

Configuring an SNMP Manager and Alerts

Fundamentals of Communications and Networking, Third Edition - Lab 07

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Time on Task:

19 hours, 0 minutes

Progress:

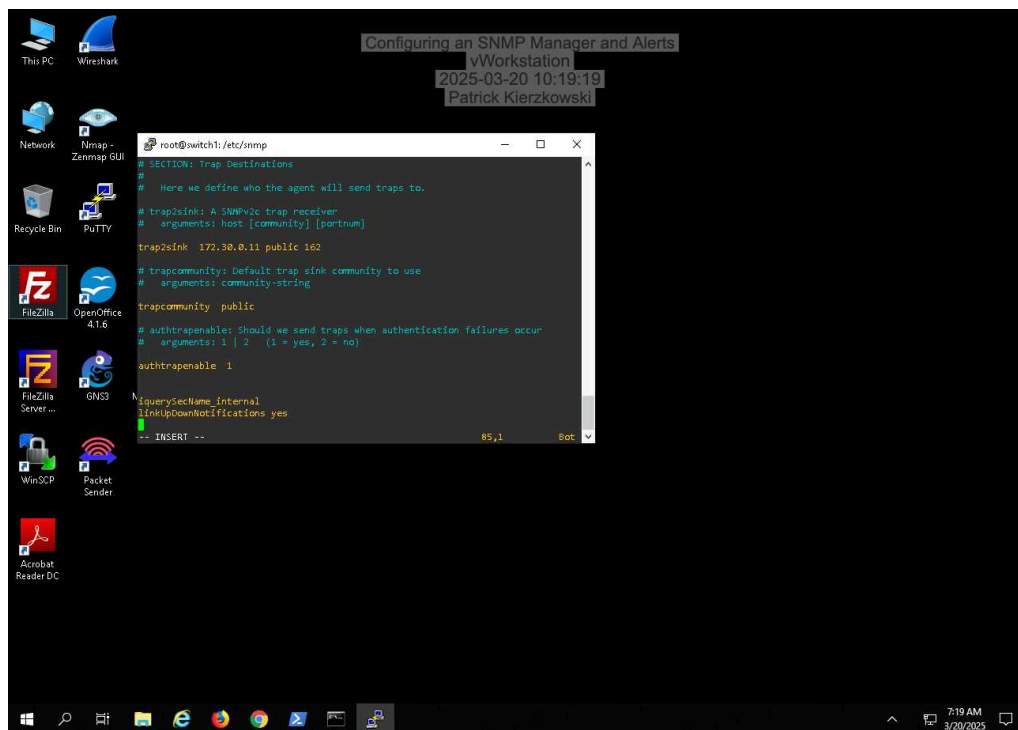
100%

Report Generated: Monday, July 7, 2025 at 9:46 PM

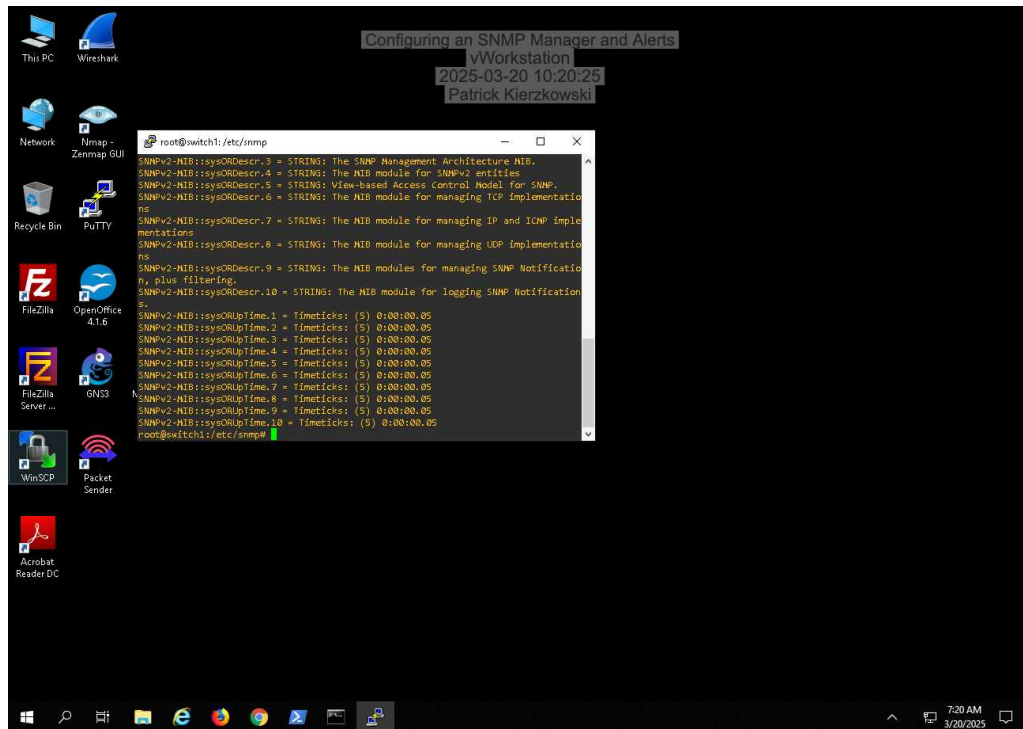
