

# local.rules

```
# =====
# Custom Snort IPS Rules
# Graduation Project
# =====

# 1. Block ICMP Ping
drop icmp any any -> any any (
    msg:"PING BLOCKED";
    sid:1000001;
    rev:1;
)

# 2. Detect Nmap SYN Scan
drop tcp any any -> any any (
    flags:S;
    msg:"NMAP SYN SCAN DETECTED";
    sid:1000002;
    rev:1;
)

# 3. Detect Nmap OS Detection
alert tcp any any -> any any (
    ttl: < 64;
    msg:"NMAP OS DETECTION ATTEMPT";
    sid:1000003;
    rev:1;
)

# 4. Block Telnet Access
drop tcp any any -> any 23 (
    msg:"TELNET ACCESS BLOCKED";
    sid:1000004;
    rev:1;
)

# 5. SSH Brute Force / Scan Detection
alert tcp any any -> any 22 (
    flow:to_server,established;
    msg:"SSH CONNECTION ATTEMPT DETECTED";
    sid:1000005;
    rev:1;
)
```

## **snort\_commands**

```
# Check Snort Version  
snort -V  
  
# Test configuration file  
sudo snort -T -c /etc/snort/snort.lua  
  
# Run Snort as IPS (Inline Mode)  
sudo snort -Q \  
--daq afpacket \  
-i eth0:eth1 \  
-c /etc/snort/snort.lua \  
-A alert_fast  
  
# Alternative (Bridge Interface)  
sudo snort -Q \  
--daq afpacket \  
-i br0 \  
-c /etc/snort/snort.lua \  
-A alert_fast
```

The screenshot displays a Kali Linux desktop environment with several open windows. At the top, there are two terminal windows titled 'Ethical-Hacker-Kali [Running] - Oracle VirtualBox'. The left terminal shows the results of an Nmap scan against a target IP, listing numerous ports from 1-65535 as closed. The right terminal shows the results of a ping test, indicating 5 packets transmitted, 0 received, and 100% packet loss. Below these are two more terminal windows, both titled 'kali@Kali: ~'. The left one is a standard terminal session, while the right one is a root shell. In the bottom left corner, there is a large, semi-transparent watermark of a dragon logo. The desktop background features a dark, abstract design.

