



Task: 05

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Title - Networking and Security Operations with SIEM, Forensics, and Traffic Analysis

Objective

The goal of this task is to help you:

- Design and calculate a subnet for a small network.
- Analyze network traffic patterns using packet capture tools.
- Troubleshoot network protocol issues in a simulated environment.
- Set up a SIEM system using ELK Stack for log monitoring.
- Simulate an incident and perform network forensics to investigate it.
- Conduct threat hunting using network and log data.



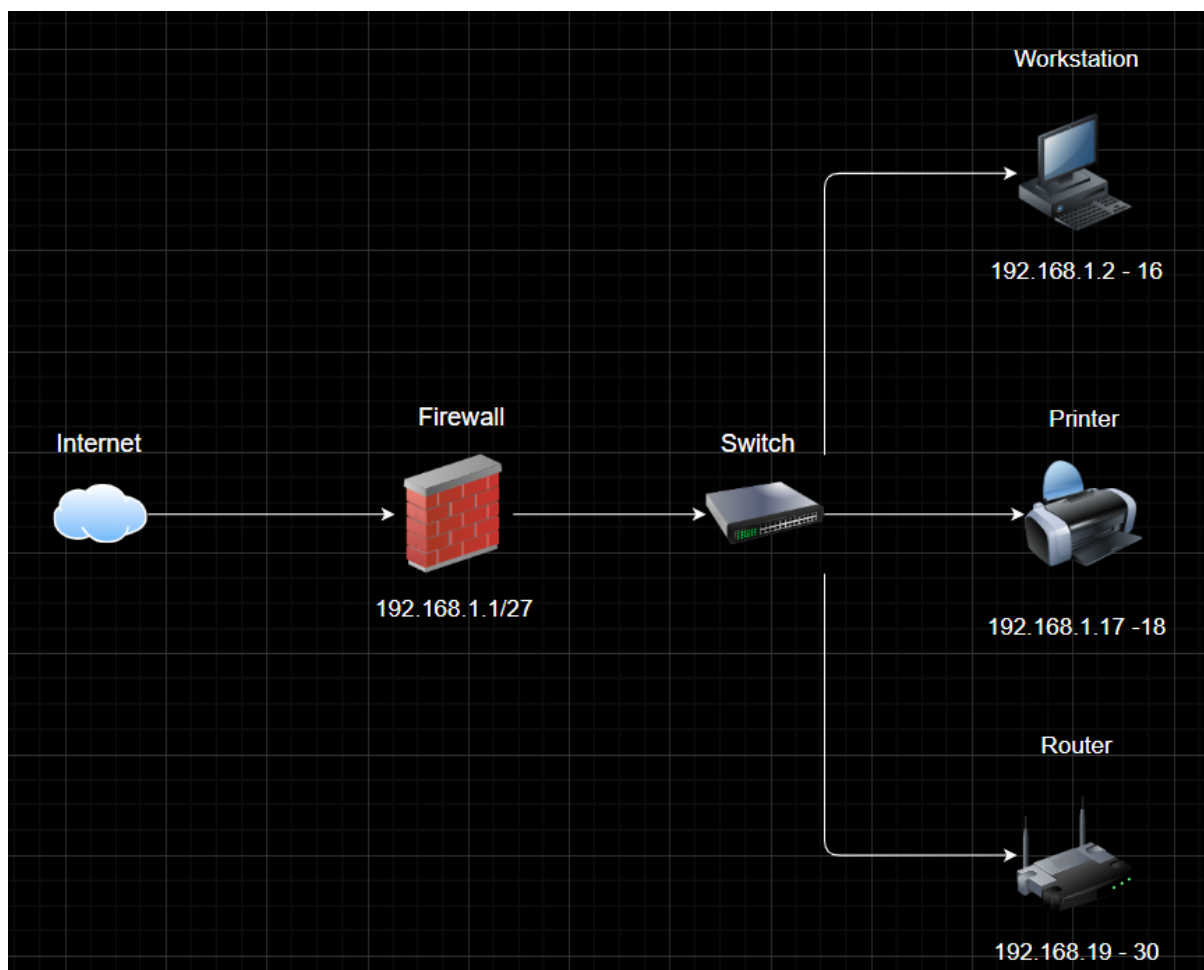
NETWORK SUBNET MASK

Range: **192.168.1.0/27**

Why: **32 addresses, 30 usable (enough for 20 devices)**

Subnet Mask: **255.255.255.224**

Broadcast: **192.168.1.31**





TRAFFIC ANALYSIS WITH WIRESHARK

1. TCP Conversations

Wireshark - Conversations - eth0

Conversation Settings: Name resolution, Absolute start time, Limit to display filter