Section 1: Hands-On Demonstration

Part 1: Configure an SNMP Agent on a Network Device

44. Make a screen capture showing your manual additions to the `snmpd.conf` file.

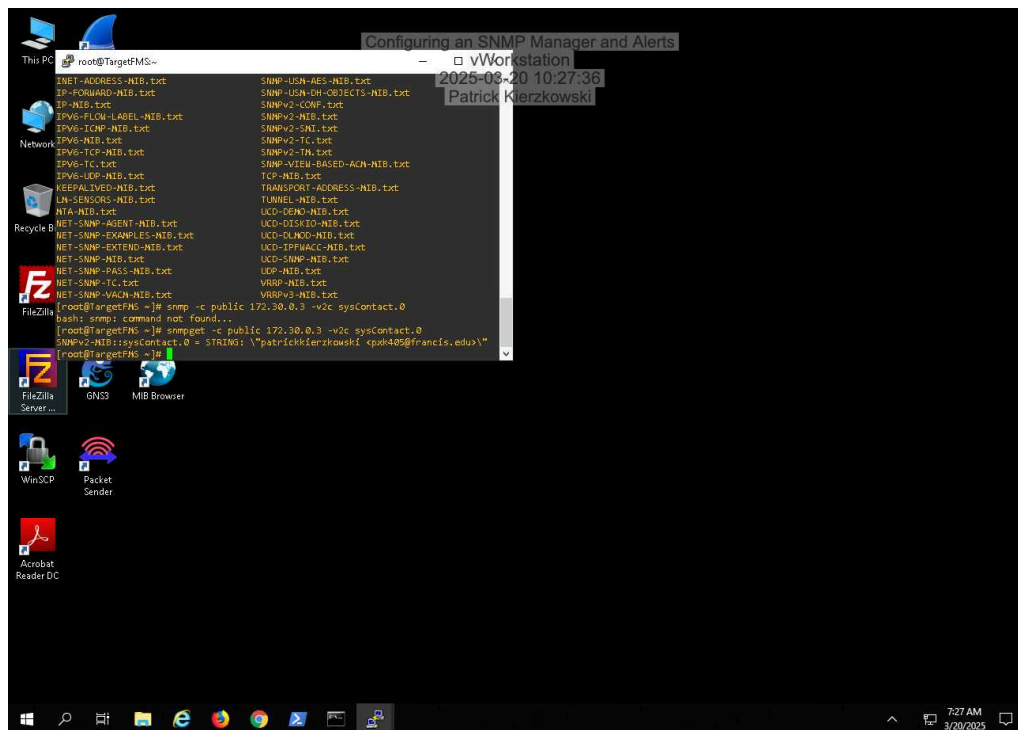


49. Make a screen capture showing the **sysLocation** and **sysContact** information obtained from your **snmpwalk** command.

