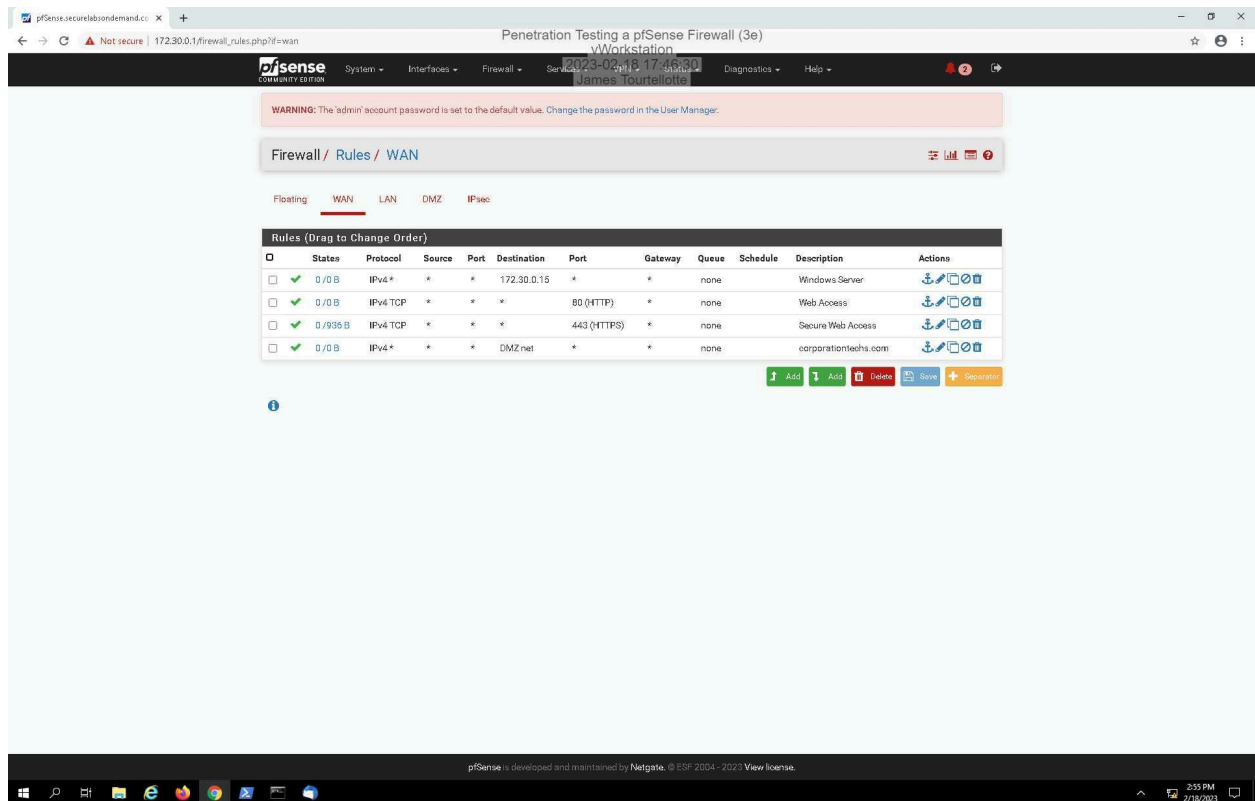


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## Lab 10: Penetration Testing a Firewall

### Lab #10 Screen Captures

#### Screen Capture 1, Section 1:



## Section 1 Screen Capture 2:

The screenshot displays the Nessus Essentials web interface in a browser window. The address bar shows the URL `https://localhost:8834/#/scans/reports/5/hosts`. The page title is "Penetration Testing a pfSense Firewall (3e)". The interface includes a sidebar with navigation options like "My Scans", "All Scans", "Trash", "Policies", "Plugin Rules", "Scanners", "Community", and "Research".