Ethernet 15	IPv4 44	IPv6 7	TCP 65	UDP 755
Address A	Port A	Address B	Port B	Packets
192.168.40.128	32824	34.36.137.203	443	40
192.168.40.128	54466	34.36.137.203	443	22
192.168.40.128	54638	34.49.51.44	443	35
192.168.40.128	44950	34.107.221.82	80	16
192.168.40.128	54726	34.107.221.82	80	49
192.168.40.128	57716	34.107.221.82	80	32
192.168.40.128	34142	34.107.243.93	443	26
192.168.40.128	34150	34.107.243.93	443	21
192.168.40.128	52822	34.107.243.93	443	32
192.168.40.128	52830	34.107.243.93	443	34
192.168.40.128	59532	34.107.243.93	443	16
192.168.40.128	59540	34.107.243.93	443	17
192.168.40.128	34006	34.160.90.233	443	35
192.168.40.128	37242	34.160.144.191	443	56
192.168.40.128	46132	35.190.72.216	443	29
192.168.40.128	34544	44.228.17.114	443	21
192.168.40.128	34548	44.228.17.114	443	17
192.168.40.128	58654	74.125.200.84	443	30
192.168.40.128	43064	142.250.4.84	443	31
192.168.40.128	48172	142.250.67.78	443	34
192.168.40.128	48184	142.250.67.78	443	22
192.168.40.128	57608	142.250.67.78	443	45
192.168.40.128	41490	142.250.67.81	443	27
192.168.40.128	37708	142.250.76.78	443	30
192.168.40.128	54046	142.250.77.234	443	30
192.168.40.128	52272	142.250.182.42	443	39
192.168.40.128	51172	142.250.182.46	443	46
192.168.40.128	34510	142.250.193.42	443	27
192.168.40.128	34520	142.250.193.42	443	22
192.168.40.128	57230	142.250.193.97	443	25
192.168.40.128	40848	142.250.194.42	443	39
192.168.40.128	54448	142.251.12.84	443	31
192.168.40.128	51348	142.251.43.174	443	30
192.168.40.128	44630	142.251.223.100	443	19
192.168.40.128	44646	142.251.223.100	443	19

Copy, Follow Stream..., Graph...

Protocol: Bluetooth, BPV7, DCCP, Ethernet, FC, FDDI, IEEE 802.11, IEEE 802.15.4, IPv4, IPv6, JXTA, LTP, MPTCP, NCP, openSAFETY

Filter list for specific type

2. Protocol Hierarchy

Wireshark - Protocol Hierarchy Statistics - eth0

Protocol	Percent Packets	Packets	Percent Bytes	Bytes	Bits/s	End Packets	End Bytes	End Bits/s	PDU/s
Frame	100.0	6859	100.0	2323756	8,363	0	0	0	6859
Ethernet	100.0	6859	4.4	101214	364	0	0	0	6859
Internet Protocol Version 6	8.1	557	1.0	22896	82	0	0	0	557
User Datagram Protocol	6.6	455	0.2	3640	13	0	0	0	455
Multicast Domain Name System	3.8	264	0.4	8136	29	264	8136	29	264
Link-local Multicast Name Resolution	2.8	191	0.2	4236	15	191	4236	15	191
Internet Control Message Protocol v6	1.5	102	0.1	2528	9	102	2528	9	102
Internet Protocol Version 4	90.5	6208	5.4	124372	447	0	0	0	6208
User Datagram Protocol	57.5	3942	1.4	31536	113	0	0	0	3942
Simple Service Discovery Protocol	0.8	56	0.3	7672	27	56	7672	27	56
QUIC IETF	24.8	1704	56.1	1304653	4,695	1704	1278367	4,601	1774
NetBIOS Name Service	1.9	132	0.3	6600	23	132	6600	23	132
Multicast Domain Name System	3.8	264	0.4	8136	29	264	8136	29	264
Link-local Multicast Name Resolution	2.8	191	0.2	4236	15	191	4236	15	191
Dynamic Host Configuration Protocol	0.1	8	0.1	2346	8	8	2346	8	8
Domain Name System	23.1	1587	3.2	74541	268	1587	74541	268	1587
Transmission Control Protocol	31.1	2132	1.9	44200	159	1342	28400	102	2132
Transport Layer Security	10.8	739	23.2	539898	1,943	739	534250	1,922	743
Hypertext Transfer Protocol	0.7	51	1.0	22897	82	5	1550	5	51
Online Certificate Status Protocol	0.6	42	0.5	11662	41	42	11662	41	42
Line-based text data	0.1	4	0.0	32	0	4	32	0	4
Internet Group Management Protocol	0.8	53	0.0	888	3	53	888	3	53
Internet Control Message Protocol	1.2	81	0.2	5688	20	81	5688	20	81
Address Resolution Protocol	1.4	94	0.1	2632	9	94	2632	9	94

