



INSTALLATION AND GETTING STARTED

Network Configuration Manager



INTRODUCTION

Network Configuration Manager (NCM) is an agent-less configuration management solution for your routers, firewalls and switches. Using Network Configuration Manager, you can efficiently execute time-consuming configuration tasks like triggering backup, modifying configurations, identifying firmware vulnerabilities, auditing compliance and a lot more. It discovers network devices, builds up an inventory database and allows IT administrators to take control of configuring the devices from a central console. The web-based administrator console provides the User Interface to perform all the configuration operations. Additionally, it can be accessed from anywhere using any standard web browser.

Devices supported by NCM

A trusted solution used by thousands of network administrators around the world, Network Configuration Manager supports diverse range of devices from multiple vendors such as Cisco, Juniper, HP, Fortinet, etc. Other than the default list of devices, NCM allows you to add custom devices!

PREINSTALLATION

Network Configuration Manager - System requirements

Network Configuration Manager comes bundled with PostgreSQL database and also supports MS SQL database. Network Configuration Manager works on both Windows and Linux. The minimum hardware requirements for Network Configuration Manager are found below:

Parameter	Professional Edition	Enterprise Edition
Processor	2 GHz Dual-core, or more	2.5 GHz Dual-core, or more
RAM	4 GB RAM	16 GB
Hard disk space	100 GB	100 GB hard disk space

The system requirements shown above apply for an environment consisting of 50 devices only. If your environment consists of more than 50 devices, [click here](#).

Supported OS	Supported web-clients	Supported Protocols
<p>Windows</p> <ul style="list-style-type: none"> ● Windows XP Professional ● Windows XP 64 bit ● Windows Vista ● Windows Server 2008 ● Windows Server 2008 R1 & R2 ● Windows Server 2012 ● Windows Server 2012 R1 & R2 ● Windows 7 ● Windows 8 ● Windows 10 ● Windows Server 16 	<p>HTML client requires one of the following browsers** to be installed in the system:</p> <ul style="list-style-type: none"> ● IE 10 and above (on Windows) ● Latest version of Firefox ● Latest version of Chrome ● Latest version of Safari ● Microsoft Edge <p>** Network Configuration Manager is optimized for 1024 x 768 resolution and above.</p>	<p>SNMP v1/v2/v3, Telnet, SSH v1/v2, and TFTP</p>
<p>Linux</p> <ul style="list-style-type: none"> ● RedHat Linux 6.0 and above ● RedHat Linux Advanced Server 2.1 & 3.0 ● RedHat Enterprise Server 2.1 & 3.0 		

<ul style="list-style-type: none"> • Debian version 6.0 and above • Debian GNU/Linux 3.0 (Woody) • Mandrake Linux 10.0 • SUSE 10 and above • Cent OS 6.0 and above • Fedora 18 and above • Ubuntu 12 and above 		
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The following ports are used by Network Configuration Manager:

Port number	Usage
32000-32999	Wrapper
31000-31999	JVM (To Connect Wrapper)
13306	Database port
22	SCP Port
69	TFTP port
8060	Web Client port
514	Syslog Server port

INSTALLATION

Windows installation process:

After downloading ManageEngine_NetworkConfigurationManager.exe., the installation wizard will guide you through the installation process:

1. Choose an installation directory (The installation directory path will be "NCM_Home" by default).
2. Once the installation begins, choose one of the two check boxes - one for viewing ReadMe file and the other one for starting the server immediately after installation.
3. If you choose to start the server immediately, the process will start in the background.
4. If you choose to start the server later, after installation, you can start it from the Start >> Programs >> ManageEngine Network Configuration Manager menu.

Linux installation process:

1. Download ManageEngine_NetworkConfigurationManager_64bit.bin for Linux.
2. Login as root user.
3. Assign executable permission using command `chmod a+x <file-name>`
4. Execute the following command with administrator privileges
(sudo): `./<file_name>`
5. Follow the instructions as they appear on the screen.
6. Network Configuration Manager is installed in your machine in the desired location. Henceforth, this installation directory path shall be referred as "NCM_Home".

