Explanation:

```
sudo iptables -t filter -F
sudo iptables -t mangle -F
sudo iptables -t mangle -X
sudo iptables -t raw -X
sudo iptables -A INPUT -s f1.com -j ACCEPT # found in Lecture 18 Page 26
sudo iptables -t nat -A POSTROUTING -j MASQUERADE # found in Lecture 18 Page 65
sudo iptables -A FORWARD -p tcp --tcp-flags SYN,ACK,FIN,RST SYN -m limit --limit 1/s -j ACCEPT # found in Lecture 18 Page 53
sudo iptables -A FORWARD -p tcp --syn -m limit --limit 1/s --limit-burst 500 -j ACCEPT # found in Lecture 18 Page 53
  6. Write a rule to allow full loopback access on your machine i.e. access using localhost (Hint: You will need two rules, one for the INPUT chain and one the OUTPUT chain on the FILTER table. The interface is 'lo'.)
sudo iptables -A INPUT -i lo -j ACCEPT \# found and modified based on Lecture 18 Page 66 sudo iptables -A OUTPUT -o lo -j ACCEPT
sudo iptables -t nat -A PREROUTING -p tcp --dport 8888 -j DNAT --to-destination 127.0.0.0:25565 # found in Lecture 18 Page 54
sudo iptables -A OUTPUT -p tcp -d 128.46.104.20 --dport 22 -m state --state NEW, ESTABLISHED -j ACCEPT # found and modified in Lecture 18 Page 27 sudo iptables -A INPUT -p tcp -s 128.46.104.20 --sport 22 -m state --state ESTABLISHED -j ACCEPT
sudo iptables -A INPUT -j DROP
sudo iptables -A FORWARD - i DROP
```

Output:

```
Chain INPUT (policy ACCEPT)
target prot opt source destination
ACCEPT all -- 67.199.248.13 anywhere
ACCEPT all -- 67.199.248.12 anywhere
ACCEPT all -- anywhere anywhere
ACCEPT tcp -- 128.46.104.20 anywhere
tcp spt:ssh state ESTABLISHED
DROP all -- anywhere anywhere

Chain FORWARD (policy ACCEPT)
target prot opt source destination
ACCEPT tcp -- anywhere anywhere
tcp flags:FIN,SYN,RST,ACK/SYN limit: avg 1/sec burst 5
ACCEPT tcp -- anywhere anywhere
tcp flags:FIN,SYN,RST,ACK/SYN limit: avg 1/sec burst 500
DROP all -- anywhere anywhere
Chain OUTPUT (policy ACCEPT)
target prot opt source destination
ACCEPT all -- anywhere anywhere
ACCEPT tcp -- anywhere anywhere
```