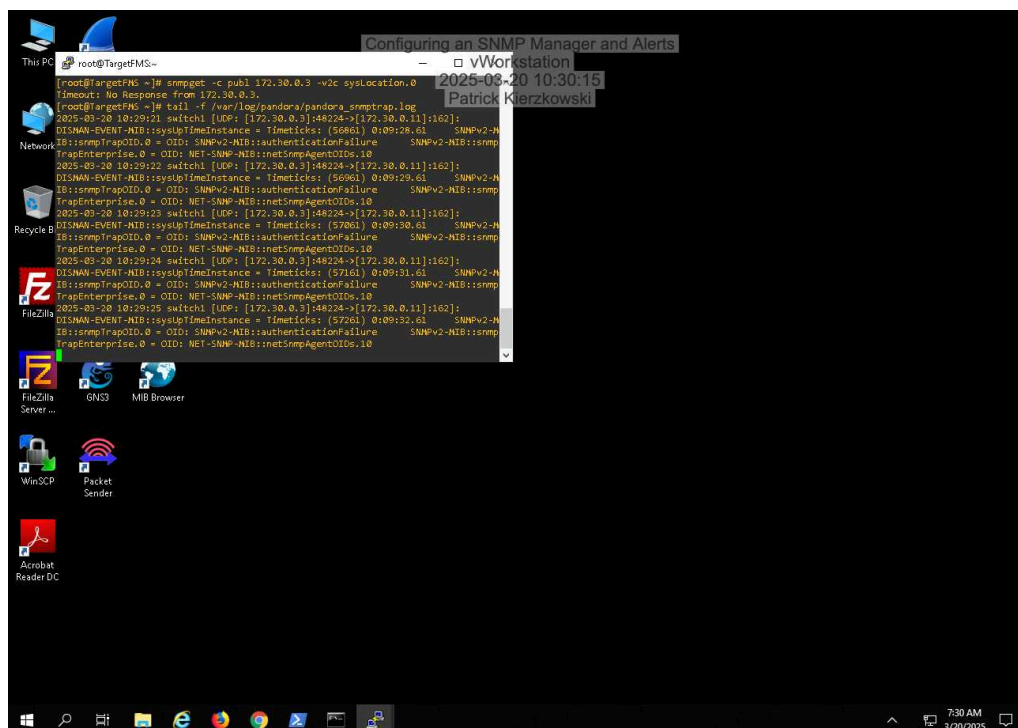


Part 2: Configure an SNMP Manager on a Network Monitoring System

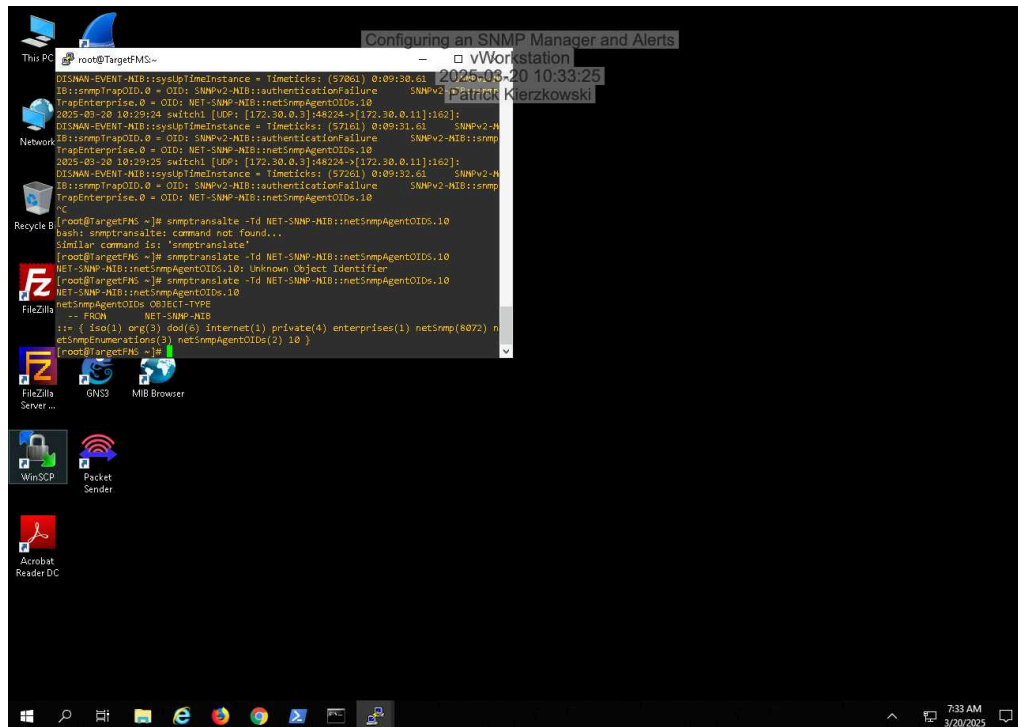
10. **Make a screen capture** showing the **output of your snmpget request**.



