Lab 6 Step 6 Using netstat and ShieldsUp Joshua Richardson

Step 1: netstat -aRunning netstat -a returns a list of all TCP and UDP connections.

Running	neisiai -a reiums a lisi i	or all I or allo obt com	nections.
Active C	onnections		
Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	ServerPC:0	LISTENING
TCP	0.0.0.0:445	ServerPC:0	LISTENING
TCP	0.0.0.0:3306	ServerPC:0	LISTENING
TCP	0.0.0.0:5040	ServerPC:0	LISTENING
TCP	0.0.0.0:7680	ServerPC:0	LISTENING
TCP	0.0.0.0:33060	ServerPC:0	LISTENING
TCP	0.0.0.0:49664	ServerPC:0	LISTENING
TCP	0.0.0.0:49665	ServerPC:0	LISTENING
TCP	0.0.0.0:49666	ServerPC:0	LISTENING
TCP	0.0.0.0:49667	ServerPC:0	LISTENING
TCP	0.0.0.0:49668	ServerPC:0	LISTENING
TCP TCP	0.0.0.0:49669	ServerPC:0	LISTENING
TCP	127.0.0.1:49677 127.0.0.1:49678	ServerPC:49678 ServerPC:49677	ESTABLISHED ESTABLISHED
TCP	127.0.0.1:49679	ServerPC:49680	ESTABLISHED
TCP	127.0.0.1:49680	ServerPC:49679	ESTABLISHED
TCP	192.168.1.187:139	ServerPC:0	LISTENING
TCP	192.168.1.187:54142	104.18.1.181:https	ESTABLISHED
TCP	192.168.1.187:54505	93:https	TIME WAIT
TCP	192.168.1.187:54608	172.64.128.17:https	TIME_WAIT
TCP	192.168.1.187:54611	123:https	TIME_WAIT
TCP	192.168.1.187:54640	bi-in-f188:5228	FIN_WAIT_2
TCP	192.168.1.187:54662	123:http	TIME_WAIT
TCP	192.168.1.187:54669	bi-in-f84:https	TIME_WAIT
TCP	192.168.1.187:54670	phx19s06-in-f3:https	TIME_WAIT
TCP	192.168.1.187:54672	54.239.28.85:http	TIME_WAIT
TCP	192.168.1.187:54674	lga34s35-in-f3:http	TIME_WAIT
TCP	192.168.1.187:54679	192:https	TIME_WAIT
TCP	192.168.1.187:54680	lga34s32-in-f10:https	TIME_WAIT
TCP	192.168.1.187:54682	server-13-35-77-47:htt	
TCP	192.168.1.187:54688	server-13-35-77-47:htt	
TCP	192.168.1.187:54689	lga34s32-in-f4:https	TIME_WAIT
TCP TCP	192.168.1.187:54690 192.168.1.187:54692	lga34s32-in-f4:https 81:https	TIME_WAIT TIME_WAIT
TCP	192.168.1.187:54693	lga25s72-in-f3:https	TIME_WAIT
TCP	192.168.1.187:54695	lga25s78-in-f10:https	TIME_WAIT
TCP	192.168.1.187:54696	lga34s35-in-f3:https	TIME_WAIT
TCP	192.168.1.187:54697	lga25s71-in-f10:https	TIME WAIT
TCP	192.168.1.187:54698	server-13-35-77-18:htt	
TCP	192.168.1.187:54703	lga25s78-in-f3:https	TIME_WAIT
TCP	192.168.1.187:54712	lga34s32-in-f10:https	TIME_WAIT
TCP	192.168.1.187:54713	lga25s73-in-f3:https	TIME_WAIT
TCP	192.168.1.187:54715	138-199-40-58:https	TIME_WAIT
TCP	192.168.1.187:54720	server-18-239-183-117:	https TIME_WAIT
TCP	192.168.1.187:54721	lga34s35-in-f3:https	TIME_WAIT
TCP	192.168.1.187:54722	lga34s35-in-f3:https	TIME_WAIT
TCP	192.168.1.187:54723	lga34s37-in-f10:https	TIME_WAIT
TCP	192.168.1.187:54725	lga34s34-in-f3:https	TIME_WAIT
TCP	192.168.1.187:54726	server-18-239-183-120:	_
TCP	192.168.1.187:54727	lga25s73-in-f3:https	TIME_WAIT
TCP	192.168.1.187:54730	lga34s35-in-f3:https	TIME_WAIT
TCP TCP	192.168.1.187:54731 192.168.1.187:54735	lga34s34-in-f3:https phx18s08-in-f3:https	TIME_WAIT TIME WAIT
TCP	192.168.1.187:54744	a23-35-67-163:http	ESTABLISHED
TCP	192.168.1.187:54745	a23-194-190-163:https	ESTABLISHED
TCP	192.168.1.187:54746	a23-194-190-163:https	ESTABLISHED
TCP	192.168.1.187:60243	20.25.241.18:https	ESTABLISHED

Opening Firefox and going to Amazon and running the command again returns a connection to amazon, which is highlighted.

