Colby Heilner
Professor Torres
11/12
IT 120
Lab 11

# Part A: NETLAB Security+ v4: Identify and Analyze Network/Host NDS/IDS Alerts

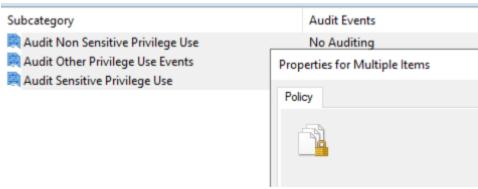
## **NETLAB IDS**

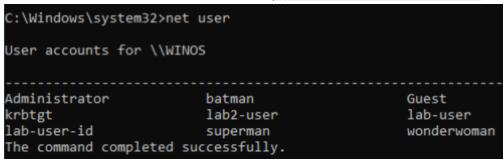
- Using the websites below, configure 10 logs against WinOSDomainController
  - Windows Audit Policies
- Links to an external site.
- Windows Event IDs

•

- o Links to an external site.
- Configure a shared folder Called Justice and add Superman, Batman, and Wonderwoman to the WinOS
  - Grant Wonderwoman access to the folder.
- Test the below activity to ensure logs are generated
  - o Log in with an invalid password on Superman and Batman
  - o Attempt to access the Justice folder as Batman
  - o Verify that logs are generated with Screenshots

While enabling these policies, I learned that you could configure multiple at once

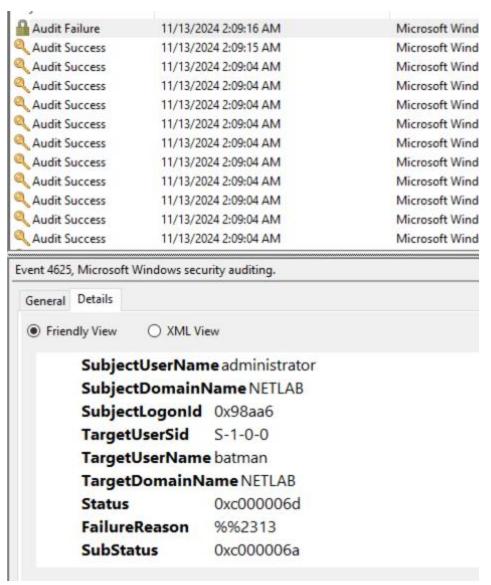




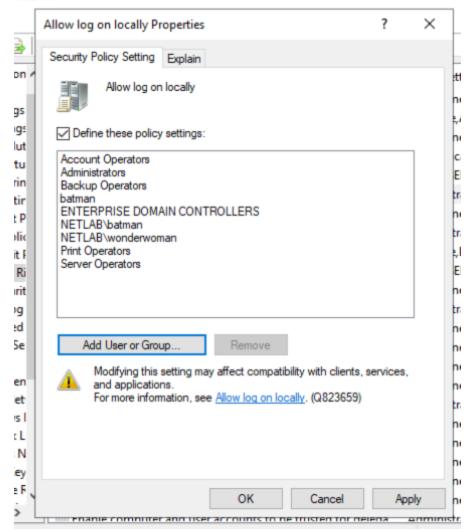
# Audit for my File share with wonderwoman

1	Reywords	Date and Time	Jource	Eventio	lask Category
	Audit Success	11/13/2024 2:07:20 AM	Microsoft Windows sec	5145	Detailed File Share
	Audit Success	11/13/2024 2:07:20 AM	Microsoft Windows sec	5145	Detailed File Share
	Audit Success	11/13/2024 2:07:20 AM	Microsoft Windows sec	5140	File Share

Here is a audit log for incorrect login.



Worth noting that you must configure this setting to allow new accounts to logon locally to a DC

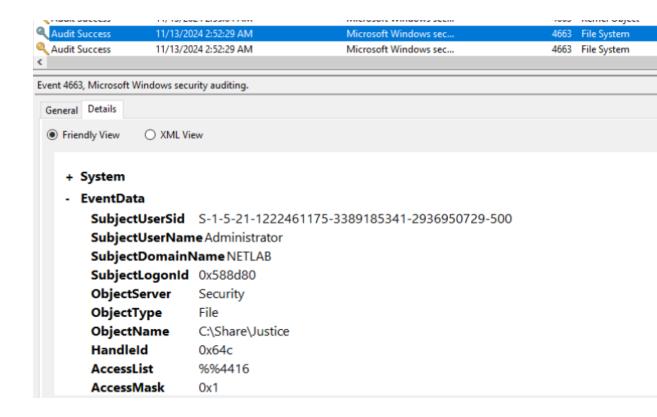


Batman failing to access folder

I was unable to generate failed to access object on the folder.