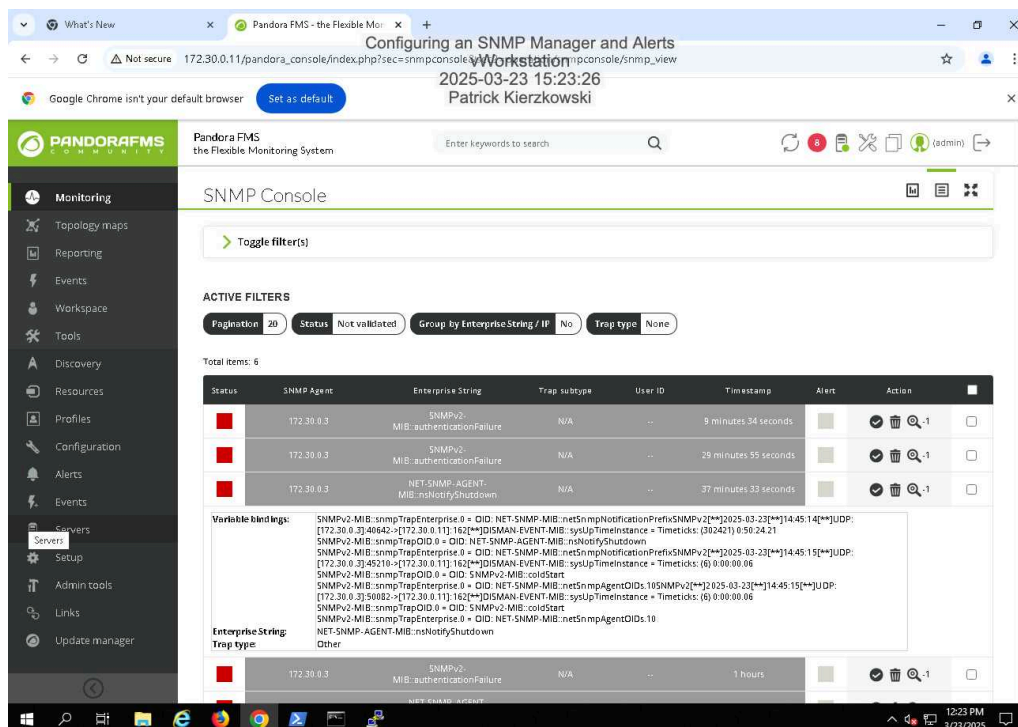
17. **Make a screen capture** showing the **authentication failure traps** in **pandora_snmptrap.log**.



20. Make a screen capture showing the output of your snmptranslate command.



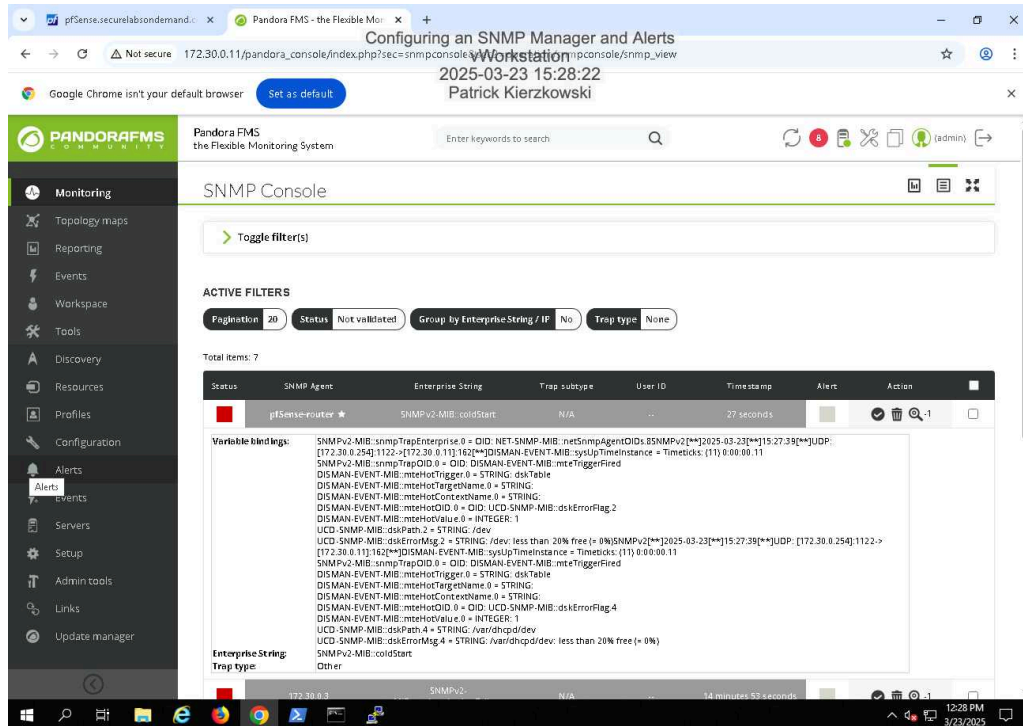
45. Make a screen capture showing the full details of the linkDown trap captured in Pandora SNMP console.



