

Lab Exercise - Linux Firewall

- This is an individual lab exercise, and not graded.
- The due date and time is tonight.
- Change the file name following the usual naming convention.

Part 1 – Background on iptables

- Read the attached tutorials for details.
 - “IPTABLES Tutorial V1-3.pdf”
 - “iptables-091013105120-phpapp02.pdf”
- View the following video for the lab exercise below.
https://www.youtube.com/watch?v=eC8scXX1_1M

Part 2 – Basic Commands & Use

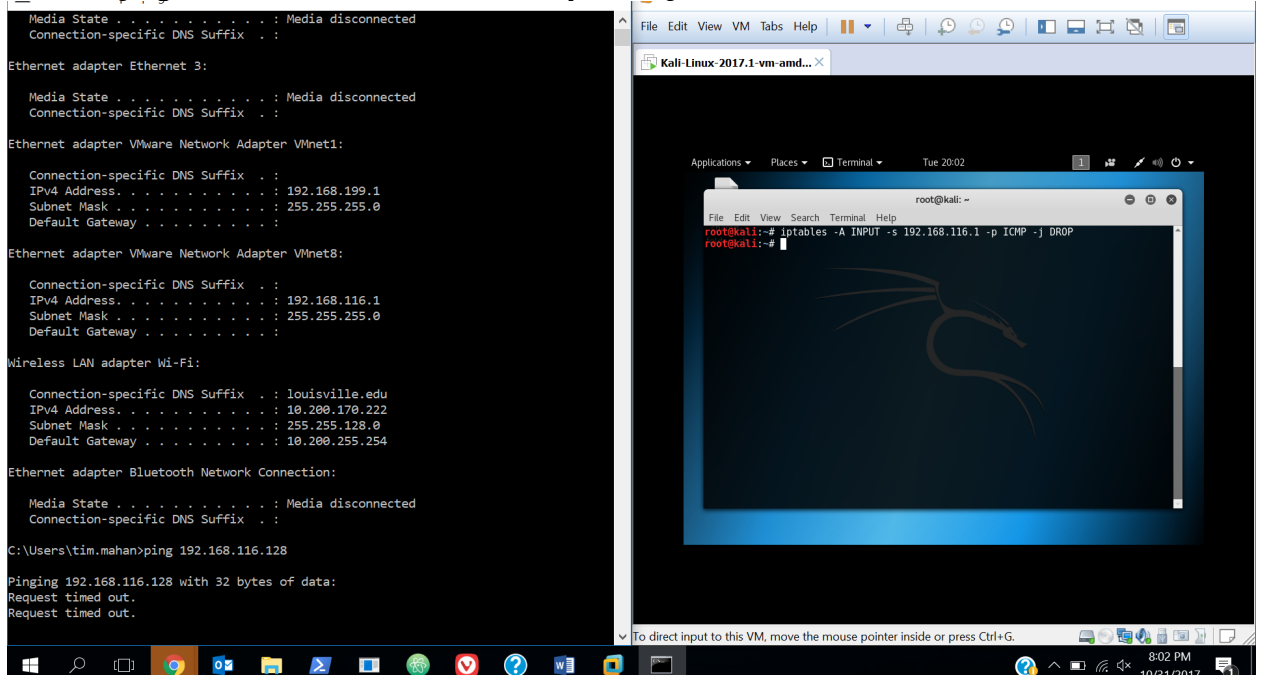
- Basic commands to manage rules
- | | |
|-----------------------|--|
| # iptables -A | Append to chain. |
| # iptables -F | Delete all rules in chain or all chains. |
| # iptables -L | List the rules in a chain or all chains. |
| # iptables -X [chain] | Delete a user-defined chain. |

Part 3 – Exploring iptables

- 1) Determine the IP address of the host by using ipconfig.
- 2) Start the VMware Kali Linux guest and log in.
- 3) Determine the IP address of the Kali by using ifconfig.
- 4) On the Kali, enter the following command to list all the firewall rules: iptables -L
- 5) Provide a screenshot of your output.

```
root@kali: ~  
File Edit View Search Terminal Help  
root@kali:~# iptables -L  
Chain INPUT (policy ACCEPT)  
target    prot opt source                destination  
  
Chain FORWARD (policy DROP)  
target    prot opt source                destination  
  
Chain OUTPUT (policy ACCEPT)  
target    prot opt source                destination  
root@kali:~#
```

- 6) On the Kali, create a rule that blocks the ping requests from the host.
- 7) On the host, ping the Kali and take a screenshot of your output.



- 8) On the Kali, enter the following command to delete all the firewall rules: iptables -F
- 9) On the Kali, create a rule that blocks only the ping requests from the Kali.
- 10) On the Kali, ping www.cnn.com and take a screenshot of your output.

