

## Grep with Delimiter

```
(root@kali)-[/home/kali]
# grep 'href=' index.html | cut -d "/" -f3
www.uky.edu
www.uky.edu
default
default
default
link.html.twig" --><a href="#main-content" class="skip-nav">
www.uky.edu

www.ukalumni.net
www.uky.edu
uky.campuslabs.com
calendar.uky.edu" class="">Calendar<
www.uky.edu
www.uky.edu
" class="">Faculty &amp; Staff<
www.uky.edu
www.uky.edu
ukjobs.uky.edu" class="">Jobs<
libraries.uky.edu
www.uky.edu
registrar.uky.edu
www.uky.edu
www.uky.edu
techhelpcenter.uky.edu
www.uky.edu
my-uk-logo.html.twig" --><a class="my-uk-logo" href="https:

applyuk.com
uky.networkforgood.com
visit.uky.edu">VISIT<
13">#UK4KY<
www.visitlex.com
50">Accreditation<
24">Administration<
coldstream.uky.edu
commencement.uky.edu
```

## Netstat using tcp and udp

```
root@kali: /home/kali

File Actions Edit View Help

<Socket> {-t|--tcp} {-u|--udp} {-U|--udplite} {-S|--sctp} {-w|--raw}
{-x|--unix} --ax25 --ipx --netrom
<AF> Use '-6|-4' or '-A <af>' or '--<af>'; default: inet
List of possible address families (which support routing):
inet (DARPA Internet) inet6 (IPv6) ax25 (AMPR AX.25)
netrom (AMPR NET/ROM) rose (AMPR ROSE) ipx (Novell IPX)
ddp (Appletalk DDP) x25 (CCITT X.25)

(root@kali)-[/home/kali]
# netstat -t -u

Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address          State
tcp        0      0 192.168.195.128:59370    55.65.117.34.bc.g:https TIME_WAIT
tcp        0      0 192.168.195.128:55578    209.100.149.34.bc:https ESTABLISHED
tcp        0      0 192.168.195.128:42612    ord38s30-in-f14.1:https TIME_WAIT
tcp        0      0 192.168.195.128:42014    191.144.160.34.bc:https ESTABLISHED
tcp        0      0 192.168.195.128:60594    53.121.117.34.bc.:https ESTABLISHED
tcp        0      0 192.168.195.128:48608    239.237.117.34.bc:https TIME_WAIT
tcp        0      0 192.168.195.128:57886    ord37s51-in-f14.1:https ESTABLISHED
tcp        0      0 192.168.195.128:57842    102.115.120.34.bc:https TIME_WAIT
tcp        0      0 192.168.195.128:52368    ec2-3-220-77-232.:https TIME_WAIT
tcp        0      0 192.168.195.128:48974    server-18-64-183-:https TIME_WAIT
tcp        0      0 192.168.195.128:48028    201.181.244.35.bc:https ESTABLISHED
tcp        0      0 192.168.195.128:54090    ord38s28-in-f3.1e:https TIME_WAIT
tcp        0      0 192.168.195.128:60402    ord37s51-in-f14.1:https TIME_WAIT
tcp        0      0 192.168.195.128:55988    191.144.160.34.bc:https TIME_WAIT
tcp        0      0 192.168.195.128:59378    55.65.117.34.bc.g:https ESTABLISHED
tcp        0      0 192.168.195.128:48050    ord37s35-in-f3.1e:https TIME_WAIT
tcp        0      0 192.168.195.128:56424    ord38s28-in-f14.1:https TIME_WAIT
tcp        0      0 192.168.195.128:38018    21.103.201.35.bc.:https TIME_WAIT
tcp        0      0 192.168.195.128:43762    36.75.98.34.bc.go:https TIME_WAIT
udp        0      0 192.168.195.128:bootpc   192.168.195.254:bootps ESTABLISHED

(root@kali)-[/home/kali]
#
```