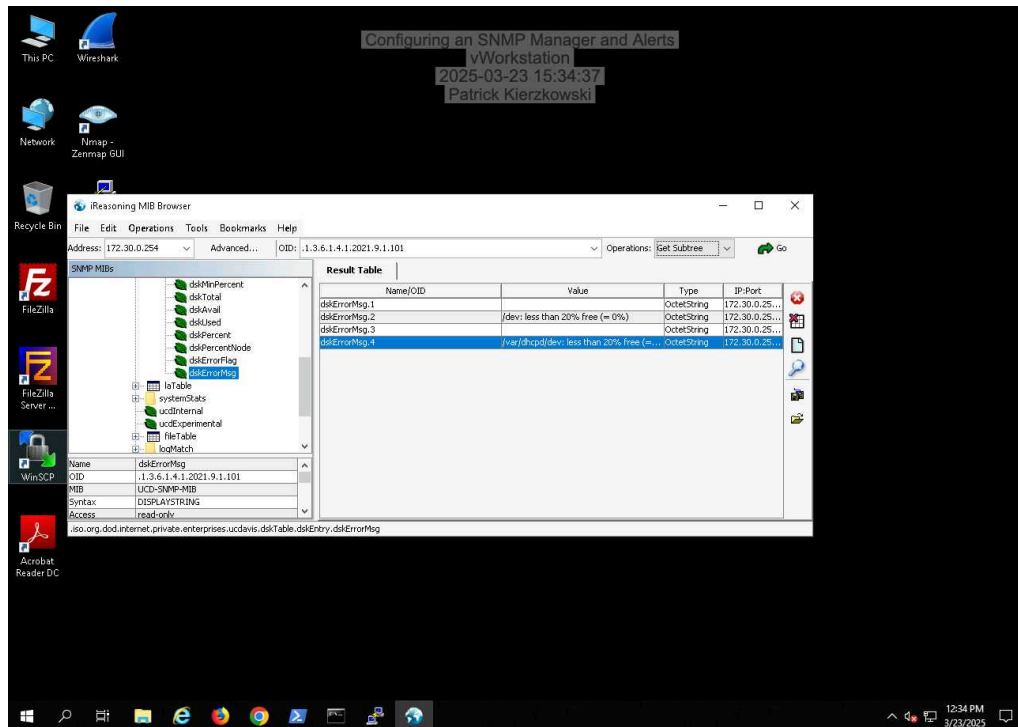
Section 2: Applied Learning

Part 1: Configure an SNMP Agent on a Network Device

20. Make a screen capture showing the full details of the SNMPv2-MIB::coldStart trap generated by the pfSense-router.

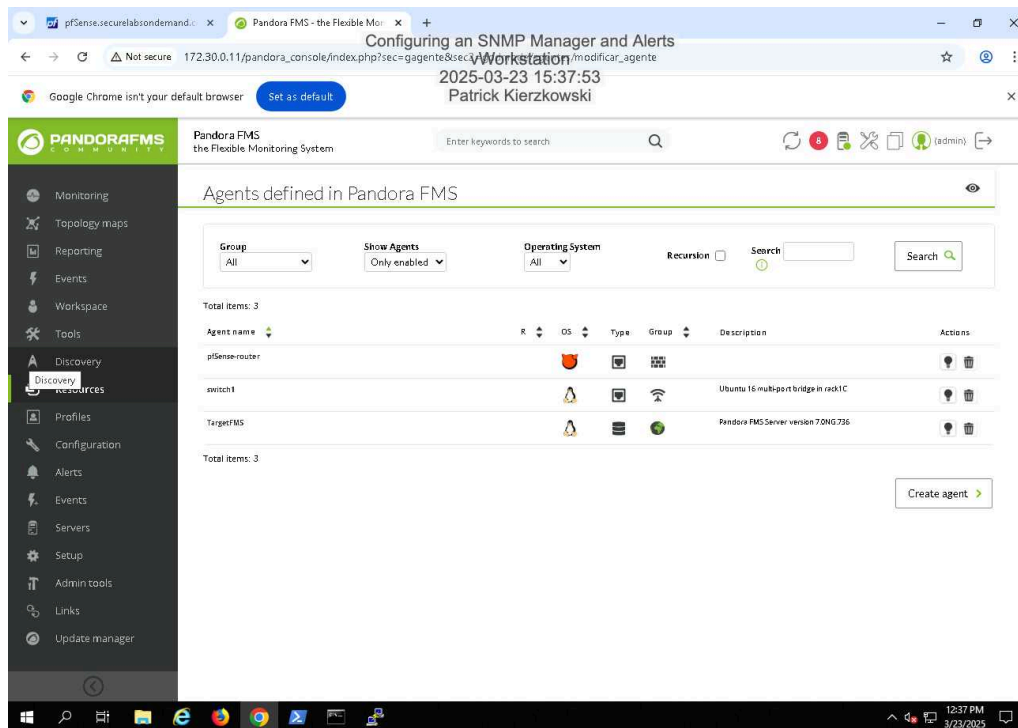


30. Make a screen capture showing the **disk error messages** in the **Result Table**.

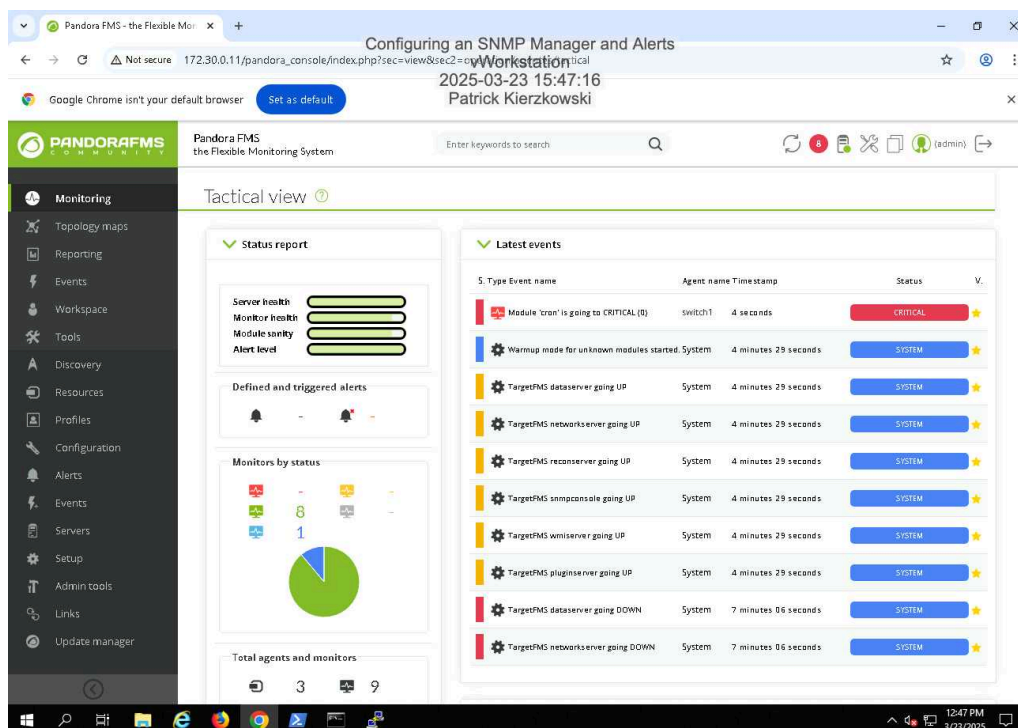


