Practical No: 07

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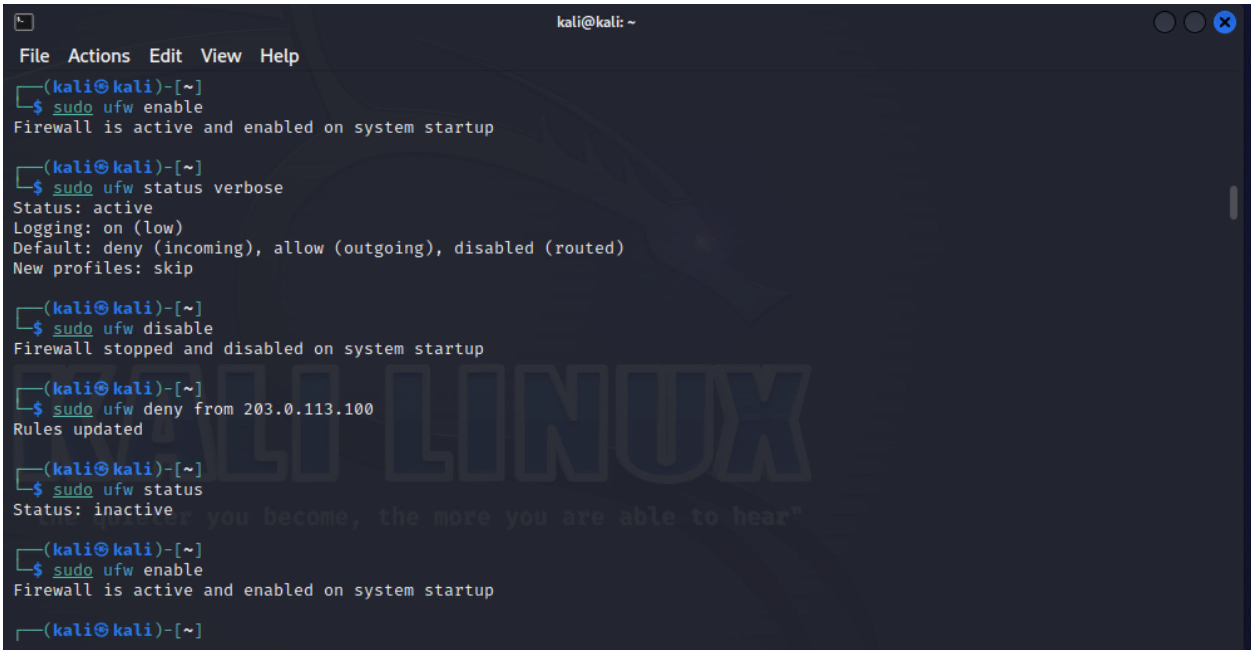
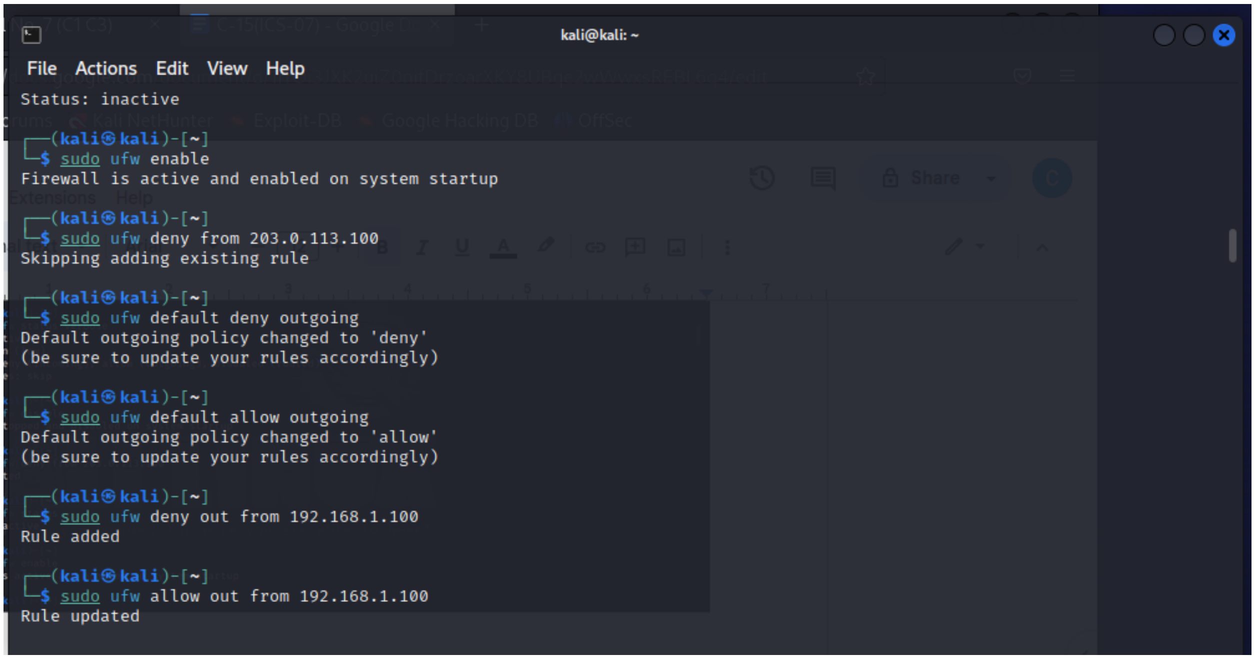
Roll No: C1-13

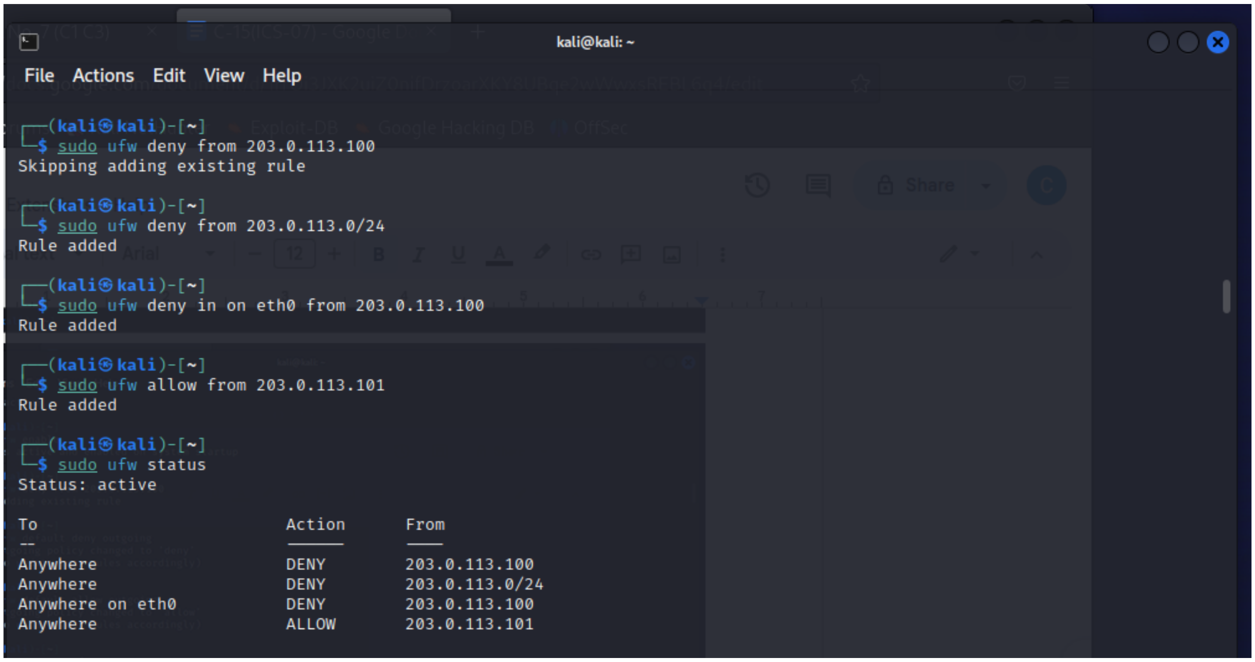
Aim: UFW Essentials: Common Firewall Rules and Commands



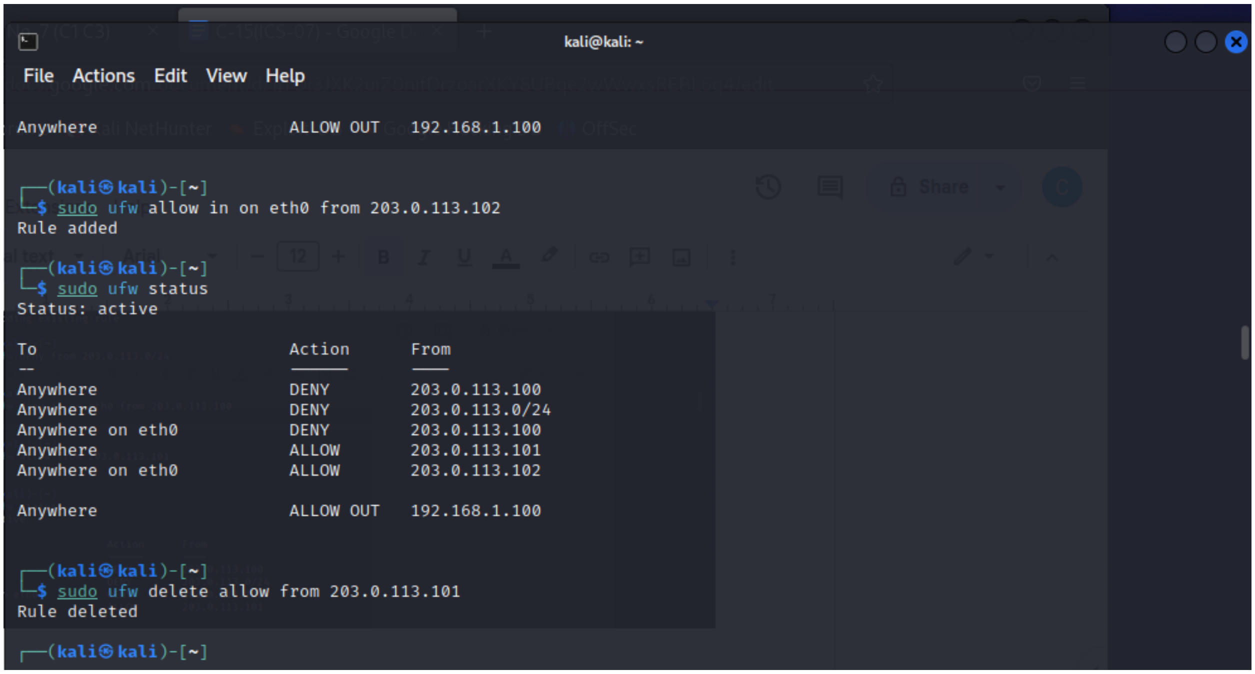
```
┌──(kali㉿kali)-[~]
└─$ sudo ufw enable
Firewall is active and enabled on system startup

┌──(kali㉿kali)-[~]
└─$ sudo ufw status verbose
Status: active