Output after clearing



SSH StartStop

```
root@kali: /home/kali
File Actions Edit View Help

-l, --listening      display listening server sockets
-a, --all            display all sockets (default: connected)
-F, --fib            display Forwarding Information Base (default)
-C, --cache          display routing cache instead of FIB
-Z, --context        display SELinux security context for sockets

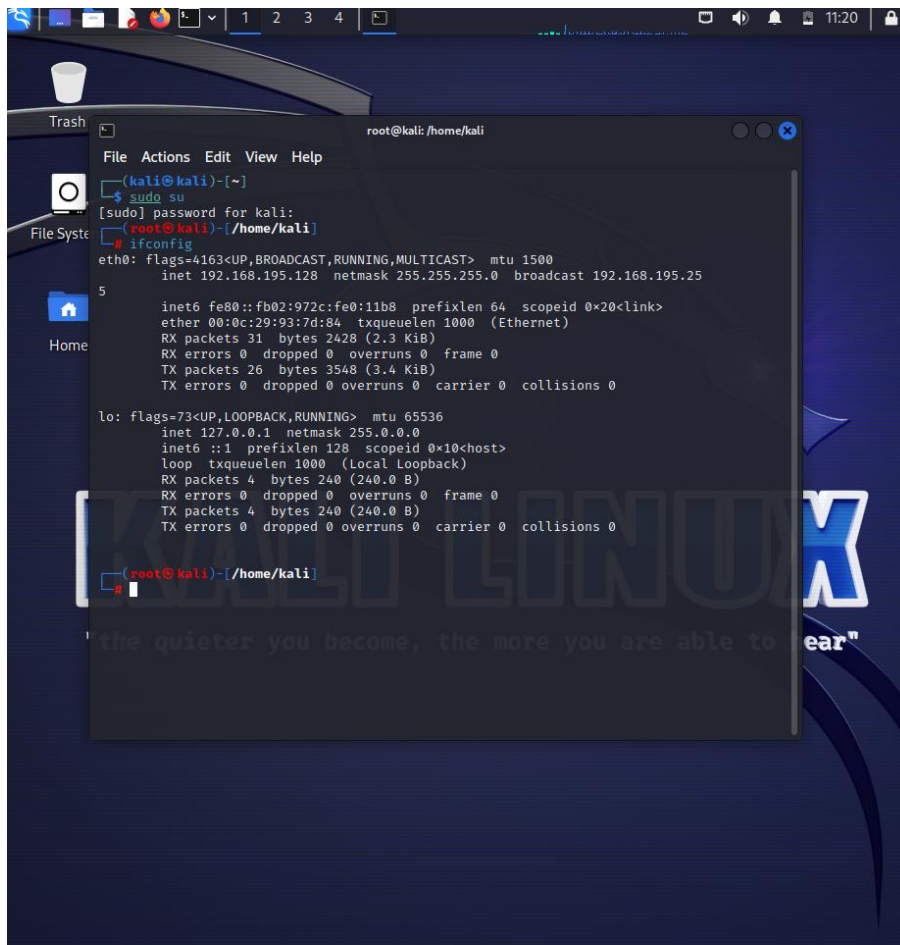
<Socket> {-t|--tcp} {-u|--udp} {-U|--udplite} {-S|--sctp} {-w|--raw}
               {-x|--unix} --ax25 --ipx --netrom
<AF> Use '-6|-4' or '-A <af>' or '--<af>'; default: inet
List of possible address families (which support routing):
inet (DARPA Internet) inet6 (IPv6) ax25 (AMPR AX.25)
netrom (AMPR NET/ROM) rose (AMPR ROSE) ipx (Novell IPX)
ddp (Appletalk DDP) x25 (CCITT X.25)

(root@kali)-[/home/kali]
# service ssh start;

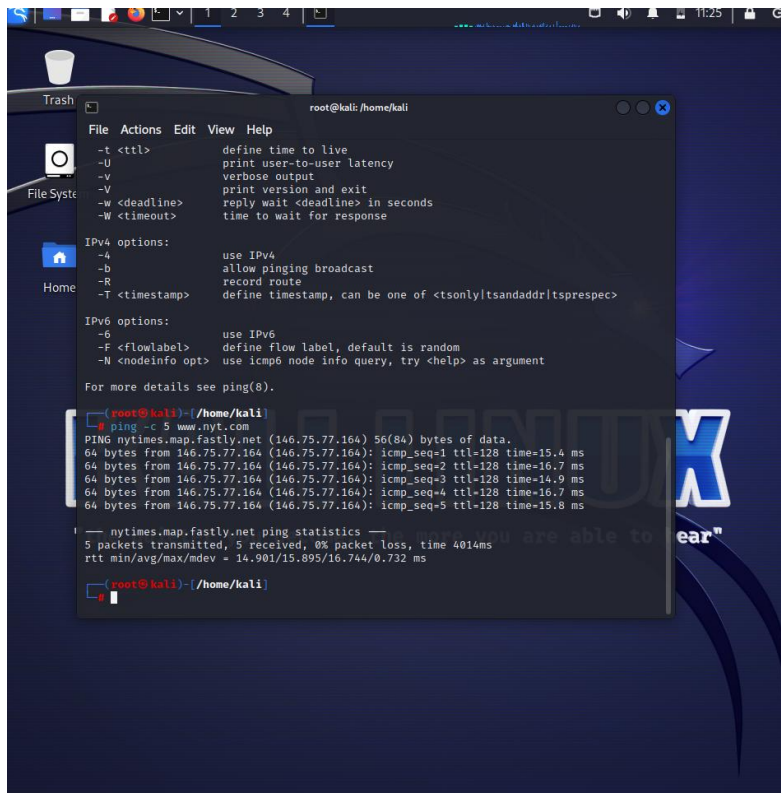
(root@kali)-[/home/kali]
# netstat -tuln
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN
tcp6       0      0 :::22                  :::*                    LISTEN

(root@kali)-[/home/kali]
# service ssh stop
```