TCP	192.168.1.187:54525	lga34s30-in-f4:https	TIME_WAIT	
TCP	192.168.1.187:54527	a23-39-47-50:http	ESTABLISHED	
TCP	192.168.1.187:54528	lga34s30-in-f4:https	ESTABLISHED	
TCP	192.168.1.187:54529	37:https	TIME_WAIT	
TCP	192.168.1.187:54530	37:https	TIME_WAIT	
TCP	192.168.1.187:54531	37:https	TIME_WAIT	
TCP	192.168.1.187:54532	37:https	TIME_WAIT	
TCP	192.168.1.187:54533	37:https	TIME_WAIT	
TCP	192.168.1.187:54534	37:https	TIME_WAIT	
TCP	192.168.1.187:54535	37:https	TIME_WAIT	
TCP	192.168.1.187:54536	37:https	TIME_WAIT	
TCP	192.168.1.187:54537	37:https	TIME_WAIT	
TCP	192.168.1.187:54541	a104-126-119-82:https	ESTABLISHED	
TCP	192.168.1.187:54542	a104-126-119-82:https	ESTABLISHED	
TCP	192.168.1.187:54543	a104-126-119-82:https	ESTABLISHED	
TCP	192.168.1.187:54544	37:https	TIME_WAIT	
TCP	192.168.1.187:54545	37:https	TIME_WAIT	
TCP	192.168.1.187:54546	37:https	TIME_WAIT	
TCP	192.168.1.187:54547	37:https	TIME_WAIT	
TCP	192.168.1.187:54548	52.94.236.248:http		
TCP	192.168.1.187:54549	54.239.28.85:https		
TCP	192.168.1.187:54552	a104-91-62-101:https		
TCP	192.168.1.187:54561	151.101.129.16:https		
TCP	192.168.1.187:54562	ec2-34-237-172-254:htt		
TCP	192.168.1.187:54563	server-18-173-134-196:		
TCP	192.168.1.187:54564	ec2-44-215-142-139:htt		
TCP	192.168.1.187:60243	20.25.241.18:https	ESTABLISHED	
TCP	[::]:135	ServerPC:0	LISTENING	
TCP	[::]:445	ServerPC:0	LISTENING	
TCP	[::]:3306	ServerPC:0	LISTENING	
TCP	[::]:7680	ServerPC:0	LISTENING	
TCP	[::]:33060	ServerPC:0	LISTENING	

		Comments
Protocol	TCP	Protocol used
Local Address	192.168.1.187	Client's local address
Local Port	54549	Port used by the client locally
Foreign Address	54.239.28.85	Remote IP address
Remote Port	443	Remote port
Remote Application	HTTPS	HTTPS server
Status	Established	The connection is running

Step 2: netstat -na

Running netstat -na returns a list of all the networks, but using IP addresses instead of names.

TCP	192.168.1.187:54782	34.107.221.82:80	ESTABLISHED
TCP	192.168.1.187:54784	162.159.61.4:443	TIME_WAIT
TCP	192.168.1.187:54785	162.159.61.4:443	TIME_WAIT
TCP	192.168.1.187:54786	162.159.61.4:443	TIME_WAIT
TCP	192.168.1.187:54787	162.159.61.4:443	TIME_WAIT
TCP	192.168.1.187:54788	162.159.61.4:443	TIME_WAIT
TCP	192.168.1.187:54789	34.120.208.123:443	ESTABLISHED
TCP	192.168.1.187:54790	34.117.237.239:443	ESTABLISHED
TCP	192.168.1.187:54791	35.244.181.201:443	ESTABLISHED
TCP	192.168.1.187:54792	162.159.61.4:443	ESTABLISHED
TCP	192.168.1.187:54793	162.159.61.4:443	ESTABLISHED
TOD	400 460 4 407 54704	400 000 044 400 00	ECTABLICHED

		Comments
Protocol	TCP	Protocol used
Local Address	192.168.1.187	Client's local address
Local Port	54789	Port used by the client locally
Foreign Address	34.120.208.123	Remote IP address
Remote Port	443	Remote port
Remote Application	HTTPS	HTTPS server
Status	Established	The connection is running

This appears to be from Google, as looking it up returns information about it being used for googleusercontent. The foreign address shown when running netstat -a is "192:https"

Step 3: netstat -ano

Running netstat -ano returns the same thing as netstat -an, but it includes the PID column, which displays the process id of the application using it.