POST INSTALLATION

If there are any antivirus scanners or automatic backup applications running, they might interfere with database files and the normal functioning of the database. Exclude the home directory, NCM_home directory, from antivirus scanners. If the database is running in a remote server, network connectivity should be up to avoid the chance of data loss.

STARTING NETWORK CONFIGURATION MANAGER

Windows:

1. Click on Start > Programs > ManageEngine Network Configuration Manager to start the server.
2. Alternatively you can navigate to the <NCM_Home>\bin folder and invoke the run.bat file.

Linux:

1. Navigate to the <NCM Home>/bin directory and execute the run.sh file.
2. When the server is started, a command prompt window opens up showing startup information on several modules of Network Configuration Manager. Once all the modules have been successfully created, the following message will be displayed:

"Server started.

Please connect your client at <http://localhost:8060>"

***Note:** If you have changed the default web server port (8060) during installation, use that port number instead of 80.*

DEFAULT LOGIN CREDENTIALS

Username: admin

Password: admin

***Note:** The username and password can be modified later.*

DISCOVERING DEVICES

The discovery process in Network Configuration Manager allows you to discover devices in two ways:

SNMP - based discovery

SNMP - enabled network devices can be discovered using this method.

1. Go to Settings -> Discovery -> Network Discovery.
2. Enter the 'Device Name/ IP Address' to discover a particular IP address.
3. If you wish to discover more than one device, specify the start IP and end IP and discover devices falling within that IP range.
4. You can also export a CSV file containing IP address, host names, series and model and discover devices.

Manual device discovery

Devices which do not have SNMP enabled can be added by manual discovery method.

1. Go to Inventory >> click on '+' symbol.
2. In the tab that opens, provide the hostname/IP address, vendor, device type, series & model from the drop-down and click "Add".
3. The device will be added to the Inventory.

You can also manually add devices in bulk through CSV file import.

[Click here](#) to know more about device discovery in detail.

CREDENTIALS

To provide credentials:

1. Go to Inventory and click on the Credential icon.
2. Select the required credential protocol and click 'Add Credential'.
3. Enter the required parameters and click 'Save'. You can also create credential profiles and apply them to devices.

To create a credential profile:

1. Go to Settings -> Device Management -> Credential profile.
2. Click on "Add" and provide the necessary details.
3. Click on "save" to create the credential profile To know more about applying credentials, click [here](#).

Once the credentials are successfully given, you can start using NCM for various configuration activities like backup, compliance auditing, configlet automation etc.

LICENSE

Network Configuration Manager follows a device-based licensing model with its base price at \$ 714. Click [here](#) for a detailed pricing structure.

EDITIONS

Features	Free Edition	Professional	Enterprise
Starting Price	Free	\$595 (10 devices)	\$8395 (250 devices)
Max Devices Count	2 devices	10,000	50,000
Multi-Site/ Distributed Network Monitoring	×	×	✓

Configuration backup	✓	✓	✓
Network automation using Configlets	✓	✓	✓
Real-time change detection	✓	✓	✓
Configuration change notifications and rollback mechanism	✓	✓	✓
Network compliance management	✓	✓	✓
Detailed reports	✓	✓	✓
Discovery of Virtual Environment Support for devices from 200+ vendors	✓	✓	✓
Manage up to 10000 devices	✗	✓	✓
24x5 technical support	✗	✓	✓
Distributed environment support	✗	✗	✓
Automatic data sync	✗	✗	✓
Automatic upgrade	✗	✗	✓
Collective data/reports in the central server	✗	✗	✓

CONTACT DETAILS

- Write to us at ncm-support@manageengine.com or fill the [Support form](#)
- Forum for discussion:
<https://forums.manageengine.com/network-configuration-manager>
- Live online demo: <https://demo.networkconfigurationmanager.com/>
- Help docs:
<https://www.manageengine.com/network-configuration-manager/help/>
- E books:
<https://www.manageengine.com/network-configuration-manager/ncm-ebooks.html>
- Tech videos:
<https://www.youtube.com/channel/UCHLusaahd4nS9esD3xBVeUQ>