

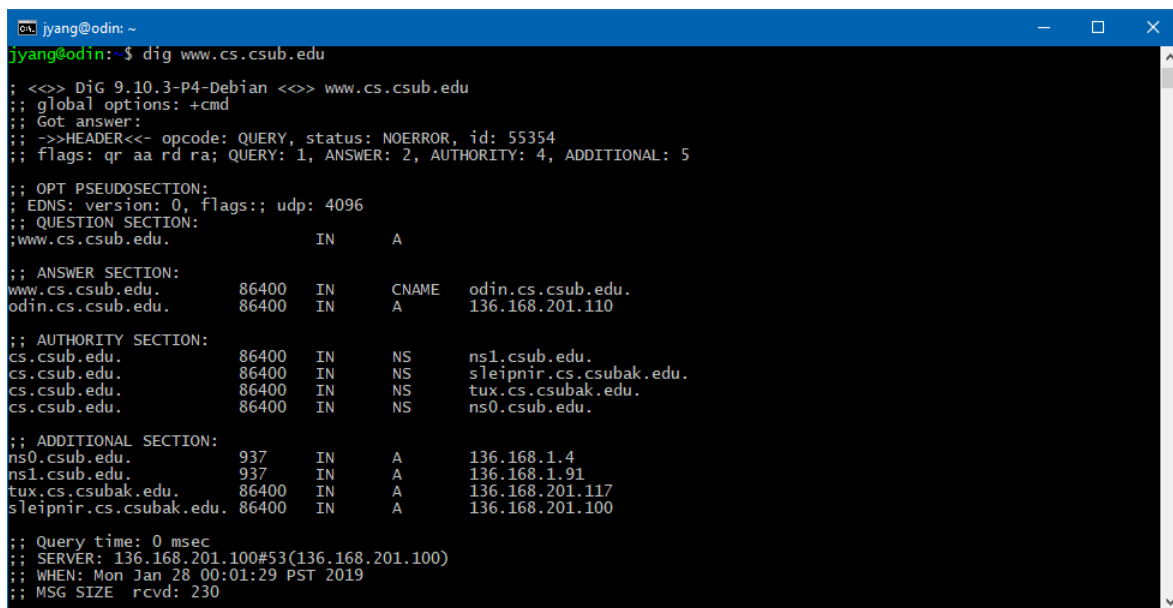
CMPS 3620
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Lab 01
Command Line Networking Tools

1. For this Lab assignment, the tools DIG, PING, TRACEROUTE, TRACEPATH, TELNET, NSLOOKUP, and NETSTAT were tested. DIG and NSLOOKUP seemed to provide the most useful information regarding information about the server, while PING, TRACEROUTE/TRACEPATH, and NETSTAT provided information about how well the connection between the client and server is operating. TELNET seems to have more utility if one is able to connect to the host directly. All of the tools were able to work on both google.com and cs.csub.edu.

=====

2.

Output for dig www.cs.csub.edu



```
jyang@odin: ~  
jyang@odin:~$ dig www.cs.csub.edu  
;<<> DiG 9.10.3-P4-Debian <<> www.cs.csub.edu  
;; global options: +cmd  
;; Got answer:  
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 55354  
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 4, ADDITIONAL: 5  
  
;; OPT PSEUDOSECTION:  
;; EDNS: version: 0, flags:: udp: 4096  
;; QUESTION SECTION:  
;www.cs.csub.edu.          IN      A  
  
;; ANSWER SECTION:  
www.cs.csub.edu.         86400  IN      CNAME   odin.cs.csub.edu.  
odin.cs.csub.edu.       86400  IN      A       136.168.201.110  
  
;; AUTHORITY SECTION:  
cs.csub.edu.            86400  IN      NS      ns1.csub.edu.  
cs.csub.edu.            86400  IN      NS      sleipnir.cs.csubak.edu.  
cs.csub.edu.            86400  IN      NS      tux.cs.csubak.edu.  
cs.csub.edu.            86400  IN      NS      ns0.csub.edu.  
  
;; ADDITIONAL SECTION:  
ns0.csub.edu.           937    IN      A       136.168.1.4  
ns1.csub.edu.           937    IN      A       136.168.1.91  
tux.cs.csubak.edu.     86400  IN      A       136.168.201.117  
sleipnir.cs.csubak.edu. 86400  IN      A       136.168.201.100  
  
;; Query time: 0 msec  
;; SERVER: 136.168.201.100#53(136.168.201.100)  
;; WHEN: Mon Jan 28 00:01:29 PST 2019  
;; MSG SIZE rcvd: 230
```