ICP	192.108.1.18/:54923	1/2.04.41.4:443	IIME_WAII	О
TCP	192.168.1.187:54924	172.64.41.4:443	TIME_WAIT	0
TCP	192.168.1.187:54925	34.107.221.82:80	ESTABLISHED	12152
TCP	192.168.1.187:54926	172.64.41.4:443	ESTABLISHED	12152
TCP	192.168.1.187:54927	192.229.211.108:80	ESTABLISHED	12152
TCP	192.168.1.187:54928	34.107.243.93:443	ESTABLISHED	12152
TCP	192.168.1.187:54930	23.39.47.56:80	ESTABLISHED	12152
TCP	192.168.1.187:54931	34.120.208.123:443	ESTABLISHED	12152
TCP	192.168.1.187:54933	35.244.181.201:443	ESTABLISHED	12152
TCP	192.168.1.187:54934	34.107.243.93:443	ESTABLISHED	12152
TCP	192.168.1.187:54935	34.149.100.209:443	ESTABLISHED	12152
TCP	192.168.1.187:54936	23.39.47.50:80	TIME_WAIT	0
TCP	192.168.1.187:54937	34.107.141.31:443	ESTABLISHED	12152

12152 is one of the PIDs for Firefox, obviously Firefox uses many PIDs as there are 10 of them listed on Task Manager.

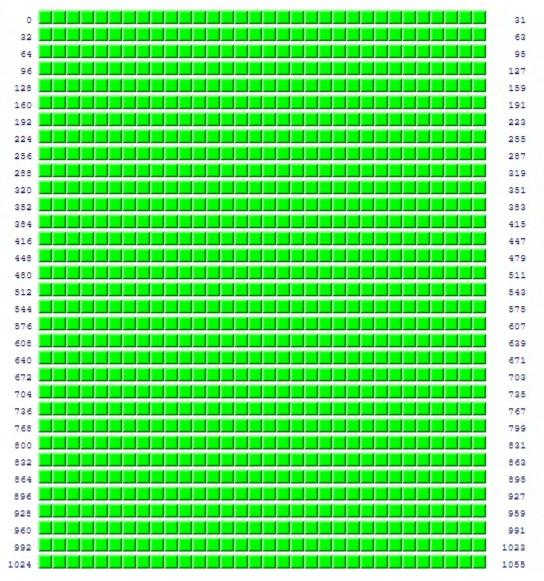
Step 4: Remote Connections

I used my computer that I use to host game servers for this lab. I was remotely connected to it from school, so there are some connections used for that. My mom works from home and she does a lot of networking for her job (programming wireless security cameras), so I'm sure there are many connections that are involved there.

Step 5: netstat -eThis prints the network statistics for the computer.

rnis prints the network statistics for the com	puter.
IPv4 Statistics	
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Packets Received	= 34295636
Received Header Errors	= 0
Received Address Errors	= 115399
Datagrams Forwarded	= 0
Unknown Protocols Received	= 0
Received Packets Discarded	= 2546627
Received Packets Delivered	= 34100021
Output Requests	= 19725269
Routing Discards	= 0
Discarded Output Packets	= 15574
Output Packet No Route	= 3
Reassembly Required	= 24
Reassembly Successful	= 12
Reassembly Failures	= 0
Datagrams Successfully Fragmented	
Datagrams Failing Fragmentation	= 0
Fragments Created	= 0
IPv6 Statistics	
Packets Received	= 1976323
Received Header Errors	= 0
Received Address Errors	= 86
Datagrams Forwarded	= 0
Unknown Protocols Received	= 0
Received Packets Discarded	= 914934
Received Packets Delivered	= 1952174
Output Requests	= 11801
Routing Discards	= 0
Discarded Output Packets	= 0
Output Packet No Route	= 0
Reassembly Required	= 24
Reassembly Successful	= 12
Reassembly Failures	= 0
Datagrams Successfully Fragmented	
Datagrams Failing Fragmentation	= 0
Fragments Created	= 0

Step 6: ShieldsUP



All of the scanned ports are all green. I know for a fact that I have the ports 27015, 25565, and 7777 open, but those weren't scanned, as those are used for servers I host.