Logging: on (low)
Default: deny (incoming), allow (outgoing), disabled (routed)
New profiles: skip

┌──(kali㉿kali)-[~]
└─$ sudo ufw disable
Firewall stopped and disabled on system startup

┌──(kali㉿kali)-[~]
└─$ sudo ufw deny from 203.0.113.100
Rules updated

┌──(kali㉿kali)-[~]
└─$ sudo ufw status
Status: inactive

┌──(kali㉿kali)-[~]
└─$ sudo ufw enable
Firewall is active and enabled on system startup

┌──(kali㉿kali)-[~]
```



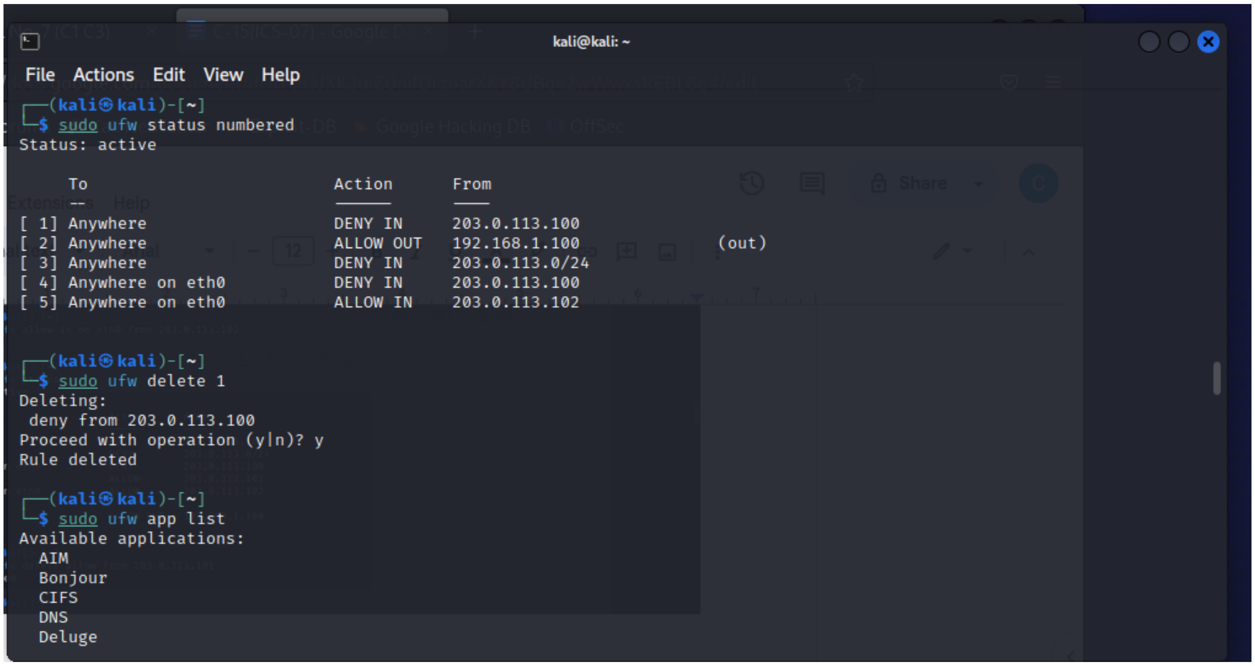
```