Output for dig soa www.cs.csub.edu

```

jyang@odin: ~
jyang@odin:~$ dig soa www.cs.csub.edu
; <<> DiG 9.10.3-P4-Debian <<> soa www.cs.csub.edu
;; global options: +cmd
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 31948
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:;, udp: 4096
;; QUESTION SECTION:
;www.cs.csub.edu.                IN      SOA
;; ANSWER SECTION:
www.cs.csub.edu.                86400   IN      CNAME   odin.cs.csub.edu.
;; AUTHORITY SECTION:
cs.csub.edu.                    43200   IN      SOA     sleipnir.cs.csubak.edu. postmaster.cs.csubak.edu. 2018113000 300 60 1209
600 43200
;; Query time: 1 msec
;; SERVER: 136.168.201.100#53(136.168.201.100)
;; WHEN: Mon Jan 28 00:02:25 PST 2019
;; MSG SIZE rcvd: 129

```

The difference between the two commands can be found in the AUTHORITY SECTION of the two outputs. With 'soa' included as a tag, the tool reveals the Start of Authority record including the primary name server (sleipnir.cs.csubak.edu), the responsible party (postmaster.cs.csubak.edu), and the time that the domain was last updated.

3. The command dig soa 224.9.209.in-addr.arpa will find the Start of Authority record. In-addr.arpa is used to determine which IP address is associated with a host name through reverse mapping the inverse address.

```

jyang@odin: ~
jyang@odin:~$ dig soa 224.9.209.in-addr.arpa
; <<> DiG 9.10.3-P4-Debian <<> soa 224.9.209.in-addr.arpa
;; global options: +cmd
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 7
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 8, ADDITIONAL: 7

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:;, udp: 4096
;; QUESTION SECTION:
;224.9.209.in-addr.arpa.        IN      SOA
;; ANSWER SECTION:
224.9.209.in-addr.arpa. 3600   IN      SOA     ns01.eng01.latisys.net. dns-admin.latisys.net. 49746695
6 3600 1800 3600000 86400
;; AUTHORITY SECTION:
224.9.209.in-addr.arpa. 3600   IN      NS      ns02.eng01.latisys.net.
224.9.209.in-addr.arpa. 3600   IN      NS      ns02.ash01.latisys.net.
224.9.209.in-addr.arpa. 3600   IN      NS      ns01.oak01.latisys.net.
224.9.209.in-addr.arpa. 3600   IN      NS      ns01.irv01.latisys.net.
224.9.209.in-addr.arpa. 3600   IN      NS      ns01.ash01.latisys.net.
224.9.209.in-addr.arpa. 3600   IN      NS      ns02.irv01.latisys.net.
224.9.209.in-addr.arpa. 3600   IN      NS      ns02.oak01.latisys.net.
224.9.209.in-addr.arpa. 3600   IN      NS      ns01.eng01.latisys.net.
;; ADDITIONAL SECTION:
ns01.ash01.latisys.net. 900    IN      A       67.217.164.34
ns01.eng01.latisys.net. 900    IN      A       65.38.161.20
ns01.irv01.latisys.net. 10800  IN      A       209.80.45.2
ns02.ash01.latisys.net. 900    IN      A       67.217.164.35
ns02.eng01.latisys.net. 900    IN      A       65.38.161.21
ns02.irv01.latisys.net. 10800  IN      A       207.38.45.140
;; Query time: 1062 msec
;; SERVER: 136.168.201.100#53(136.168.201.100)
;; WHEN: Sat Jan 26 02:09:31 PST 2019
;; MSG SIZE rcvd: 380

```

4. If the error message includes --- unknown host ---, the likely problem is that while trying to PING ftp.foo.com, the host server does not have their DNS properly configured. This could be investigated with the NSLOOKUP command in order to test the host name resolution and check DNS server registration

```
jyang@odin: ~  
jyang@odin:~$ nslookup ftp.foo.com  
Server:      136.168.201.100  
Address:    136.168.201.100#53  
  
Non-authoritative answer:  
Name:      ftp.foo.com  
Address:  23.23.86.44  
  
jyang@odin:~$ ping 136.168.201.100  
PING 136.168.201.100 (136.168.201.100) 56(84) bytes of data.  
64 bytes from 136.168.201.100: icmp_seq=1 ttl=64 time=0.167 ms  
64 bytes from 136.168.201.100: icmp_seq=2 ttl=64 time=0.126 ms  
64 bytes from 136.168.201.100: icmp_seq=3 ttl=64 time=0.145 ms  
^C  
--- 136.168.201.100 ping statistics ---  
3 packets transmitted, 3 received, 0% packet loss, time 2027ms  
rtt min/avg/max/mdev = 0.126/0.146/0.167/0.016 ms  
jyang@odin:~$
```