Part 2: Configure SNMP Polling on a Network Monitoring System

7. Make a screen capture showing the newly defined switch1 agent in the Manage agents view.



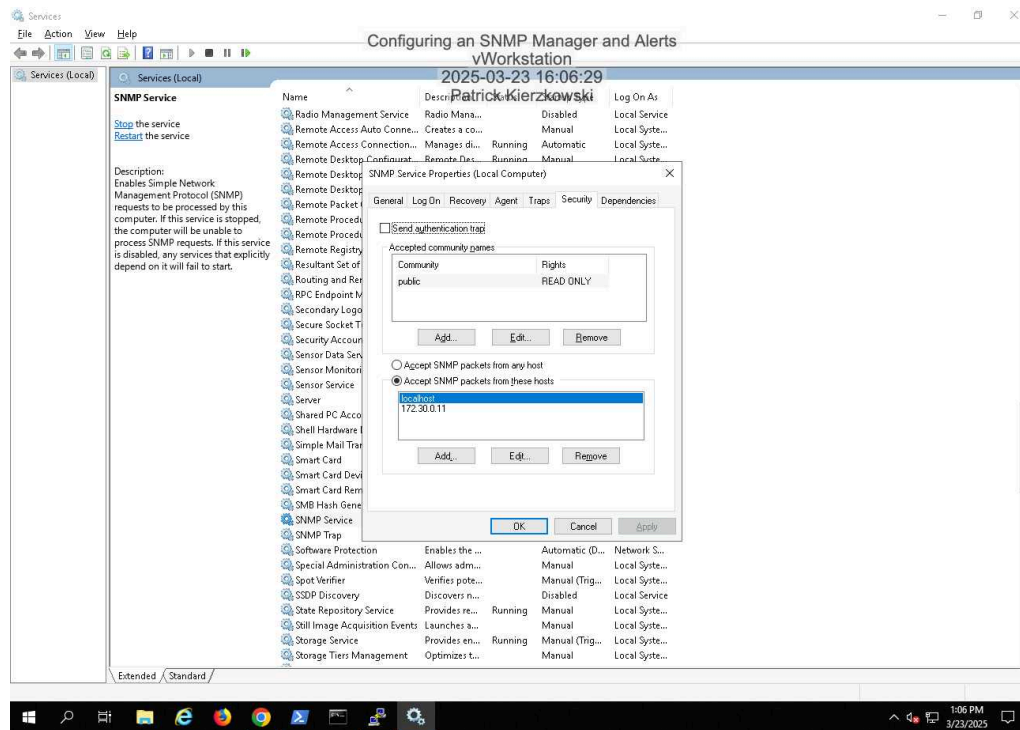
27. Make a screen capture showing the critical event generated in the Pandora Tactical view.



Section 3: Challenge and Analysis

Part 1: Configure the SNMP Service on a Windows Server

Make a screen capture showing the Security configuration in the SNMP Service Properties.