No display filter.

Close, Copy, Protocols, Help



TROUBLESHOOTING NETWORK ISSUES

Symptoms on Client

1. Ping Fails with **Unknown Hosts**

```
(root@kali)-[~]  
# ping -c 3 google.com  
ping: google.com: Temporary failure in name resolution
```

2. **Timeout** response

```
(root@kali)-[~]  
# dig @192.0.2.1 google.com +short  
;; communications error to 192.0.2.1#53: timed out  
;; communications error to 192.0.2.1#53: timed out  
;; communications error to 192.0.2.1#53: timed out  
  
; <<>> DiG 9.20.4-4-Debian <<>> @192.0.2.1 google.com +short  
; (1 server found)  
;; global options: +cmd  
;; no servers could be reached
```



Capturing DNS Traffic on Client interface

1. Finding Interface

Command Used: "ifconfig"

```
(root@kali)-[~]
# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.40.128 netmask 255.255.255.0 broadcast 192.168.40.255
    inet6 fe80::eb66:b4b:e9a1:623d prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:dd:cc:0e txqueuelen 1000 (Ethernet)
    RX packets 4289 bytes 1914868 (1.8 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 3628 bytes 560819 (547.6 KiB)
    TX errors 0 dropped 14 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 61 bytes 4612 (4.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 61 bytes 4612 (4.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

2. Capturing Traffic

Command Used: "tcpdump -i eth0 port 53 -w dns.pcap"

```
(root@kali)-[~]
# tcpdump -i eth0 port 53 -w dns.pcap
tcpdump: listening on eth0, link-type EN10MB (Ethernet), snapshot length 262144 bytes
^C15 packets captured
15 packets received by filter
0 packets dropped by kernel
```



3. Analysing pcap file in Wireshark

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.40.128	192.0.2.1	DNS	81	Standard query 0xadf2 A waa-pa.googleapis.com
2	0.000166	192.168.40.128	192.0.2.1	DNS	81	Standard query 0xf6cb AAAA waa-pa.googleapis.com
3	5.006608	192.168.40.128	192.0.2.1	DNS	81	Standard query 0xadf2 A waa-pa.googleapis.com
4	5.006925	192.168.40.128	192.0.2.1	DNS	81	Standard query 0xf6cb AAAA waa-pa.googleapis.com
5	10.023087	192.168.40.128	192.0.2.1	DNS	81	Standard query 0x63e6 A waa-pa.googleapis.com
6	10.023455	192.168.40.128	192.0.2.1	DNS	81	Standard query 0x0c42 AAAA waa-pa.googleapis.com
7	15.042782	192.168.40.128	192.0.2.1	DNS	81	Standard query 0x63e6 A waa-pa.googleapis.com
8	15.043036	192.168.40.128	192.0.2.1	DNS	81	Standard query 0x0c42 AAAA waa-pa.googleapis.com
9	17.242306	192.168.40.128	192.0.2.1	DNS	93	Standard query 0x8858 A google.com OPT
10	22.248979	192.168.40.128	192.0.2.1	DNS	93	Standard query 0x8858 A google.com OPT
11	27.255397	192.168.40.128	192.0.2.1	DNS	93	Standard query 0x8858 A google.com OPT
12	45.146491	192.168.40.128	192.0.2.1	DNS	70	Standard query 0xf901 A google.com
13	45.146740	192.168.40.128	192.0.2.1	DNS	70	Standard query 0x27c9 AAAA google.com
14	50.152206	192.168.40.128	192.0.2.1	DNS	70	Standard query 0xf901 A google.com
15	50.152463	192.168.40.128	192.0.2.1	DNS	70	Standard query 0x27c9 AAAA google.com

Frame 1: 81 bytes on wire (648 bits), 81 bytes captured (648 bits) on interface 0
Ethernet II, Src: VMware_d8:00:00:00:00:00, Dst: VMware_f7:07:f3:00:50:56:00:00
Internet Protocol Version 4, Src: 192.168.40.128, Dst: 192.0.2.1
User Datagram Protocol, Src Port: 60927, Dst Port: 53
Domain Name System (query)

Diagnosis

1. If DNS queries go to a non-responsive server or to the wrong IP → DNS misconfiguration.
2. If queries go out and replies exist but client still fails → check client firewall or caching.

Resolving Problem

1. Restoring `/etc/resolv.conf` to a valid resolver