Not sure why but it has something to do with every time I try to access it also gives me a popup to login with admin to access it.

But could get these



### Part B:

- Log on to Security Onion
  - o open terminal, and become root
  - o run the command so-allow
  - Port Forward the pfSense logs to Security Onion (This is done on pfSense Gui)
  - Add the rules in Security Onion to allow access to the agents and the firewall
    - so-allow (three Windows agents, 2 Linux agents)
- Log on to the WindowsOS
  - o open the browser to 192.168.0.6, log on to Security Onion
  - Download and install Windows tools
- Log on to UbuntuSRV
  - o open the browser to 192.168.0.6, log on to Security Onion
  - Download and install Linux tools
- Due to an issue with Netlab, there is no way to test this environment.

Please provide enough screenshots and notes to show that you did the
work

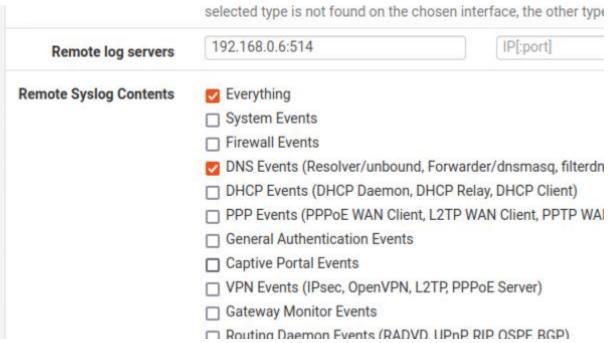
I copied the ips of the win and Linux machine onto a note pad and started opening all ports for the agents

```
File Edit View Search Terminal Help
                                                                        ubuntu
     Started: 04:26:31.659990
                                                                        172.16.1.10
    Duration: 951.415 ms
    Changes:
                                                                        192.168.0.50
Summary for local
Succeeded: 93 (changed=2)
Failed: 0
Total states run:
                    93
Total run time: 10.147 s
[root@seconion sysadmin]# so-allow
This program allows you to add a firewall rule to allow connections f
rom a new IP address.
Choose the role for the IP or Range you would like to add
[a] - Analyst - ports 80/tcp and 443/tcp
[b] - Logstash Beat - port 5044/tcp
[e] - Elasticsearch REST API - port 9200/tcp
[f] - Strelka frontend - port 57314/tcp
[o] - Osquery endpoint - port 8090/tcp
[s] - Syslog device - 514/tcp/udp
[w] - Wazuh agent - port 1514/tcp/udp
[p] - Wazuh API - port 55000/tcp
[r] - Wazuh registration service - 1515/tcp
Please enter your selection:
Enter a single ip address or range to allow (example: 10.10.10.10 or
10.10.0.0/16):
172.16.1.10
Adding 172.16.1.10 to the osquery_endpoint role. This can take a few
seconds
```