5. If the error message includes '... Connection timed out', a connection possibly via TELNET, SSH, or TELNET was not able to be formed. This could be an error caused by the host server being down or not existing at that domain and could be also checked by NSLOOKUP to check if the domain exists or is down.

```
jyang@odin: ~  
Trying 208.207.151.35...  
telnet: Unable to connect to remote host:  
Connection timed out  
jyang@odin:~$
```

```
jyang@odin: ~
jyang@odin:~$ nslookup 208.207.151.35
Server:      136.168.201.100
Address:     136.168.201.100#53

** server can't find 35.151.207.208.in-addr.arpa: NXDOMAIN
jyang@odin:~$
```

Conclusion:

DIG is clearly the most versatile tool of those used, while PING and NSLOOKUP provide very quick valuable information. The importance of TRACEROUTE/TRACEPATH and NETSTAT is not yet known to me yet, but I am sure it will be heavily used in the future due to the large stream of data to be had with those searches.

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ADDITIONAL SCREENSHOTS OF COMMANDS

DIG

```
jyang@odin: ~
jyang@odin:~$ dig www.cs.csub.edu

;<<>> DiG 9.10.3-P4-Debian <<>> www.cs.csub.edu
;; global options: +cmd
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 19387
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 4, ADDITIONAL: 5

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;www.cs.csub.edu.                IN      A

;; ANSWER SECTION:
www.cs.csub.edu.                86400  IN      CNAME   odin.cs.csub.edu.
odin.cs.csub.edu.              86400  IN      A       136.168.201.110

;; AUTHORITY SECTION:
cs.csub.edu.                    86400  IN      NS      ns1.csub.edu.
cs.csub.edu.                    86400  IN      NS      ns0.csub.edu.
cs.csub.edu.                    86400  IN      NS      sleipnir.cs.csubak.edu.
cs.csub.edu.                    86400  IN      NS      tux.cs.csubak.edu.

;; ADDITIONAL SECTION:
ns0.csub.edu.                   275    IN      A       136.168.1.4
ns1.csub.edu.                   275    IN      A       136.168.1.91
tux.cs.csubak.edu.              86400  IN      A       136.168.201.117
sleipnir.cs.csubak.edu.         86400  IN      A       136.168.201.100

;; Query time: 1 msec
;; SERVER: 136.168.201.100#53(136.168.201.100)
;; WHEN: Sat Jan 26 00:12:30 PST 2019
;; MSG SIZE rcvd: 230

jyang@odin:~$
```

```
jyang@odin: ~  
;; SERVER: 136.168.201.100#53(136.168.201.100)  
;; WHEN: Sat Jan 26 00:12:30 PST 2019  
;; MSG SIZE rcvd: 230  
  
jyang@odin:~$ dig soa www.cs.csub.edu  
  
;<<> DiG 9.10.3-P4-Debian <<> soa www.cs.csub.edu  
;; global options: +cmd  
;; Got answer:  
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 51784  
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0; Flags: udp: 4096  
;; QUESTION SECTION:  
;www.cs.csub.edu. IN SOA  
  
;; ANSWER SECTION:  
www.cs.csub.edu. 86400 IN CNAME odin.cs.csub.edu.  
  
;; AUTHORITY SECTION:  
cs.csub.edu. 43200 IN SOA sleipnir.cs.csubak.edu. postmaster.cs.csubak.edu. 2018113000 300 60 1209600 43200  
  
;; Query time: 0 msec  
;; SERVER: 136.168.201.100#53(136.168.201.100)  
;; WHEN: Sat Jan 26 00:14:38 PST 2019  
;; MSG SIZE rcvd: 129  
  
jyang@odin:~$
```

