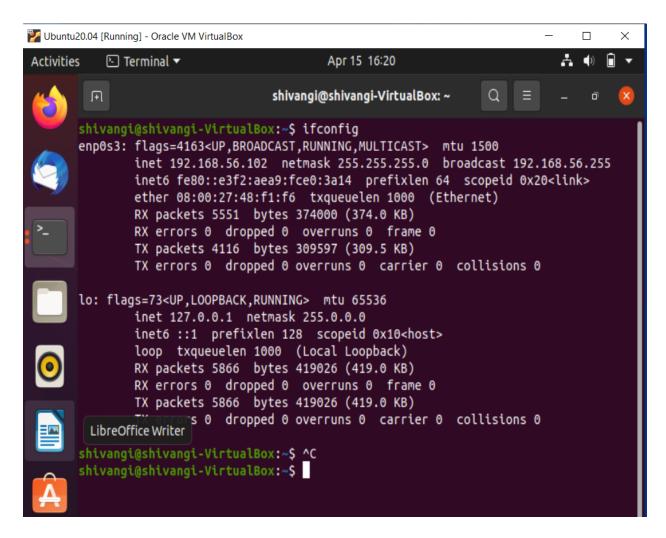
## TOPIC: NETWORK INTRUSION DETECTION AND PREVENTION USING SNORT TOOL

Concept - attack from ubuntu system to kali linux Snort tool installed on kali linux

#### ifconfig command on ubuntu



ifconfig command on kali linux

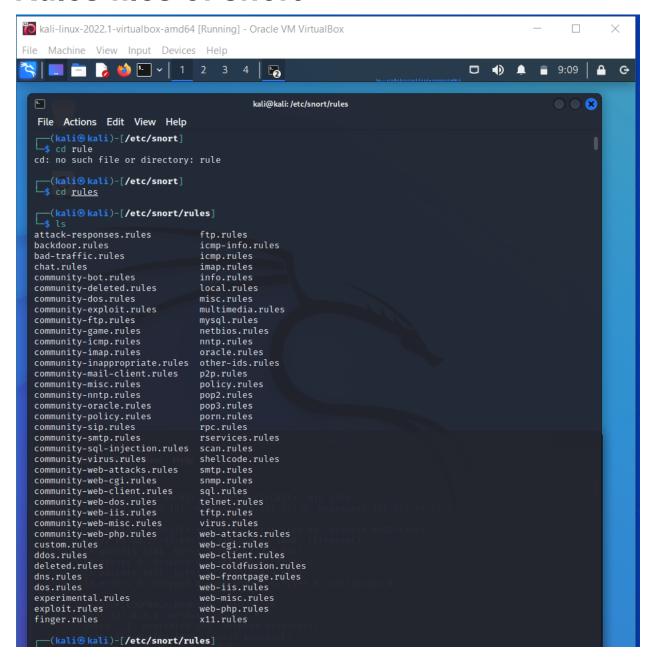
```
kali-linux-2022.1-virtualbox-amd64 [Running] - Oracle VM VirtualBox
                                                                                                                                X
File Machine View Input Devices Help
                                                                                                        9:01
                                                                                 Section Additionary
                                                                                                                                        8
                                                        kali@kali: /etc/snort/rules
    File Actions Edit View Help
   Command 'iconfig' not found, did you mean:
command 'iconfig' from deb ipmiutil
command 'ifconfig' from deb net-tools
command 'iwconfig' from deb wireless-tools
   Try: sudo apt install <deb name>
      —(kali⊕kali)-[~]
   $ ifconfig
   eth0: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 1500
             inet 192.168.56.101 netmask 255.255.255.0 broadcast 192.168.56.25
             inet6 fe80::a00:27ff:fe95:bd54 prefixlen 64 scopeid 0×20<link>
             ether 08:00:27:95:bd:54 txqueuelen 1000 (Ethernet)
RX packets 2281 bytes 177540 (173.3 KiB)
             RX errors 0 dropped 0 overruns 0 frame 0 TX packets 2033 bytes 123812 (120.9 KiB)
             TX errors 0 dropped 0 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 0×10<host>
             loop txqueuelen 1000 (Local Loopback)
RX packets 0 bytes 0 (0.0 B)
             RX errors 0 dropped 0 overruns 0 frame 0 TX packets 0 bytes 0 (0.0 B)
             TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

#### Setting up of snort tool on kali linux —-----

### Validating settings of snort

Your Snort should now be ready to run. Test the configuration using the parameter -T to enable test mode.

#### Rules files of snort-



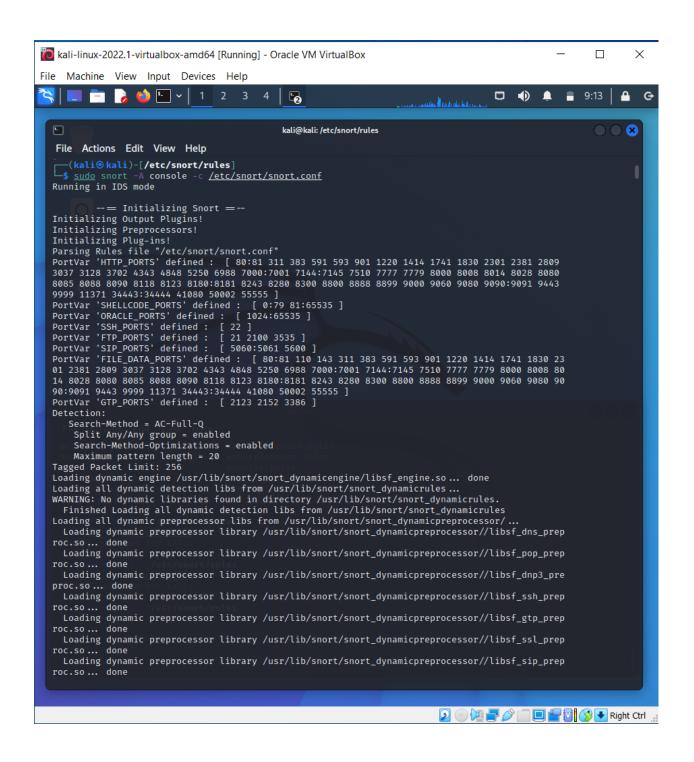
# Exploring the local rules file and adding our custom rules to detect attack on kali