```
(root@kali)-[~]
# bash -c 'echo "nameserver 8.8.8.8" > /etc/resolv.conf'

# cat /etc/resolv.conf
nameserver 8.8.8.8
```



2. Re-running the commands

Command 1: “dig google.com”

```
(root@kali)-[~]
# dig google.com

; <<>> DiG 9.20.4-4-Debian <<>> google.com
;; global options: +cmd
;; Got answer:
;; -->HEADER<-- opcode: QUERY, status: NOERROR, id: 54628
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags::; udp: 512
;; QUESTION SECTION:
;google.com.                IN      A

;; ANSWER SECTION:
google.com.                247     IN      A      142.251.223.142

;; Query time: 55 msec
;; SERVER: 8.8.8.8#53(8.8.8.8) (UDP)
;; WHEN: Sat Sep 27 06:48:13 EDT 2025
;; MSG SIZE rcvd: 55
```




SOC and Networking Integration

Installing Elasticsearch

1. Installing Dependencies

Command Used: “**apt update && sudo apt install apt-transport-https wget curl gnupg -y**”

```
(root@kali)-[~]
# sudo apt update && sudo apt install apt-transport-https wget curl gnupg -y
Hit:1 http://http.kali.org/kali kali-rolling InRelease
Get:2 https://artifacts.elastic.co/packages/8.x/apt stable InRelease [3,248 B]
Err:2 https://artifacts.elastic.co/packages/8.x/apt stable InRelease
  Sub-process /usr/bin/sqv returned an error code (1), error message is
: Missing key 46095ACC8548582C1A2699A9D27D666CD88E42B4, which is needed
to verify signature.
Get:3 https://artifacts.elastic.co/packages/7.x/apt stable InRelease [1,248 B]
```

2. Making a Key Location to save key of elasticsearch

Command Used: “**curl -fsSL https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo gpg --dearmor -o /usr/share/keyrings/elastic.gpg**”

```
(root@kali)-[~]
# curl -fsSL https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo gpg --dearmor -o /usr/share/keyrings/elastic.gpg
File '/usr/share/keyrings/elastic.gpg' exists. Overwrite? (y/N) y
```




3. Adding Elasticsearch APT repository

Command Used: **“echo “deb [signed-by=/usr/share/keyrings/elastic.gpg] https://artifacts.elastic.co/packages/8.x/apt stable main” | sudo tee /etc/apt/sources.list.d/elastic-8.x.list”**

```
(root@kali)-[~]
# echo "deb [signed-by=/usr/share/keyrings/elastic.gpg] https://artifacts.elastic.co/packages/8.x/apt stable main" | sudo tee /etc/apt/sources.list.d/elastic-8.x.list
deb [signed-by=/usr/share/keyrings/elastic.gpg] https://artifacts.elastic.co/packages/8.x/apt stable main
```

4. Updating Kali Packages

Command Used: **“sudo apt update”**