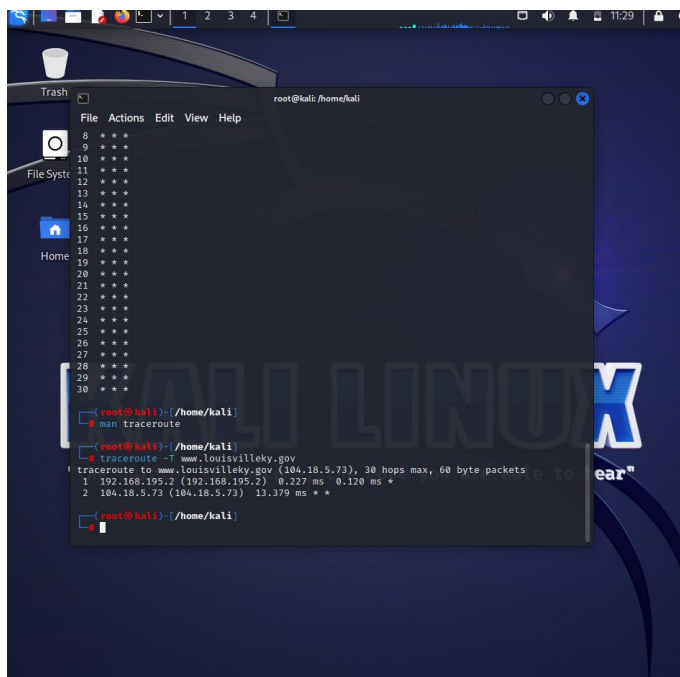
## Task 1 IP Netmask Broadcast



Task 2 ping with 5 echo requests



## Traceroute using TCP Syn



## Wget



```
(root@kali)-[/home/kali]
# wget www.uky.edu
--2023-09-02 12:23:23-- http://www.uky.edu/
Resolving www.uky.edu (www.uky.edu) ... 128.163.35.46
Connecting to www.uky.edu (www.uky.edu)|128.163.35.46|:80... connected.
HTTP request sent, awaiting response ... 302 Moved Temporarily
Location: https://www.uky.edu [following]
--2023-09-02 12:23:24-- https://www.uky.edu/
Connecting to www.uky.edu (www.uky.edu)|128.163.35.46|:443... connected.
HTTP request sent, awaiting response ... 200 OK
Length: 95486 (93K) [text/html]
Saving to: 'index.html.1'

index.html.1          100%[=====>] 93.25K  --.-KB/s   in 0.1s

2023-09-02 12:23:24 (776 KB/s) - 'index.html.1' saved [95486/95486]
```