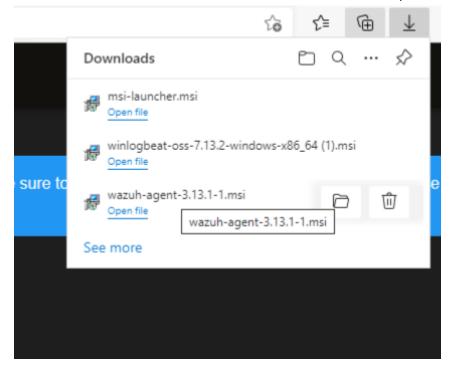
Windows agents

```
Enter a single ip address or range to allow (example: 10.10.10.10 or
10.10.0.0/16):
192.168.0.50
Adding 192.168.0.50 to the syslog role. This can take a few seconds
Adding 192.168.0.50 to the wazuh_agent role. This can take a few seco
nds
Already exists
^С
Exiting gracefully on Ctrl-c
[root@seconion sysadmin]# so-allow
This program allows you to add a firewall rule to allow connections f
rom a new IP address.
Choose the role for the IP or Range you would like to add
[a] - Analyst - ports 80/tcp and 443/tcp
[b] - Logstash Beat - port 5044/tcp
[e] - Elasticsearch REST API - port 9200/tcp
[f] - Strelka frontend - port 57314/tcp
[o] - Osquery endpoint - port 8090/tcp
[s] - Syslog device - 514/tcp/udp
[w] - Wazuh agent - port 1514/tcp/udp
[p] - Wazuh API - port 55000/tcp
[r] - Wazuh registration service - 1515/tcp
Please enter your selection:
Enter a single ip address or range to allow (example: 10.10.10.10 or
10.10.0.0/16):
192.168.0.50
Adding 192.168.0.50 to the osquery_endpoint role. This can take a few
seconds
```

### Pfsense Foward



Here are the windows files that I was able to install, and press KEEP.



#### Now Linux files,

```
http.js
                         package.json.1
                                            Public
                                                       Videos
                         package-lock.json
Documents Music
Downloads node modules Pictures
                                            Templates
sysadmin@ubuntusrv: $ cd Downloads/
sysadmin@ubuntusrv:~/Downloads$ ls
                  javascripts
sysadmin@ubuntusrv:~/Downloads$ dpkg -i wazuh-agent 3.13.1-1 amd64.deb
          r: requested operation requires superuser privilege
sysadmin@ubuntusrv:~/Downloads$ sudo dpkg -i wazuh-agent 3.13.1-1 amd64.deb
[sudo] password for sysadmin:
Selecting previously unselected package wazuh-agent.
(Reading database ... 170237 files and directories currently installed.)
Preparing to unpack wazuh-agent_3.13.1-1_amd64.deb ...
Unpacking wazuh-agent (3.13.1-1) ...
```

#### Part C:

- Review the videos on this link. The times and titles are listed below:
- Links to an external site.
- Intro to Security Onion (12:32)
- Installation part 1 (6:34)
- Installation part 2 (10:28)
- Intro to Analysis Tools (20:20)
- Updating (8:11)
- Alert Triage and Case Creation (16:11)
- Threat Hunting (17:20)
- Detection Engineering (16:19)
- Course Wrapup (5:01)
- About three and a half hours of Video
- After viewing the videos, review Netlab --> Security+v4-->Lab 08: Identifying and Analyzing Network/Host Intrusion Detection System (NIDS/HIDS) Alerts:
- Within this lab, kali scanned some targets, ran Wireshark, saved the pcap (packet data), and imported it into Security Onion for analysis.
- Does the analysis make sense? Can you follow along with the handout?

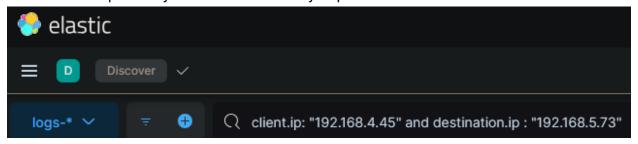
Yes, I am going to run my own nmap scan and capture it with wireshark. I will the import it and check it out on sec onion.

I copied over the pcap file to sec onion and had a permission error I fixed.

```
p cp /drives/c/Users/colby/Documents/nmap2.pcap admin@192.168.4.99:/home/admin/SecurityOnion/pcaps
UNAUTHORIZED ACCESS PROHIBITED
....
nmap2.pcap
mv: missing destination file operan
Try 'm∨ --help' for more informatio
[root@seconion pcaps]# m∨ nmap.pcap
mv: missing destination file operan
Try 'm∨ --help' for more informatio
[root@seconion pcaps]# ls
nmap.pcapng test
root@seconion pcaps1# ls
nmap2.pcap nmap.pcapng test
[root@seconion pcaps]#
```

# Here is my confirmation

I did a scan with 192.168.4.45, against 192.168.5.73 After importing and setting my filter to scr and dst respectively. I was able to see my imported traffic.



With a little learning of the filters, I was able to then view my port 80 Nmap connections