```
(root@kali)-[~]
# sudo apt update

Hit:1 http://http.kali.org/kali kali-rolling InRelease
Get:2 https://artifacts.elastic.co/packages/8.x/apt stable InRelease [3,248 B]
Get:3 https://artifacts.elastic.co/packages/7.x/apt stable InRelease [13.7 kB]
Err:3 https://artifacts.elastic.co/packages/7.x/apt stable InRelease
  Sub-process /usr/bin/sqv returned an error code (1), error message is:
  Missing key 46095ACC8548582C1A2699A9D27D666CD88E42B4, which is needed
  to verify signature.
Get:4 https://artifacts.elastic.co/packages/8.x/apt stable/main amd64 Packages [90.4 kB]
Warning: OpenPGP signature verification failed: https://artifacts.elastic.co/packages/7.x/apt stable InRelease: Sub-process /usr/bin/sqv returned an error code (1), error message is: Missing key 46095ACC8548582C1A2699A9D27D666CD88E42B4, which is needed to verify signature.
Error: The repository 'https://artifacts.elastic.co/packages/7.x/apt stable InRelease' is not signed.
```



5. Installing elasticsearch

Command Used : “**sudo apt install elasticsearch -y**”

```
(root@kali)-[~]
# sudo apt install elasticsearch -y

The following packages were automatically installed and are no longer required:
aspnetcore-runtime-6.0 python-matplotlib-data
aspnetcore-targeting-pack-6.0 python-odf-doc
avahi-utils python-odf-tools
base58 python-tables-data
comerr-dev python-tinycss2-common
cups-pk-helper python3-adblockparser
dnsmap python3-aiohappyeyeballs
dotnet-apphost-pack-6.0 python3-aiomultiprocess
```

6. Enabling services and starting elasticsearch

Command 1: “**systemctl enable elasticsearch**”

Command 2: “**systemctl start elasticsearch**”

```
(root@kali)-[~]
# systemctl enable elasticsearch
Created symlink '/etc/systemd/system/multi-user.target.wants/elasticsearch.service' → '/usr/lib/systemd/system/elasticsearch.service'.
```



7. Checking Status of elastic search

Command Used: **"systemctl status elasticsearch"**

```
(root@kali)-[~/CyArt Tasks/Task_02]
# systemctl status elasticsearch
● elasticsearch.service - Elasticsearch
   Loaded: loaded (/usr/lib/systemd/system/elasticsearch.service; en>
   Active: active (running) since Mon 2025-09-29 06:48:01 EDT; 12min>
  Invocation: 1ff64ddfc2bd4f9e900e7453cd0ccdef
     Docs: https://www.elastic.co
   Main PID: 11228 (java)
      Tasks: 104 (limit: 9148)
     Memory: 3.7G (peak: 4.3G, swap: 515.6M, swap peak: 515.6M)
        CPU: 9min 42.041s
    CGroup: /system.slice/elasticsearch.service
            └─11228 /usr/share/elasticsearch/jdk/bin/java -Xms4m -Xmx>
```

Installing logstash

1. Installing logstash

Command Used: **"apt install logstash -y"**

