2 Snort Cheat Sheet for SOC (1)

Reference ⇒ https://upcloud.com/resources/tutorials/install- snort-ubuntu/

What is Snort?

Snort is a Network Intrusion Detection System (NIDS) used to detect and log malicious network traffic.

Important Snort Files

Path	Purpose
/etc/snort/snort.conf	Main config file
/etc/snort/rules/local.rules	Custom user rules
/etc/snort/rules/	All rule files stored here
/var/log/snort/	Logs, alerts, and packet captures

Snort Operating Modes

Mode	Command	Use
Sniffer	snort -i eth0	Shows packets in real-time
Packet Logger	snort -i eth0 -l /var/log/snort/	Saves traffic logs
NIDS (Detection)	snort -c /etc/snort/snort.conf -i eth0	Uses rules to alert

Basic Snort Commands

Task	Command	
Test config	snort -T -c /etc/snort/snort.conf	
Run in alert mode	snort -A console -q -i eth0 -c /etc/snort/snort.conf	
Read PCAP	snort -r file.pcap -c /etc/snort/snort.conf	

Save pcap	tcpdump -i eth0 -w out.pcap	
Analyze pcap	snort -r out.pcap -c /etc/snort/snort.conf	-q -A console

∠ How to Write a Custom Rule

Rule format:

```
css
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alert <protocol> <src_ip> <src_port> → <dst_ip> <dst_port> (msg:"messag
e"; content:"text"; sid:id; rev:rev;)
```

Example rule (detect HTTP GET):

```
snort
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alert tcp $HOME_NET any → $EXTERNAL_NET $HTTP_PORTS (
    msg:"HTTP GET Detected";
    flow:to_server,established;
    content:"GET "; http_method;
    sid:1001; rev:1;
)
```

- Save it to: /etc/snort/rules/local.rules
- Restart Snort after rule update.

■ SOC Real-World Flow

1. Capture packet

tcpdump -i eth0 -w suspicious.pcap

2. Analyze pcap with Snort

snort -r suspicious.pcap -c /etc/snort/snort.conf

3. Write rule in local rules

4. Restart Snort and monitor

snort -A console -q -i eth0 -c /etc/snort/snort.conf

Tips for SOC

- Focus on HTTP, FTP, DNS, SSH traffic.
- Regularly **tune rules** to reduce false positives.
- Keep an eye on **outbound traffic** (data exfiltration).
- Combine with SIEM (like Splunk) for alert correlation.