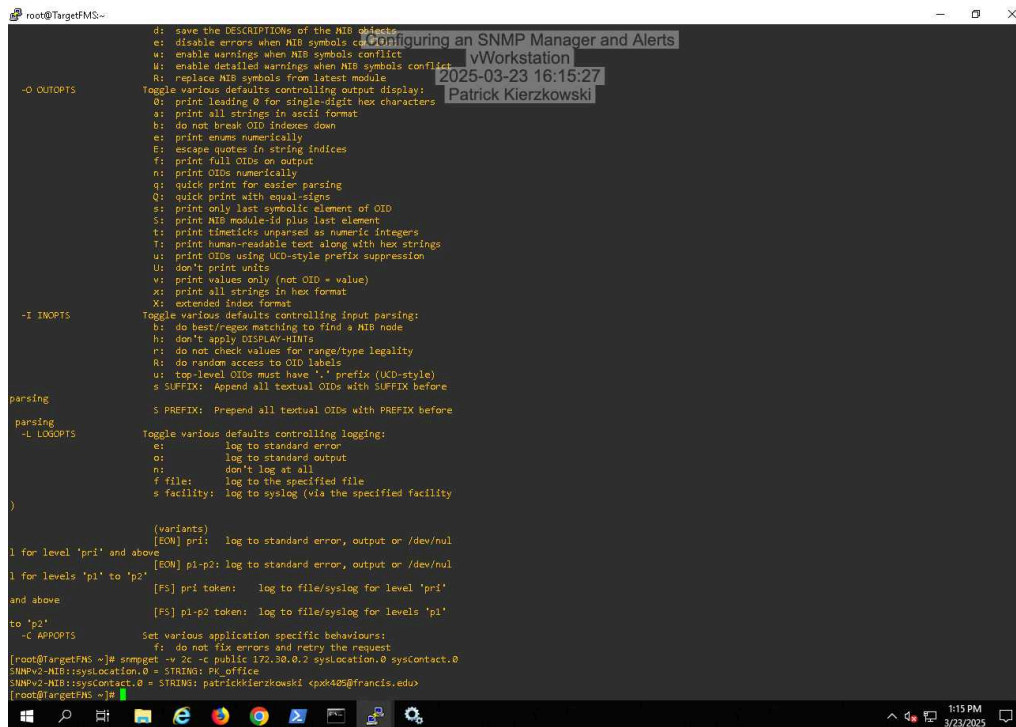


Part 2: Validate an SNMP Agent Configuration via GET Requests

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Make a screen capture showing the output of your SNMP GET request.



```
root@TargetFMS:~  
d: save the DESCRIPTIONS of the MIB objects  
e: disable errors when MIB symbols conflict  
u: enable warnings when MIB symbols conflict  
W: enable detailed warnings when MIB symbols conflict  
R: replace MIB symbols from latest module  
Toggle various defaults controlling output displays:  
O: print leading 0 for single-digit hex characters  
a: print all strings in ascii format  
b: do not break OID indexes down  
e: print enums numerically  
E: escape quotes in string indices  
f: print full OIDs on output  
n: print OIDs numerically  
q: quick print for easier parsing  
Q: quick print with equal-signs  
s: print only last symbolic element of OID  
S: print MIB module-id plus last element  
t: print timeTicks unparsed as numeric integers  
T: print human-readable text along with hex strings  
u: print OIDs using UCD-style prefix suppression  
U: don't print units  
v: print values only (not OID + value)  
x: print all strings in hex format  
X: extended index format  
-I INOPTS Toggle various defaults controlling input parsing:  
b: do bestregexp matching to find a MIB node  
h: don't apply DISPLAY-HINTs  
r: do not check values for range/type legality  
R: do random access to OID labels  
u: top-level OIDs must have '.' prefix (UCD-style)  
s SUFFIX: Append all textual OIDs with SUFFIX before  
parsing  
S PREFIX: Prepend all textual OIDs with PREFIX before  
parsing  
-L LOGOPTS Toggle various defaults controlling logging:  
e: log to standard error  
o: log to standard output  
n: don't log at all  
f file: log to the specified file  
s facility: log to syslog (via the specified facility)  
(variants)  
[EON] pri: log to standard error, output on /dev/nul  
l for level 'pri' and above  
[EON] p1-p2: log to standard error, output on /dev/nul  
l for levels 'p1' to 'p2'  
