IBM Tivoli Network Manager IP Edition 3.7 Fundamentals

At a glance

Duration: 4 Days

Delivery method: Classroom

Language: English

Course description

The Tivoli Network Manager IP Edition Fundamentals course is designed to provide an understanding of the key product processes, including the integration with Netcool/OMNIbus, Root Cause Analysis calculation and network monitoring via the Network Manager Pollers.

The Tivoli Network Manager IP Edition course begins with a basic overview of product components and their associated functionality. Students will then install and configure Tivoli Network Manager IP Edition, carrying out a full discovery of simulated networks containing various vendor specific devices. In order to further understand the intricacies of the discovery cycle, students will further customize discovery by changing the behavior of finders and agents. A few keys stitchers are introduced (though advanced stitcher configuration is covered in the Advanced training course). They will also learn how to get at granular discovery data and monitor processes through the use of OQL query commands.

They will also configure monitoring and understand how to suspend monitoring of devices within the network. In order to extend the functionality and build resilience, students will learn how to configure and maintain a Network Manager Failover Server pair into a full failover OMNIbus environment.

Objectives

Upon completion of this course, each student will gain an understanding of the basic features and tools of Tivoli Network Manager IP Edition, as well as gaining hands on experience in building and configuring discovery agents, and filters. Students will:

- Build an appreciation for the Network Manager interface and understand the product
- Be able to install Tivoli Network Manager IP Edition on UNIX/Linux servers
- Understand discovery in the context of Tivoli Network Manager IP Edition
- Learn about Layer 3 / Layer 2 discovery
- Develop an understanding of OQL
- Learn how to use Discovery Agents
- Learn how to build and use Discovery filters
- Know how to integrate Network Manager with Netcool/OMNIbus
- Appreciate Topoviz Hop View and partition view GUI
- Understand Active Object Classes
- Configure / customize Network Manager polling behavior

- Configure and maintain multiple domains
- Configure and maintain failover Network Manager servers

Course outline

1. Day 1
   - Product appreciation
   - Basic Installation
   - Layer 3 discovery
2. Day 2
   - Understanding discovery
   - Topoviz GUI - Hop View & Network View
   - Customizing discovery including filtering
   - Using the Structure Browser
3. Day 3
   - Introduction to OQL
   - Introduction to NCIM database
   - Discovery Agents
   - Active Object Classes
   - Poll Configuration GUI
   - Polling Policy GUI
   - Monitoring Theory
4. Day 4
   - OMNIbus Integration including enriching OMNIBus events with topology data.
   - Configuration of Multiple Domains
   - Configuration of Tivoli Network Manager Failover Servers

Who will benefit from this course

Pre-sales engineers, System Integrators, Value Added Resellers (VARs) and System Administrators of Netcool/Precision, who will be required to install, configure and maintain Netcool/Precision.

Required skills/knowledge

Students must have a 'system administrator' level understanding of UNIX/Linux. This should includ proficiency with the "vi" editor.

- Knowledge of network management, including SNMP and TCP/IP, routing, switching and network management systems.
- Understanding of network protocols include OSPF, MPLS, and BGP.
- The ability to determine the cause of a software problem, and work around or fix the problem
- Work with basic scripting techniques
- Attendance of the Netcool/OMNIbus Administration and Configuration course is mandatory if the student has never worked with Netcool/OMNIbus previously.

Note: Attendance of the Netcool/OMNIbus Administration and Configuration course is mandatory if the student has never worked with Netcool/OMNIbus previously. Attendance of the Netcool/Webtop 2.0 training is preferred.