Status: inactive

┌──(kali㉿kali)-[~]
└─$ sudo ufw enable
Firewall is active and enabled on system startup

┌──(kali㉿kali)-[~]
└─$ sudo ufw deny from 203.0.113.100
Skipping adding existing rule

┌──(kali㉿kali)-[~]
└─$ sudo ufw default deny outgoing
Default outgoing policy changed to 'deny'
(be sure to update your rules accordingly)

┌──(kali㉿kali)-[~]
└─$ sudo ufw default allow outgoing
Default outgoing policy changed to 'allow'
(be sure to update your rules accordingly)

┌──(kali㉿kali)-[~]
└─$ sudo ufw deny out from 192.168.1.100
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow out from 192.168.1.100
Rule updated
```



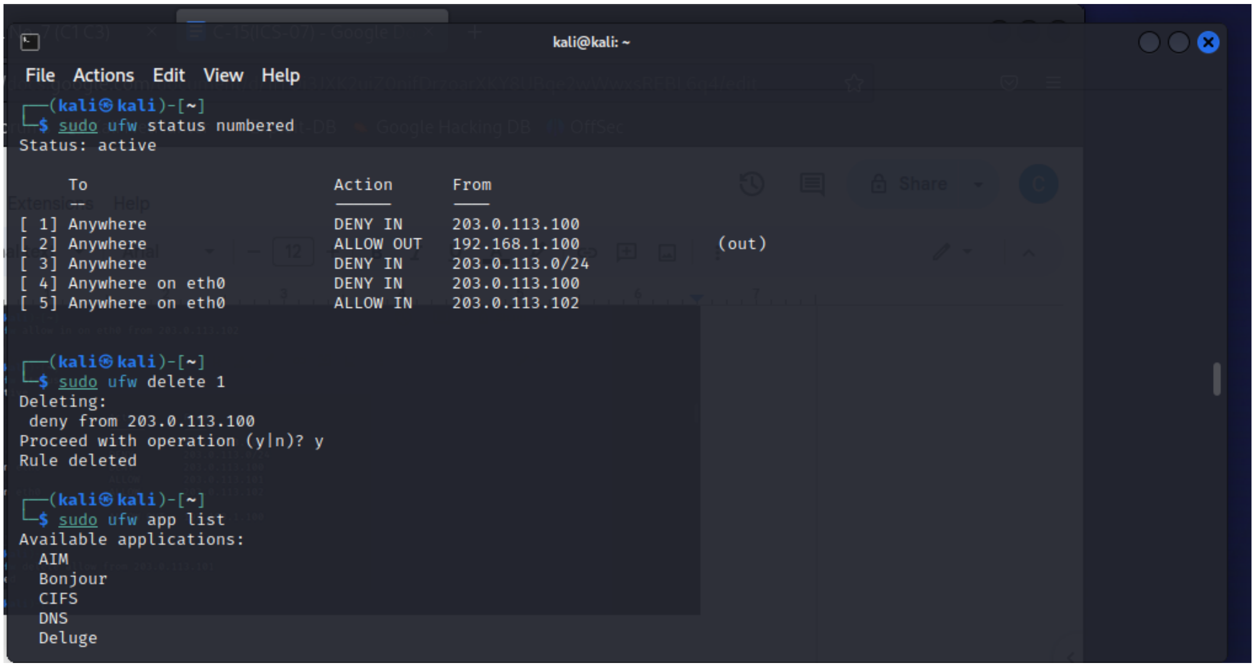
```
┌──(kali㉿kali)-[~]
└─$ sudo ufw deny from 203.0.113.100
Skipping adding existing rule

┌──(kali㉿kali)-[~]
└─$ sudo ufw deny from 203.0.113.0/24
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw deny in on eth0 from 203.0.113.100
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow from 203.0.113.101