The main content area shows a scan titled "TourtellottePenTest" with a "Back to My Scans" link. Below the title, there are tabs for "Hosts" (2), "Vulnerabilities" (66), "Notes" (1), and "History" (1). The "Hosts" tab is active, displaying a table of hosts with their IP addresses and vulnerability counts. The table has columns for "Host", "Vulnerabilities", and a progress bar. The data is as follows:

Host	Vulnerabilities
202.20.1.3	10
202.20.1.1	15

On the right side of the interface, there is a "Scan Details" section with the following information:

- Policy: Basic Network Scan
- Status: Completed
- Scanner: Local Scanner
- Start: Today at 3:00 PM
- End: Today at 3:08 PM
- Elapsed: 8 minutes

Below the scan details is a "Vulnerabilities" section featuring a donut chart and a legend. The legend indicates the following categories:

- Critical (Red)
- High (Orange)
- Medium (Yellow)
- Low (Green)
- Info (Blue)

The donut chart shows a distribution of vulnerabilities across these categories, with a significant portion being "Info" (blue) and "Low" (green).

## Section 1 Screen Capture 3:

Nessus Essentials / Folders / ... X

Penetration Testing a pfSense Firewall (3e)  
RemoteWindows01  
2023-02-18 18:02:44  
James Tourtellotte

Administrator

TourtellottePenTest  
Back to My Scans

Hosts: 2 Vulnerabilities: 66 Notes: 1 History: 1

Filter Search Vulnerabilities 66 Vulnerabilities

Sev	Name	Family	Count		
MEDIUM	SSL Certificate Cannot be Trusted	General	2		
MEDIUM	SSL Self-Signed Certificate	General	2		
MEDIUM	jQuery 1.2 < 3.5.0 Multiple XSS	CGI abuses : XSS	1		
MEDIUM	Microsoft Windows Remote Desktop Protocol Server Man-in-the-Middle Weakness	Windows	1		
MEDIUM	SMB Signing not required	Misc.	1		
MEDIUM	SSL Certificate Expiry	General	1		
MEDIUM	SSL Medium Strength Cipher Suites Supported (DHEET32)	General	1		
MEDIUM	Terminal Services Doesn't Use Network Level Authentication (NLA) Only	Misc.	1		
MEDIUM	Terminal Services Encryption Level is Medium or Low	Misc.	1		
MEDIUM	TLS Version 1.0 Protocol Detection	Service detection	1		
LOW	Terminal Services Encryption Level is not FIPS-140 Compliant	Misc.	1		
INFO	Nessus SYN scanner	Port scanners	14		
INFO	DCE Services Enumeration	Windows	10		
INFO	Service Detection	Service detection	10		
INFO	HTTP Server Type and Version	Web Servers	3		
INFO	HyperText Transfer Protocol (HTTP) Information	Web Servers	3		
INFO	Common Platform Enumeration (CPE)	General	2		
INFO	Device Type	General	2		
INFO	DNS Server Detection	DNS	2		

