



ART 5.4 for Network Node Manager i 2020.08

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Regardless of which route chosen, users will gain an understanding of the important key concepts, as well as gain competency in both the navigation and functionality of the application.

Course Description

As an NNMi Operator, you need to perform daily operations and maintenance activities to manage your network. You need to monitor network devices for status and availability and maintain network performance. In this course, you will learn about the NNMi features to configure the SNMP and ICMP protocols in NNMi, discover devices through a spiral discovery mechanism, manage the network inventory in NNMi and build the network topology maps. You will access the NNMi console and manage workspaces, navigate dashboards and maps and access device object details. You can view and manage incidents to quickly detect, isolate, and

troubleshoot abnormal network behavior. As an operator, you also need to simplify the management of nodes within the inventory and generate performance reports. You need to group devices into node groups based on operator-defined criteria, and then define device filters for automatic population of nodes into the groups created. You will use the built-in integration between NNMi and the iSPI for Performance module to generate performance reports using the data collected in NNMi. You will learn to launch the iSPI Console, navigate its workspace to run component and interface reports, and analyze device and network performance data for proactive monitoring.

Audience/Job Roles

This course is intended for Network Operators using Micro Focus Network Node Manager i.

Course Objectives

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

- Explain about the various functionalities provided to operators such as the centralized NNMi web console, device inventory, network topology model, and graphical maps to perform device management operations.
- Describe details of the steps used by Operators to configure SNMP and ICMP settings within NNMi to communicate with devices for status and fault monitoring.
- Explain all three methods provided by NNMi to discover devices from the network such as manual discovery to load devices using the menu option, loading of seed files containing IP Addresses, and then auto-discovery using spiral discovery.
- Use its GUI interface to perform network operations management activities.
- Manage workspaces and display map views, explore dashboards to review component and interface performance of nodes, and visualize the network topology using both graphical maps and tabular inventory view.
- Use out-of-the-box (OOTB) incident views to help you monitor your network, and use tables and maps to review the details of an incident captured by NNMi.
- Manage the centralized NNMi Inventory, and how to create the parent and child node group hierarchy in NNMi's Inventory.
- Organize the discovered nodes into node groups for easier management.

Prerequisites / Recommended Skills

To be successful in this course, you need to have a working knowledge of your network topology and the TCP/IP protocol stack, along with SNMP network management protocol. Additional knowledge about network devices such as routers and switches, network protocols such as ICMP, Telnet, and SSH, and the Linux Command Line Interface will be useful while using NNMi to monitor your network.

Course Topics

Modules	Objectives
Module 1: Introduction to NNMi	<ul style="list-style-type: none"> • Introduction • Objectives • Network Operations Management Suite • NNMi Functionalities used by Operators • 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 • Summary • Assessment
Module 2: Defining SNMP and ICMP Configuration in NNMi	<ul style="list-style-type: none"> • Introduction • Objectives • Prerequisites for SNMP Configuration • Defining Global Default Credentials • Define Global Default Credentials * • Configuring the SNMPv1 and SNMPv2c Communication Settings • Configuring the SNMPv3 Communication Settings • Defining SNMP Configuration for your Networks • Define SNMP Configuration for the Core Network * • Define SNMP Configuration for the DC2 Network * • Configure the Regional SNMP Proxy • Summary • Assessment
Module 3: Discovering Network Devices in NNMi	<ul style="list-style-type: none"> • Introduction • Objectives • Methods to Discover a Device • Configuring Seeded Discovery for DC2 • Configure Seeded Discovery for DC2 * • Defining Discovery Configuration for Network Regions • Define Discovery Configuration for CoreNet * • Define Discovery Configuration for DC2 Servers * • Define Discovery Configuration for DC1 * • Configuring Discovery using Seeds • Configure Discovery using Seeds * • Creating User Defined Connection • Create User Defined Connection * • Summary • Assessment
Module 4: Using NNMi Management Console	<ul style="list-style-type: none"> • Introduction • Objectives • Using the NNMi Console • Locating Workspaces • Displaying Inventory Nodes • Display Inventory Nodes *

	<ul style="list-style-type: none"> • Manipulating Performance Dashboards • Manipulate Performance Dashboards * • Reviewing Network Device Information • Review Network Device Information * • Reviewing Interface Information • Review Interface Information * • Reviewing Information about a Stacked Switch • Review Information about a Stacked Switch * • Summary • Assessment
Module 5: Managing Incidents using NNMi	<ul style="list-style-type: none"> • Introduction • Objectives • Incident Lifecycle • Incident Lifecycle States • Incident Generation Process • Exploring Incidents using NNMi • Explore Incidents using NNMi * • Exploring the Historical Incident View • Explore the Historical Incident View * • Monitoring the Non-Normal Nodes • Monitor the Non-Normal Nodes * • Using Troubleshooting Tools in NNMi • Use Troubleshooting Tools in NNMi * • Summary • Assessment
Module 6: Managing Inventory Nodes	<ul style="list-style-type: none"> • Introduction • Objectives • Managing Inventory Nodes • Existence of Nodes in Multiple Groups • Group Hierarchy and Containment • Default Node Groups • Inventory Management Operations • Configuring Child Node Groups • Configure Child Node Groups * • Configuring a Parent Node Groups • Configure a Parent Node Group * • Summary • Assessment
Module 7: Generating Performance Reports	<ul style="list-style-type: none"> • Introduction • Objectives • iSPI Performance for Metrics • Configuring Single Sign-On (SSO) • NNM iSPI for Performance Integration with NNMi • Extension Packs in iSPI for Performance • Customizing Node Reports • Customize Node Reports * • Viewing Interface Performance Reports • View Interface Performance Reports * • Generating Path Health Report • Generate Path Health Report * • Summary • Assessment

❖ Indicates a simulation