```
File Actions Edit View Help

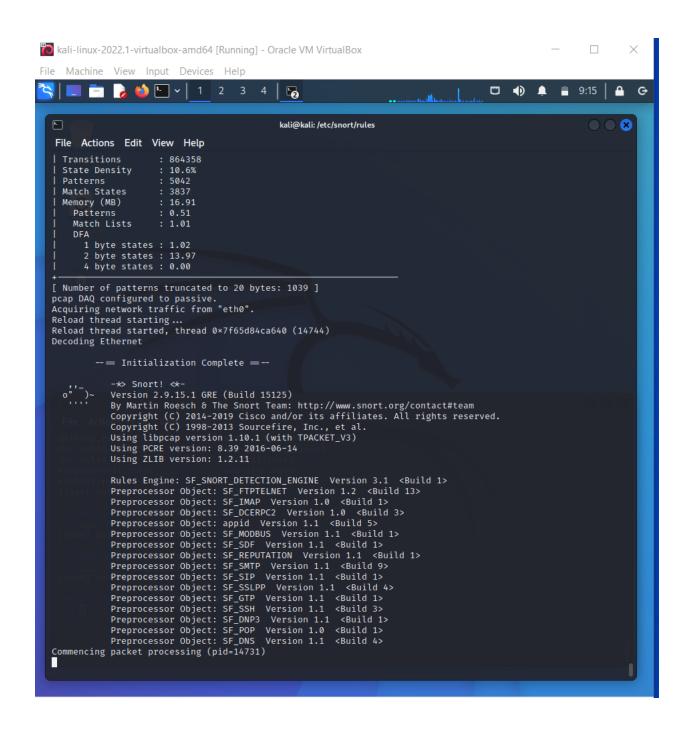
GNU nano 6.0

$\frac{1}{2}\text{Stort} \text{Pick | Snort/rules}} \text{ | Snort/rules | Stort |
```

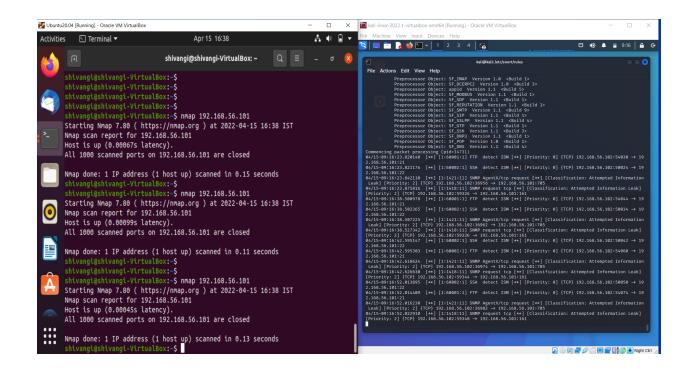
#### Running the snort in IDS mode



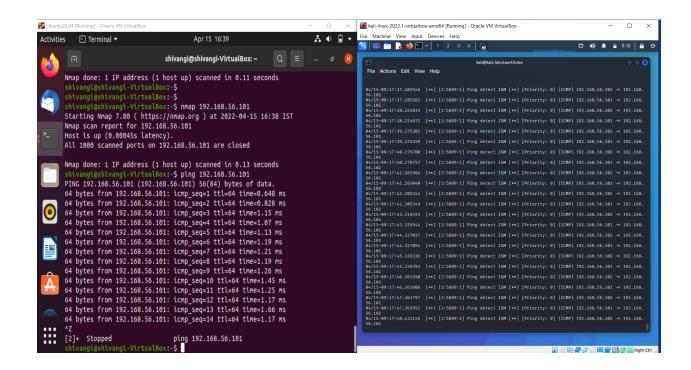
# Before running of nmap attack from ubuntu side



#### After nmap command



# Pinging on kali system from ubuntu system



# Making necessary HOME\_NET changes in snort.conf file