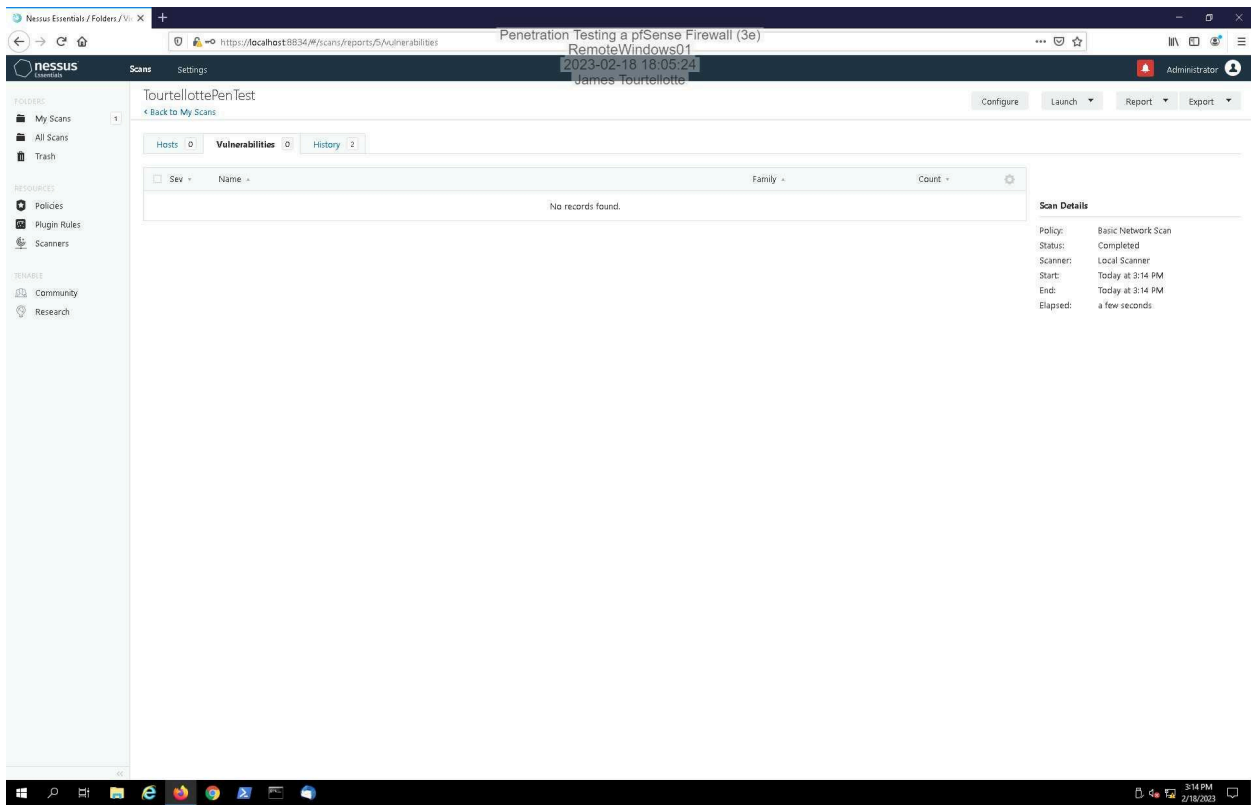
**Scan Details**

Policy: Basic Network Scan  
Status: Completed  
Scanner: Local Scanner  
Start: Today at 3:00 PM  
End: Today at 3:08 PM  
Elapsed: 8 minutes