```
(root@kali)-[~/CyArt Tasks/Task_02]
# apt install logstash -y
logstash is already the newest version (1:8.19.4-1).
The following packages were automatically installed and are no longer r
equired:
  aspnetcore-runtime-6.0      python3-altgraph
  aspnetcore-targeting-pack-6.0  python3-aniso8601
```

2. Enabling and starting logstash services

Command 1: **"systemctl enable logstash"**

Command 2: **"systemctl start logstash"**

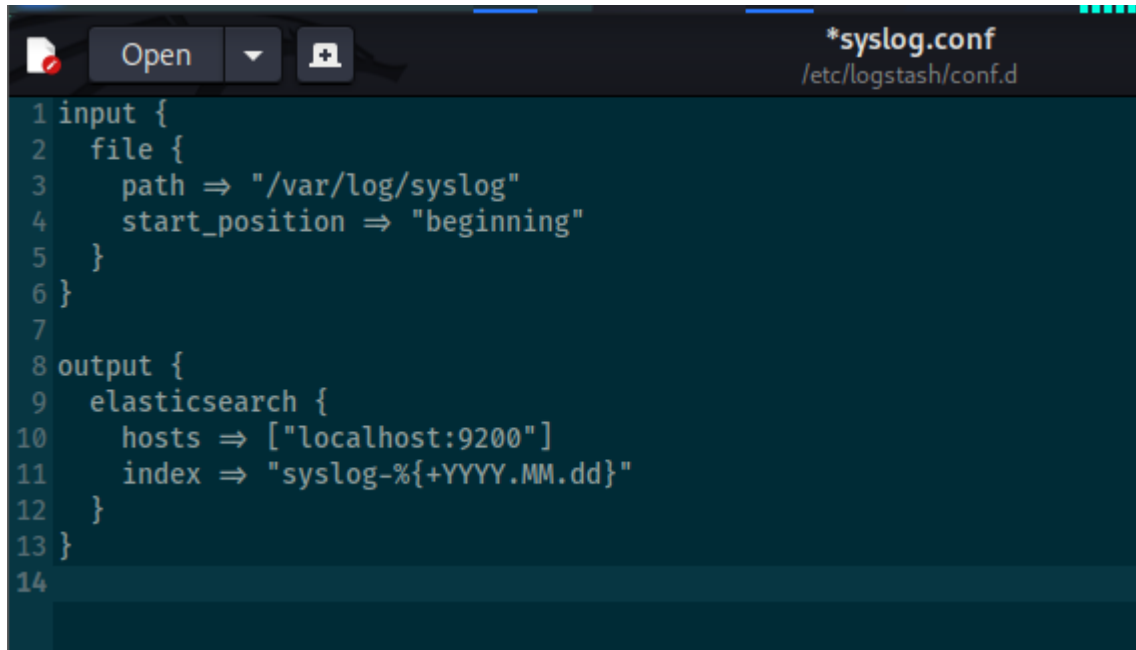
```
(root@kali)-[~/CyArt Tasks/Task_02]
# systemctl enable logstash

(root@kali)-[~/CyArt Tasks/Task_02]
# systemctl start logstash
```



3. Configuring logstash to collect logs

Command Used: **"nano /etc/logstash/conf.d/syslog.conf"**

A screenshot of the nano text editor showing the configuration for logstash to collect syslog logs. The editor has a dark theme. The top bar shows the file name '*syslog.conf' and the path '/etc/logstash/conf.d'. The configuration is as follows:

```
1 input {
2   file {
3     path => "/var/log/syslog"
4     start_position => "beginning"
5   }
6 }
7
8 output {
9   elasticsearch {
10    hosts => ["localhost:9200"]
11    index => "syslog-%{+YYYY.MM.dd}"
12  }
13 }
14
```

4. Restarting service

Command Used: **"systemctl restart logstash"**

A screenshot of a terminal window showing the command to restart the logstash service. The prompt is '(root@kali)-[~/CyArt Tasks/Task_02]'. The command entered is '# systemctl restart logstash'.

```
(root@kali)-[~/CyArt Tasks/Task_02]
# systemctl restart logstash
```



Installing Kibana

1. Installing Kibana

Command Used: “**apt install kibana -y**”

```
(root@kali)-[~/CyArt Tasks/Task_02]
# apt install kibana -y
The following packages were automatically installed and are no longer required:
aspnetcore-runtime-6.0      python3-altgraph
aspnetcore-targeting-pack-6.0 python3-aniso8601
avahi-utils                 python3-annotated-types
base58                     python3-antlr4
comerr-dev                  python3-backoff
cups-pk-helper              python3-base58
python3-kibana
```

2. Enabling and starting Kibana services

Command 1: “systemctl enable kibana”

Command 2: “systemctl start kibana”

```
(root@kali)-[~/CyArt Tasks/Task_02]
# systemctl enable kibana
Created symlink '/etc/systemd/system/multi-user.target.wants/kibana.service' → '/usr/lib/systemd/system/kibana.service'.