PING

```
jyang@odin: ~  
jyang@odin:~$ ping cs.csub.edu  
PING cs.csub.edu (136.168.201.110) 56(84) bytes of data.  
64 bytes from odin.cs.csubak.edu (136.168.201.110): icmp_seq=1 ttl=64 time=0.028 ms  
64 bytes from odin.cs.csubak.edu (136.168.201.110): icmp_seq=2 ttl=64 time=0.029 ms  
64 bytes from odin.cs.csubak.edu (136.168.201.110): icmp_seq=3 ttl=64 time=0.028 ms  
64 bytes from odin.cs.csubak.edu (136.168.201.110): icmp_seq=4 ttl=64 time=0.026 ms  
^C  
--- cs.csub.edu ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 3069ms  
rtt min/avg/max/mdev = 0.026/0.027/0.029/0.006 ms  
jyang@odin:~$ ping 136.168.201.110  
PING 136.168.201.110 (136.168.201.110) 56(84) bytes of data.  
64 bytes from 136.168.201.110: icmp_seq=1 ttl=64 time=0.033 ms  
64 bytes from 136.168.201.110: icmp_seq=2 ttl=64 time=0.026 ms  
64 bytes from 136.168.201.110: icmp_seq=3 ttl=64 time=0.026 ms  
64 bytes from 136.168.201.110: icmp_seq=4 ttl=64 time=0.026 ms  
^C  
--- 136.168.201.110 ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 3072ms  
rtt min/avg/max/mdev = 0.026/0.027/0.033/0.007 ms  
jyang@odin:~$
```

TRACEROUTE

```
jyang@odin: ~  
traceroute to www.google.com (216.58.195.228), 30 hops max, 60 byte packets  
 1 136.168.201.1 (136.168.201.1) 0.948 ms 0.897 ms 0.898 ms  
 2 bak-11-r100a-f00w1e4thp2.csub.edu (136.168.249.1) 1.725 ms 1.665 ms 1.694 ms  
 3 bak-11-r100a-rt0-vlan700.csub.edu (136.168.248.1) 2.169 ms 2.016 ms 1.866 ms  
 4 bak-agg2-csubakersfield-10ge.cenic.net (137.164.4.97) 2.148 ms 2.133 ms 2.099 ms  
 5 dc-riv-agg4-bak-agg2-1.cenic.net (137.164.46.246) 6.556 ms 6.478 ms 6.575 ms  
 6 dc-lax-agg6-riv-agg4-100ge-2.cenic.net (137.164.22.46) 10.691 ms dc-lax-agg6-riv-agg4-100ge.cenic.net (137.164.11.2) 10.802 ms dc-lax-agg6-riv-agg4-100ge-2.cenic.net (137.164.22.46) 10.787 ms  
 7 72.14.222.56 (72.14.222.56) 10.429 ms 74.125.49.165 (74.125.49.165) 10.451 ms 72.14.222.56 (72.14.222.56) 10.490 ms  
 8 108.170.247.179 (108.170.247.179) 10.573 ms 10.662 ms 108.170.247.147 (108.170.247.147) 10.517 ms  
 9 108.170.234.41 (108.170.234.41) 11.174 ms 108.170.234.38 (108.170.234.38) 14.812 ms 108.170.234.41 (108.170.234.41) 11.155 ms  
10 66.249.95.14 (66.249.95.14) 19.240 ms 209.85.254.229 (209.85.254.229) 20.932 ms 66.249.95.14 (66.249.95.14) 19.048 ms  
11 74.125.253.150 (74.125.253.150) 19.050 ms 21.575 ms 74.125.253.148 (74.125.253.148) 18.132 ms  
12 108.170.242.225 (108.170.242.225) 20.206 ms 108.170.243.1 (108.170.243.1) 19.815 ms 21.721 ms  
13 108.170.237.119 (108.170.237.119) 18.749 ms 108.170.237.9 (108.170.237.9) 18.709 ms 108.170.237.119 (108.170.237.119) 18.711 ms  
14 sF03s06-in-f228.1e100.net (216.58.195.228) 17.951 ms 19.730 ms 19.691 ms  
14 sF03s06-in-f228.1e100.net (216.58.195.228) 17.951 ms 19.730 ms 19.691 ms  
jyang@odin:~$
```

```
jyang@odin: ~  
jyang@odin:~$ traceroute cs.csub.edu  
traceroute to cs.csub.edu (136.168.201.110), 30 hops max, 60 byte packets  
1 odin.cs.csubak.edu (136.168.201.110) 0.031 ms 0.012 ms 0.011 ms  
jyang@odin:~$ traceroute -n cs.csub.edu  
traceroute to cs.csub.edu (136.168.201.110), 30 hops max, 60 byte packets  
1 136.168.201.110 0.029 ms 0.012 ms 0.011 ms  
jyang@odin:~$ traceroute 136.168.201.110  
traceroute to 136.168.201.110 (136.168.201.110), 30 hops max, 60 byte packets  
1 odin.cs.csubak.edu (136.168.201.110) 0.032 ms 0.013 ms 0.010 ms  
jyang@odin:~$
```