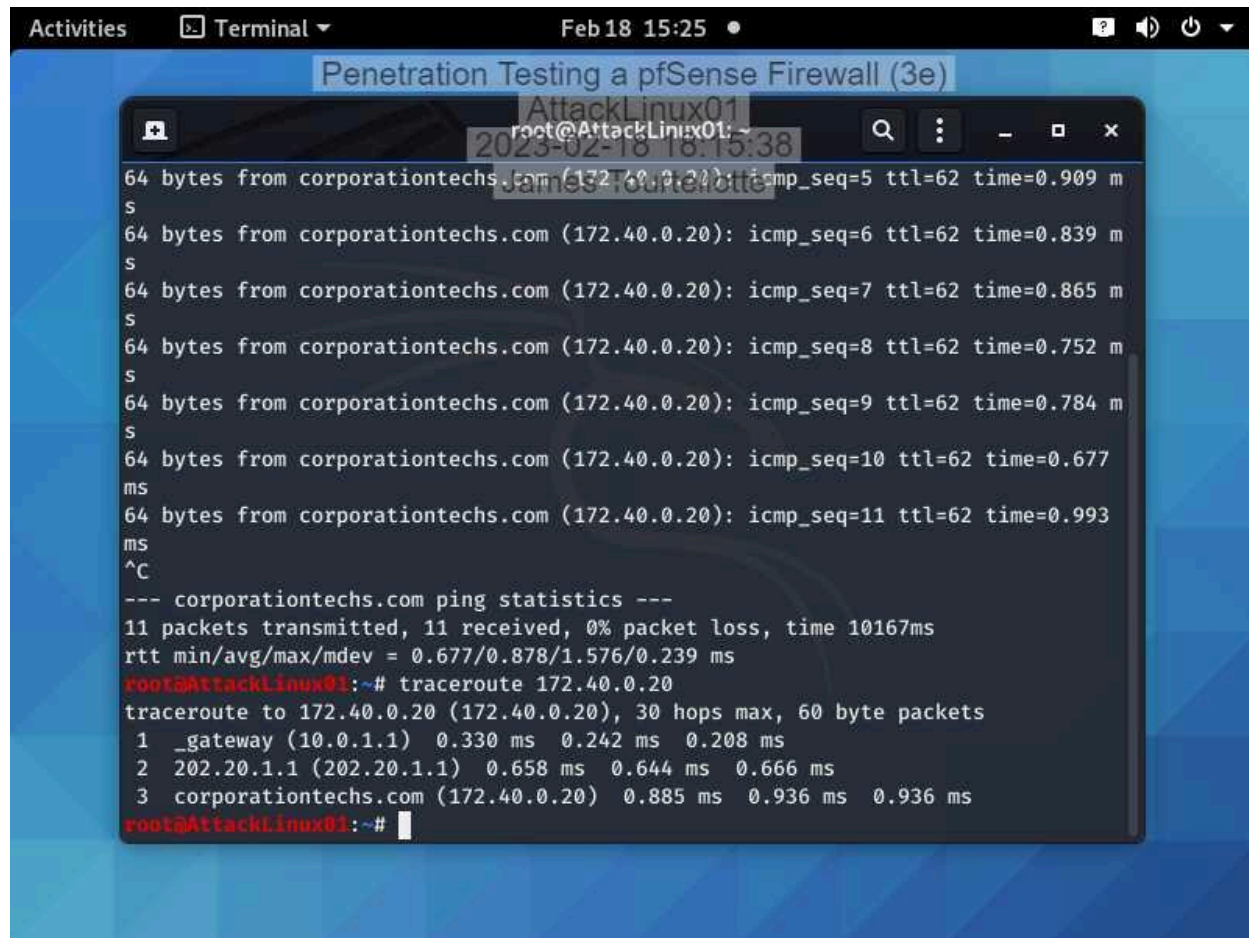
**Vulnerabilities**

1 Critical  
14 High  
10 Medium  
3 Low  
3 Info

Section 1 Screen Capture 4:



