



# OpenNMS 101

Tarus Balog

[tarus@opennms.com](mailto:tarus@opennms.com)

<http://www.opennms.org/Training>

© 2017 The OpenNMS Group, Inc.

# Module 2: Getting Started

# The OpenNMS Home Page



Dec 3, 2016 05:47 JST

Search Info Status Reports Dashboards Maps admin

## Home

### Nodes with Pending Problems

There are no pending problems.

### Nodes with Outages

There are no current outages

### Availability Over the Past 24 Hours

Categories	Outages	Availability
Network Interfaces	0 of 0	100.000%
Web Servers	0 of 0	100.000%
Email Servers	0 of 0	100.000%
DNS and DHCP Servers	0 of 0	100.000%
Database Servers	0 of 0	100.000%
JMX Servers	0 of 0	100.000%
Other Servers	0 of 0	100.000%
<b>Total</b>	<b>Outages</b>	<b>Availability</b>
Overall Service Availability	0 of 0	100.000%

### Notifications

- You have no outstanding notices
- There are no outstanding notices
- On-Call Schedule

### Resource Graphs

Search

### KSC Reports

No KSC reports defined

Search

### Quick Search

Node ID:

Search

Node label like:

Search

TCP/IP Address like:

Search

Providing service:

Search

# Configuration Menu

## OpenNMS System

System Configuration  
Configure Users, Groups and On-Call Roles

## Provisioning

Manage Provisioning Requisitions  
Import and Export Asset Information  
Manage Surveillance Categories  
Configure Discovery  
Configure SNMP Community Names by IP Address  
Manually Add an Interface  
Delete Nodes

## Event Management

Manually Send an Event  
Configure Notifications  
Customize Event Configurations

Notification Status:  On  Off

# Configuration Menu (cont)

## Service Monitoring

- Configure Scheduled Outages
- Manage and Unmanage Interfaces and Services

## Performance Measurement

- Configure SNMP Collections and Data Collection Groups
- Configure SNMP Data Collection per Interface
- Configure Thresholds

## Distributed Monitoring

- Manage Monitoring Locations
- Manage Applications
- Manage Remote Pollers
- Manage Minions

## Additional Tools

- Instrumentation Log Reader
- Data Choices
- SNMP MIB Compiler
- Ops Board Configuration
- Surveillance Views Configuration
- JMX Configuration Generator
- OpenNMS Plugin Manager



# Exercise #2: Add an Admin User

- Login as “admin”
- Create a new user
- Add the user to the “admin” group
- Logout
- Login as the new user
- Note the status of the Configure OpenNMS menu item
- Logout
- Modify magic-users.properties
- Login as the new user
- Note the status of the Configure OpenNMS menu item



# OpenNMS File Locations

- `/opt/opennms/bin`: OpenNMS binary files
- `/opt/opennms/etc`: Configuration files
- `/opt/opennms/jetty-webapps`: Web server
- `/opt/opennms/lib`: Compiled libraries
- `/opt/opennms/share`: Reports and RRD data (symlink to `/var/opennms`)
- `/opt/opennms/logs`: Log Files (symlink to `/var/log/opennms`)



# OpenNMS File Types

There are main two types of OpenNMS files:

- XML Files

The eXtensible Markup Language creates files that are both Human and Machine readable.

- .properties Files

Format of *variable* = *value* <cr>





# Add a User

Navigate to Configure Users, Groups and On-Call Roles → Configure Users


[Home](#) / [Admin](#) / [Users and Groups](#) / [User List](#)

Click on the *User ID* link to view detailed information about a user.

 Add new user

Delete	Modify	Rename	User ID	Full Name
		<input type="text" value="Rename"/>	<a href="#">admin</a>	Administrator
			Default administrator, do not delete	

# Create Name and Password



Home / Admin / Users and Groups / User List / New User

Please enter a user ID and password below

User ID:

Password:

Confirm Password:

# Add Name and Details

[Home](#) / [Admin](#) / [Users and Groups](#) / [User List](#) / **Modify User**

Modify User: tarus

## User Password

## User Information

**Full Name:**

Tarus Balog

**Comments:**

He's an odd one, ain't he?



# Notification Information

## Notification Information

<b>Email:</b>	<input type="text" value="root@localhost"/>
<b>Pager Email:</b>	<input type="text"/>
<b>XMPP Address:</b>	<input type="text"/>
<b>Microblog Username:</b>	<input type="text"/>
<b>Numeric Service:</b>	<input type="text"/>
<b>Numeric PIN:</b>	<input type="text"/>
<b>Text Service:</b>	<input type="text"/>
<b>Text PIN:</b>	<input type="text"/>
<b>Work Phone:</b>	<input type="text"/>
<b>Mobile Phone:</b>	<input type="text"/>
<b>Home Phone:</b>	<input type="text"/>

# Duty Schedules

Duty Schedule										
	Delete	Mo	Tu	We	Th	Fr	Sa	Su	Begin Time	End Time
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0700	1900
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	2359

Add This Many Schedules

Remove Checked Schedules

# Click Finish!

Finish

Cancel





# Add a User to a Group

Navigate to Configure Users, Groups and On-Call Roles → Configure Groups

[Home](#) / [Admin](#) / [Users and Groups](#) / [Group List](#)

Click on the *Group Name* link to view detailed information about a group.

 Add new group

Delete	Modify	Rename	Group Name	Comments
		<input type="text" value="Rename"/>	<a href="#">Admin</a>	The administrators
		<input type="text" value="Rename"/>	<a href="#">Remoting Users</a>	Users with access for submitting remote poller management data.

# Add New User to Admin Group

---

## Assign/Unassign Users

---

### Available Users

tarus

### Currently in Group

admin

Move Up

Move Down

Select All

>>

Select All

<<



# Group Categories (ACLs)

## Assign/Unassign Categories

Available Categories	Currently in Group	Move Up
Routers Switches Servers Production Test Development TH-Storage-High-95 TH-Storage-Relative-33 TH-Network-Discards-High-5 TH-System-Temp-High-55 TH-Network-Bandwidth-High-99		Move Down
Select All	Select All	
>>	<<	

# Group Duty Schedules

Duty Schedules										
	Delete	Mo	Tu	We	Th	Fr	Sa	Su	Begin Time	End Time
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0700	1900

Add This Many Schedules

Remove Checked Schedules



# magic-users.properties

```
#####  
## R O L E S  
#####  
  
# A comma-separated list of role keys. A role.{KEY}.name and  
# role.{KEY}.users property must be set for each key in this property.  
roles=rtc, admin, rouser, dashboard, provision, remoting, rest, asset,  
mobile  
  
# This role allows a user to make RTC data posts.  
role.rtc.name=OpenNMS RTC Daemon  
role.rtc.users=rtc  
role.rtc.notInDefaultGroup=true  
  
# This role allows users access to configuration and  
# administrative web pages.  
role.admin.name=OpenNMS Administrator  
role.admin.users=admin, tarus  
  
# This role disallows user write access  
role.rouser.name=OpenNMS Read-Only User  
role.rouser.users=
```