[FS] pri token: log to file/syslog for level 'pri'  
and above  
[FS] p1-p2 token: log to file/syslog for levels 'p1'  
to 'p2'  
-C APPOPTS Set various application specific behaviours:  
f: do not fix errors and retry the request  
[root@TargetFMS ~]# snmpget -v 2c -c public 172.30.0.2 sysLocation.0 sysContact.0  
SNMPv2-NIB:sysLocation.0 = STRING: PK_office  
SNMPv2-NIB:sysContact.0 = STRING: patrickkierzkowski (patrickkierzkowski@francis.edu)  
[root@TargetFMS ~]#
```

Part 3: Add a Windows Agent in Pandora and Configure SNMP Polling

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Make a screen capture showing the **CRITICAL** freeFTPSERVICE event in Pandora's Tactical view.

The screenshot displays the Pandora FMS web interface in Tactical view. The browser address bar shows the URL: `172.30.0.11/pandora_console/index.php?sec=estado&sec2=...`. The page title is "Configuring an SNMP Manager and Alerts". The user is logged in as "Patrick Kierzkowski" on "2025-03-23 16:43:31".

The interface includes a left sidebar with navigation options: Monitoring, Topology maps, Reporting, Events, Workspace, Tools, Discovery, Resources, Profiles, Configuration, Alerts, Events, Servers, Setup, Admin tools, Links, and Update manager. The "Links" option is currently selected.

The main content area is divided into three sections:

- List of modules:** Shows a table with columns: F. Type, Module name, Description, Status, Thresholds, Data, Graph, and Last contact. One module is listed: "freeFTPSERVICE.exe" with a description "Check if the process freeFTPSERVICE.exe is running". The status is "CRITICAL" and the last contact is "4 minutes 43 seconds".
- Full list of alerts:** Displays "No alerts found".
- Latest events for this agent:** Shows a table with columns: S. Type, Event name, Timestamp, and Status. One event is listed: "Module 'freeFTPSERVICE.exe' is going to CRITICAL (0)". The status is "CRITICAL".

The bottom status bar indicates "Pandora FMS v7.0NG 736 - Build PC190827 - MR 29" and "Running on 2025-03-23 16:43:31". The system clock shows "1:43 PM 3/23/2025".