TRACEPATH

```
jyang@odin: ~  
jyang@odin:~$ tracepath cs.csub.edu  
1: odin.cs.csubak.edu 0.063ms reached  
Resume: pmtu 65535 hops 1 back 1  
jyang@odin:~$ tracepath -n cs.csub.edu  
1: 136.168.201.110 0.062ms reached  
Resume: pmtu 65535 hops 1 back 1  
jyang@odin:~$
```

```
jyang@odin: ~  
jyang@odin:~$ traceroute -n google.com  
traceroute to google.com (172.217.11.78), 30 hops max, 60 byte packets  
1 136.168.201.1 0.879 ms 0.870 ms 0.855 ms  
2 136.168.249.1 1.715 ms 1.689 ms 1.646 ms  
3 136.168.248.1 1.875 ms 1.973 ms 2.086 ms  
4 137.164.4.97 2.124 ms 2.090 ms 2.097 ms  
5 137.164.46.246 6.498 ms 6.521 ms 6.581 ms  
6 137.164.22.46 10.690 ms 10.681 ms 137.164.11.2 12.084 ms  
7 72.14.222.56 10.607 ms 10.410 ms 74.125.49.165 10.410 ms  
8 108.170.247.225 10.389 ms 108.170.247.193 11.594 ms 108.170.247.225 10.530 ms  
9 108.170.225.121 10.480 ms 108.170.225.123 10.450 ms 10.425 ms  
10 172.217.11.78 10.285 ms 10.375 ms 10.333 ms  
jyang@odin:~$ tracepath -n google.com  
I?: [LOCALHOST] pmtu 1500  
1: 136.168.201.1 3.002ms  
1: 136.168.201.1 2.892ms  
2: 136.168.249.1 5.841ms  
3: 136.168.248.1 5.928ms  
4: 137.164.4.97 6.094ms  
5: 137.164.46.246 10.497ms  
6: 137.164.22.46 14.797ms  
7: no reply  
8: no reply  
^C  
jyang@odin:~$
```

TELNET

```
jyang@odin: ~  
jyang@odin:~$ telnet google.com 443  
Trying 172.217.11.78...  
Connected to google.com.  
Escape character is '^]'.  
^]  
telnet> quit  
Connection closed.  
jyang@odin:~$ telnet cs.csub.edu 443  
Trying 136.168.201.110...  
Connected to cs.csub.edu.  
Escape character is '^]'.  
^]  
telnet> quit  
Connection closed.  
jyang@odin:~$ telnet google.com 444  
Trying 172.217.11.78...  
Trying 2607:f8b0:4007:802::200e...  
telnet: Unable to connect to remote host: Network is unreachable  
jyang@odin:~$
```

NSLOOKUP

```
jyang@odin: ~  
jyang@odin:~$ nslookup google.com  
Server: 136.168.201.100  
Address: 136.168.201.100#53  
  
Non-authoritative answer:  
Name: google.com  
Address: 172.217.11.78  
  
jyang@odin:~$ nslookup 172.217.11.78  
Server: 136.168.201.100  
Address: 136.168.201.100#53  
  
Non-authoritative answer:  
78.11.217.172.in-addr.arpa name = lax17s34-in-f14.1e100.net.  
  
Authoritative answers can be found from:  
217.172.in-addr.arpa nameserver = ns1.google.com.  
217.172.in-addr.arpa nameserver = ns4.google.com.  
217.172.in-addr.arpa nameserver = ns2.google.com.  
217.172.in-addr.arpa nameserver = ns3.google.com.  
ns1.google.com internet address = 216.239.32.10  
ns1.google.com has AAAA address 2001:4860:4802:32::a  
ns2.google.com internet address = 216.239.34.10  
ns2.google.com has AAAA address 2001:4860:4802:34::a  
ns3.google.com internet address = 216.239.36.10  
ns3.google.com has AAAA address 2001:4860:4802:36::a  
ns4.google.com internet address = 216.239.38.10  
ns4.google.com has AAAA address 2001:4860:4802:38::a  
  
jyang@odin:~$
```

```
jyang@odin: ~  
jyang@odin:~$ nslookup cs.csub.edu  
Server:      136.168.201.100  
Address:     136.168.201.100#53  
  
Name:   cs.csub.edu  
Address: 136.168.201.110  
  
jyang@odin:~$ nslookup 136.168.201.110  
Server:      136.168.201.100  
Address:     136.168.201.100#53  
  
110.201.168.136.in-addr.arpa    name = odin.cs.csubak.edu.  
jyang@odin:~$
```


