, to ensure your success, an NNMi product expert will be assigned to answer any questions regarding the self-paced digital content or the hands-on lab exercises. You have up to 2 hours of support time and any questions submitted by email will be answered within 24 hours.

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 a more in-depth knowledge of NNMi version 10.3 or 10.4.

CONSPECT:

- Course Overview
 - Course objectives
 - Module schedule
 - Overview of network performance
 - Identify core performance issues
 - Identify how devices are connected to the network
 - Overview of the On-Demand Lab environment
- Managing SNMP and ICMP Communication
 - Understand the core principles of SNMP
 - Configure authentication for SNMPv1, SNMPv2, SNMPv3 (individual, region, type, filter, default)
 - Configure alternative authentication names
 - Use an SNMP proxy
 - Use the SNMP Command Line Interface (CLI)
- Discovery Architecture and Operation
 - Describe what NNMi discovers
 - Describe how NNMi groups discover objects
 - Describe how NNMi discovers connectivity
- Configuring Discovery
 - Configure Auto-Discovery
 - Configure discovery seeds
 - Configure tenants
 - Managing overlapping address aomains
 - Device profiles
- Touring the Management Console
 - Overview workspaces
 - Navigate topology MAPs
 - Manipulate tables
 - Access node details
 - Review virtual switch configurations
- Configuring Node and Interface Groups
 - Overview Node Groups

- Define a Node Group
- Review Node Group status
- Define a Node Group hierarchy
- Define members for the important Nodes Group
- Define an interface group
- Customizing Views
 - Topology Maps Overview
 - Define a Topology Map
 - Set a Default Topology Map
- Status Monitoring Architecture and Operation
 - Identify data gathered for interface monitoring and component health
 - Describe the roles of State Poller and Causal Engine
 - Describe the operation of neighbor analysis
- Customizing Status Monitoring
 - Perform a status poll
 - Review monitoring settings for a device
 - Define Global Polling settings
 - Define Node Group Polling settings
 - Define Interface Polling settings
 - Un-Manage a device
 - Schedule a period of out of service for a device
- Configuring Users
 - Overview of the NNMi user security model
 - Create user accounts
 - Create tenants
 - Create Security Groups
- Troubleshooting Network Issues
 - Manage network issues with incident management
 - Manage network issues by monitoring tables
 - Manage network issues through external incident systems
- Troubleshooting Using MIBs
 - Generate a MIB graph
 - Navigate the MIB browser
 - Overview the structure of a MIB file
 - Upload a MIB file to NNMi
- Event Monitoring Architecture

- Overview of SNMP Version 1 Traps
- Overview of SNMP Version 2c Traps
- Overview of SNMP Informs
- Customizing Event Monitoring
 - Configure an event
 - Define a pairwise configuration
 - Upload trap definitions from a MIB file
- Thresholds and Customized MIB Monitoring
 - Configure Interface Performance Monitoring using NPS
 - Configure Interface Performance Monitoring using Custom Poller
- 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
- Viewing Performance Data and Reports
 - Generate a performance report for a node
 - Generate a performance report for an interface
- Administering NNMi
 - Review NNMi status
 - Import and export configuration
 - Backup the database
 - Trim the incident database
 - Integrate from external applications
- Managing Virtualization
 - Identify the hypervisor (ESXi Server) hosting a virtual machine (VM)
 - Use a loom map to identify that the VM is connected to the hosting hypervisor's Network Interface Card (NIC)
 - Use a wheel map to identify that the VM is connected to the hosting hypervisor's NIC

REQUIREMENTS:

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

- Windows system administration
- Network protocols
- Network device administration

Difficulty level



CERTIFICATE:

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

TRAINER:

Authorized Micro Focus Trainer.