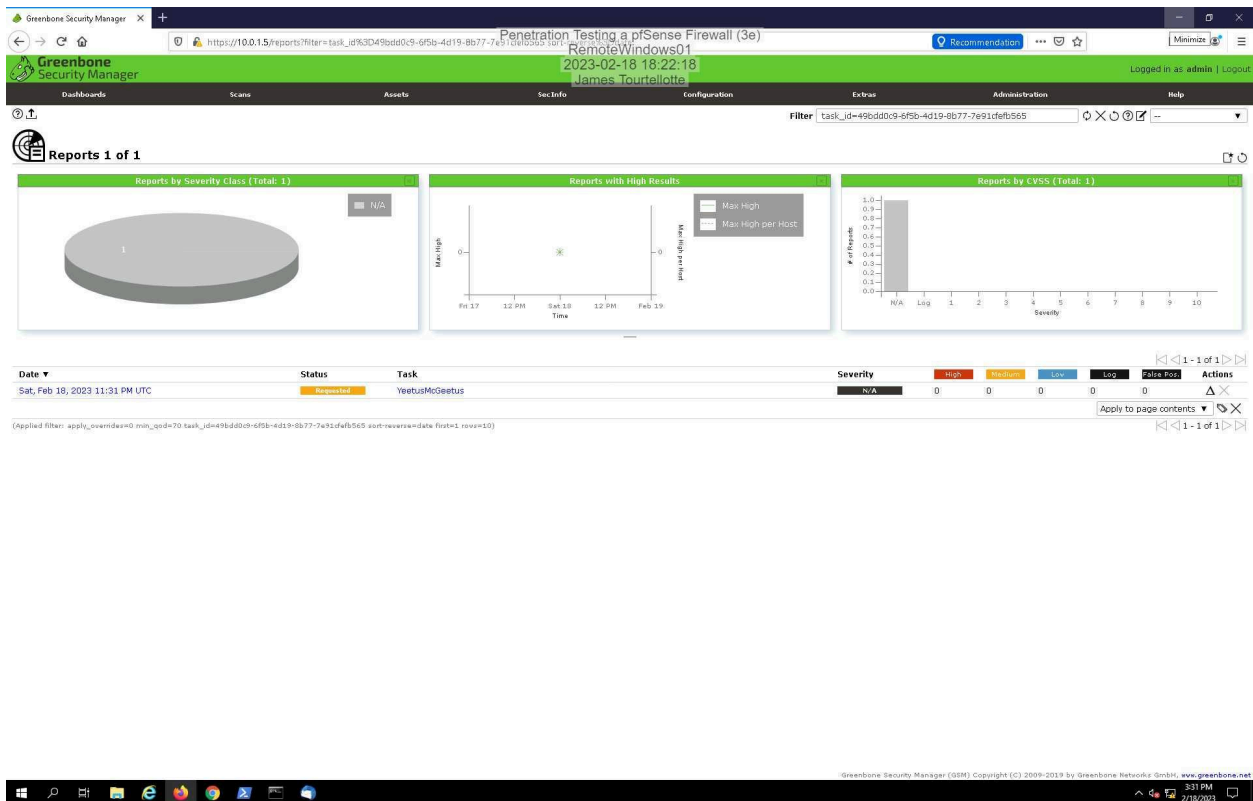
Screen Capture 1, Section 2:



A terminal window titled "Penetration Testing a pfSense Firewall (3e)" is shown. The window has a dark background with a blue and white geometric pattern. The terminal output shows the results of a ping command to corporationtechs.com (172.40.0.20) and a subsequent traceroute. The ping command was executed 11 times, showing a 0% packet loss and a total time of 10167ms. The traceroute shows three hops: the gateway (10.0.1.1), 202.20.1.1, and corporationtechs.com (172.40.0.20).

```
Activities Terminal Feb 18 15:25
Penetration Testing a pfSense Firewall (3e)
AttackLinux01
root@AttackLinux01:~#
64 bytes from corporationtechs.com (172.40.0.20): icmp_seq=5 ttl=62 time=0.909 m
s
64 bytes from corporationtechs.com (172.40.0.20): icmp_seq=6 ttl=62 time=0.839 m
s
64 bytes from corporationtechs.com (172.40.0.20): icmp_seq=7 ttl=62 time=0.865 m
s
64 bytes from corporationtechs.com (172.40.0.20): icmp_seq=8 ttl=62 time=0.752 m
s
64 bytes from corporationtechs.com (172.40.0.20): icmp_seq=9 ttl=62 time=0.784 m
s
64 bytes from corporationtechs.com (172.40.0.20): icmp_seq=10 ttl=62 time=0.677
ms
64 bytes from corporationtechs.com (172.40.0.20): icmp_seq=11 ttl=62 time=0.993
ms
^C
--- corporationtechs.com ping statistics ---
11 packets transmitted, 11 received, 0% packet loss, time 10167ms
rtt min/avg/max/mdev = 0.677/0.878/1.576/0.239 ms
root@AttackLinux01:~# traceroute 172.40.0.20
traceroute to 172.40.0.20 (172.40.0.20), 30 hops max, 60 byte packets
 1 _gateway (10.0.1.1) 0.330 ms 0.242 ms 0.208 ms
 2 202.20.1.1 (202.20.1.1) 0.658 ms 0.644 ms 0.666 ms
 3 corporationtechs.com (172.40.0.20) 0.885 ms 0.936 ms 0.936 ms
root@AttackLinux01:~#
```

## Screen Capture 2, Section 2:



## Screen Capture 3, Section 2:

