



OpenNMS 101

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

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Module 4-2: Notification Commands



Exercise #4-2: Notification Commands

- Create a syslog command
- Add it to the Destination Path
- Create an auto-acknowledge entry
- Send the event
- Verify the log is created
- Auto-acknowledge the event before it escalates to the Group



notificationCommands.xml - Java

```
<command binary="false">
  <name>javaEmail</name>
  <execute>org.opennms.netmgt.notifd.JavaMailNotificationStrategy</execute>
  <comment>class for sending email notifications</comment>
  <contact-type>email</contact-type>
  <argument streamed="false">
    <switch>-subject</switch>
  </argument>
  <argument streamed="false">
    <switch>-email</switch>
  </argument>
  <argument streamed="false">
    <switch>-tm</switch>
  </argument>
</command>
```

notificationCommands.xml - binary

```
<command binary="true">
  <name>syslog</name>
  <execute>/usr/bin/logger</execute>
  <comment>syslog to local0.warning</comment>
  <argument streamed="false">
    <substitution>-p</substitution>
  </argument>
  <argument streamed="false">
    <substitution>local0.warning</substitution>
  </argument>
  <argument streamed="false">
    <substitution>-t</substitution>
  </argument>
  <argument streamed="false">
    <substitution>opennms</substitution>
  </argument>
  <argument streamed="true">
    <switch>-nm</switch>
  </argument>
</command>
```



notifd-configuration.xml

Notifd-configuration.xml controls several things:

- The status of notifications being on or off
- Events that will automatically acknowledge a notice

```
<auto-acknowledge resolution-prefix="Cleared: "  
    uei="uei.opennms.org/nodes/nodeRegainedService"  
    acknowledge="uei.opennms.org/nodes/nodeLostService">  
    <match>nodeid</match>  
    <match>interfaceid</match>  
    <match>serviceid</match>  
</auto-acknowledge>
```



Auto-acknowledge unhappiness Notice

```
<auto-acknowledge resolution-prefix="Cleared: "  
    uei="uei.opennms.org/class/happiness"  
acknowledge="uei.opennms.org/class/unhappiness">  
    <match>nodeid</match>  
</auto-acknowledge>
```



Implement New Command

- Add “syslog” command to notification commands
- Restart OpenNMS
`systemctl restart opennms`
- Edit “Class” destination path
- Add “syslog” in addition to “javaEmail” to first target
- Generate the unhappiness event again (with -n 1)
- Generate the happiness event (with -n 1)
- Note that the syslog gets generated
- Note the escalation stops

Implement New Command

- Navigate to Configure → Configure Notification → Configure Destination Paths
- Edit “Path4Class” and the first Target “OnCall”

Editing path: Path4Class

Choose the commands to use for each user and group. More than one command can be chosen

OnCall	<input type="checkbox"/> microblogReply <input type="checkbox"/> microblogUpdate <input type="checkbox"/> numericPage <input checked="" type="checkbox"/> syslog	<input type="checkbox"/> off <input type="checkbox"/> auto <input checked="" type="checkbox"/> on
--------	---	---

Reset

[Next >>](#)

Send the Event

Send the “unhappy” event (with the node 1 option):

```
send-event.pl -n 1 uei.opennms.org/class/unhappiness
```

then send the “happy” event (with the node 1 option):

```
send-event.pl -n 1 uei.opennms.org/class/happiness
```

28	Normal <input type="checkbox"/> <input type="checkbox"/>	Dec 5, 2016 3:05:09 AM <input type="checkbox"/> <input type="checkbox"/>	localhost <input type="checkbox"/> <input type="checkbox"/>
<hr/>			
uei.opennms.org/class/happiness <input type="checkbox"/> <input type="checkbox"/> Edit notifications for event			
<hr/>			
OpenNMS Class is Happy!			
27	Major <input type="checkbox"/> <input type="checkbox"/>	Dec 5, 2016 3:05:04 AM <input type="checkbox"/> <input type="checkbox"/>	localhost <input type="checkbox"/> <input type="checkbox"/>
<hr/>			
uei.opennms.org/class/unhappiness <input type="checkbox"/> <input type="checkbox"/> Edit notifications for event			
<hr/>			
OpenNMS Class is NOT Happy!			

Note the Escalation

Notice 3 from Event 29

Notification Time	Dec 5, 2016 3:07:25 AM	Time Replied	Dec 5, 2016 3:07:50 AM	Responder	auto-acknowledged
Node	localhost	Interface		Service	

Current outages for localhost

Numeric Message

3: The Class is Unhappy

Text Message

The class is unhappy. Perhaps they would be happier updating their [Google +](#) page.

Users Notified

Sent To	Sent At	Media	Contact Info
admin	Dec 5, 2016 3:07:42 AM	javaEmail	
admin	Dec 5, 2016 3:07:42 AM	syslog	

Verify Syslog

```
# tail /var/log/messages
```

```
Dec  5 03:03:20 localhost systemd: Starting OpenNMS Meridian server...
Dec  5 03:03:24 localhost opennms: Starting OpenNMS Meridian: (not waiting for
startup) [ OK ]
Dec  5 03:03:24 localhost systemd: Started OpenNMS Meridian server.
Dec  5 03:07:42 localhost opennms: 3: The Class is Unhappy
Dec  5 03:08:02 localhost opennms: Cleared: 3: The Class is Unhappy
```