(root@kali)-[~/CyArt Tasks/Task_02]
# systemctl start kibana
```



SIMULATING AN INCIDENT

1. Capturing traffic from tcpdump

Command Used: **"tcpdump -i eth0 -w attack_capture.pcap"**

```
(root@kali)-[~/CyArt Tasks/Task_02]
# tcpdump -i eth0 -w attack_capture.pcap
tcpdump: listening on eth0, link-type EN10MB (Ethernet), snapshot length 262144 bytes
```

2. Unauthorized SSH login attempt

Command Used: **"ssh nonexistent@localhost"**

```
(root@kali)-[~/CyArt Tasks/Task_02]
# ssh nonexistent@localhost
ssh: connect to host localhost port 22: Connection refused

(root@kali)-[~/CyArt Tasks/Task_02]
#
```

3. DoS Attack by hping3

Command Used: **"hping3 -S -p 22 -c 1000 192.168.40.128"**

```
(root@kali)-[~/CyArt Tasks/Task_02]
# hping3 -S -p 22 -c 1000 192.168.40.128
HPING 192.168.40.128 (eth0 192.168.40.128): S set, 40 headers + 0 data bytes
^C
— 192.168.40.128 hping statistic —
105 packets transmitted, 0 packets received, 100% packet loss
round-trip min/avg/max = 0.0/0.0/0.0 ms
```

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2. IP Filtration

Filter Used: "ip.src == 192.168.40.128"

ip.src == 192.168.40.128										
No.	Time	Source	Destination	Protocol	Length	Info				
86	172.818216	192.168.40.128	192.168.40.1	TCP	54	5601 → 61435	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
88	173.084214	192.168.40.128	192.168.40.1	TCP	54	5601 → 61436	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
90	173.333482	192.168.40.128	192.168.40.1	TCP	54	5601 → 61435	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
92	173.599596	192.168.40.128	192.168.40.1	TCP	54	5601 → 61436	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
94	173.834565	192.168.40.128	192.168.40.1	TCP	54	5601 → 61435	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
96	174.100862	192.168.40.128	192.168.40.1	TCP	54	5601 → 61436	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
98	174.344763	192.168.40.128	192.168.40.1	TCP	54	5601 → 61435	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
100	174.606021	192.168.40.128	192.168.40.1	TCP	54	5601 → 61436	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
102	174.940998	192.168.40.128	192.168.40.1	TCP	54	5601 → 61435	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
104	175.119063	192.168.40.128	192.168.40.1	TCP	54	5601 → 61436	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
106	176.095219	192.168.40.128	192.168.40.1	TCP	54	5601 → 61440	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
108	176.316009	192.168.40.128	192.168.40.1	TCP	54	5601 → 61441	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
110	176.599501	192.168.40.128	192.168.40.1	TCP	54	5601 → 61440	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
112	176.817591	192.168.40.128	192.168.40.1	TCP	54	5601 → 61441	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
114	177.117300	192.168.40.128	192.168.40.1	TCP	54	5601 → 61440	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
116	177.320921	192.168.40.128	192.168.40.1	TCP	54	5601 → 61441	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
118	177.618274	192.168.40.128	192.168.40.1	TCP	54	5601 → 61440	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
120	177.889913	192.168.40.128	192.168.40.1	TCP	54	5601 → 61441	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
124	178.122055	192.168.40.128	192.168.40.1	TCP	54	5601 → 61440	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
126	178.413976	192.168.40.128	192.168.40.1	TCP	54	5601 → 61441	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
130	183.151635	192.168.40.128	192.168.40.1	TCP	54	5601 → 61442	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
132	183.409212	192.168.40.128	192.168.40.1	TCP	54	5601 → 61443	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
134	183.660515	192.168.40.128	192.168.40.1	TCP	54	5601 → 61442	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
136	183.881260	192.168.40.128	192.168.40.1	TCP	54	5601 → 61444	[RST, ACK]	Seq=1	Ack=1	Win=0 Len=0
Frame 86: 54 bytes on wire (432 bits), 54 bytes captured (432 bits)										
Ethernet II, Src: VMware_dd:cc:0e (00:0c:29:dd:cc:0e), Dst: VMware_c0:00:08 (00:50:56:c0:00:08)										
Internet Protocol Version 4, Src: 192.168.40.128, Dst: 192.168.40.1										
Transmission Control Protocol, Src Port: 5601, Dst Port: 61435, Seq: 1, Ack: 1, Len: 0										
							0000	00 50 56 c0 00 08 00		
							0010	00 28 00 00 40 00 40		
							0020	28 01 15 e1 ef fb 00		
							0030	00 00 40 dd 00 00		