NETSTAT

```

jyang@odin: ~
jyang@odin:~$ netstat cs.csub.edu
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address
State
tcp      0      200 odin.cs.csubak.edu:ssh  107-144-229-20.re:54181
ESTABLISHED
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38854
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:39186
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:39120
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38978
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38980
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38840
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38896
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38846
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38946
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:39134
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:39192
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38936
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38806
TIME_WAIT
tcp      0      0 odin.cs.csubak.edu:ssh  serpent.cs.csubak:34938
ESTABLISHED
tcp      0      0 odin.cs.csubak.edu:ssh  creek.cs.csubak.e:33708
ESTABLISHED
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38928
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:39176
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38886
TIME_WAIT
tcp      0      0 odin.cs.csubak.edu:ssh  serpent.cs.csubak:34566
ESTABLISHED
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38912
TIME_WAIT
tcp      0      0 odin.cs.cs:zabbix-agent blowfish.cs.csuba:38984
TIME_WAIT

```

```

jyang@odin: ~
tcp        0      0 odin.cs.cs:zabbix-agent  blowfish.cs.csuba:39172  TIME_WAIT
tcp        0      0 odin.cs.csubak.edu:ssh   107-144-229-20.re:62195  ESTABLISHED
tcp        0      0 odin.cs.csubak.edu:ssh   serpent.cs.csubak:34934  ESTABLISHED
tcp        0      0 odin.cs.cs:zabbix-agent  blowfish.cs.csuba:39432  TIME_WAIT
tcp6       0      0 odin.cs.csubak.ed:https  ninja-crawler20.w:41768  ESTABLISHED
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags      Type       State      I-Node    Path
unix   2          [ ]        DGRAM     -          754498073 /run/user/10271/systemd/notify
unix   2          [ ]        DGRAM     -          22108444  /run/user/1002/systemd/notify
unix   2          [ ]        DGRAM     -          859687208 /run/user/10192/systemd/notify
unix   21         [ ]        DGRAM     -          10359     /run/systemd/journal/socket
unix   3          [ ]        DGRAM     -          20095     /run/systemd/notify
unix   2          [ ]        DGRAM     -          20097     /run/systemd/cgroups-agent
unix   2          [ ]        DGRAM     -          734455440 /run/user/10050/systemd/notify
unix   2          [ ]        DGRAM     -          20114     /run/systemd/journal/syslog
unix   49         [ ]        DGRAM     -          20127     /run/systemd/journal/dev-log
unix   2          [ ]        DGRAM     -          803823784 /run/user/10167/systemd/notify
unix   2          [ ]        DGRAM     -          97667503  /run/user/10086/systemd/notify
unix   2          [ ]        DGRAM     -          127551158 /run/user/10126/systemd/notify
unix   2          [ ]        DGRAM     -          828161723 /run/user/1001/systemd/notify
unix   2          [ ]        DGRAM     -          764742081 /run/user/10042/systemd/notify
unix   2          [ ]        DGRAM     -          859872725 /run/user/10486/systemd/notify
unix   2          [ ]        DGRAM     -          24024     /run/user/1000/systemd/notify
unix   2          [ ]        DGRAM     -          858242787 /run/user/10105/systemd/notify
unix   2          [ ]        DGRAM     -          858745828 /run/user/10067/systemd/notify
unix   2          [ ]        DGRAM     -          247397610 /run/user/10454/systemd/notify
unix   2          [ ]        DGRAM     -          546501112 /run/user/10082/systemd/notify
unix   2          [ ]        DGRAM     -          642018045 /run/user/10196/systemd/notify
unix   3          [ ]        STREAM    CONNECTED 859683671
unix   3          [ ]        STREAM    CONNECTED 760116210 /var/run/dbus/system_bus_socket
unix   3          [ ]        STREAM    CONNECTED 846488272
unix   2          [ ]        STREAM    CONNECTED 839131589

```