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw status
Status: active

To                         Action      From
--                         ------      ----
Anywhere                   DENY        203.0.113.100
Anywhere                   DENY        203.0.113.0/24
Anywhere on eth0           DENY        203.0.113.100
Anywhere                   ALLOW       203.0.113.101
```



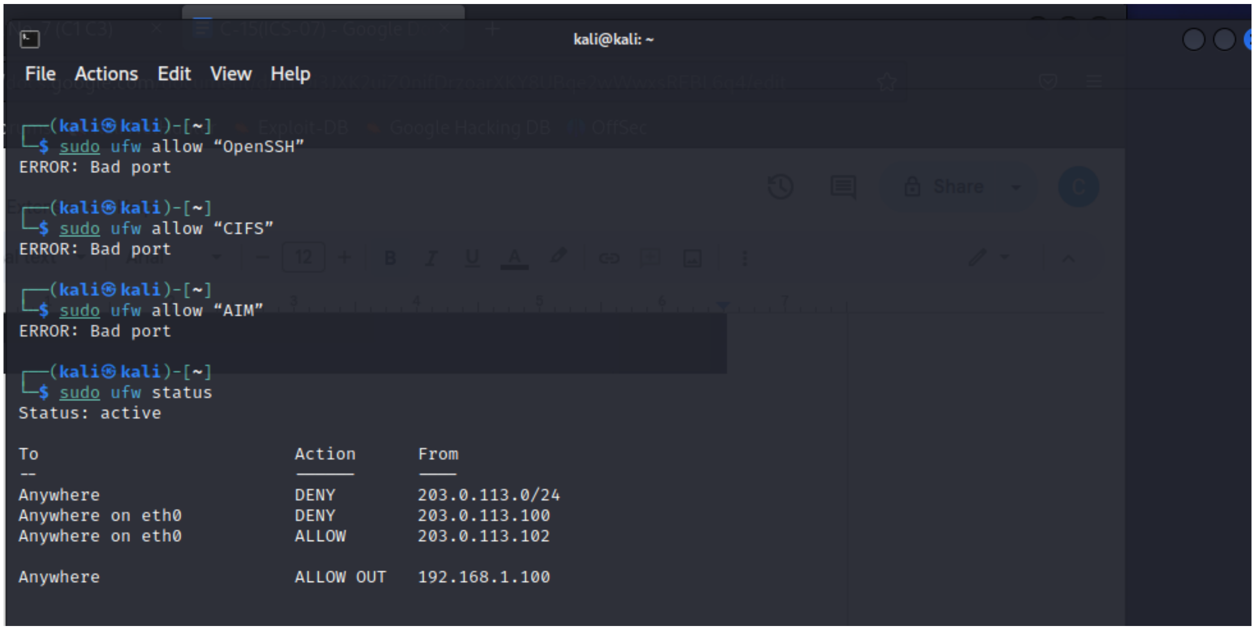
```
Anywhere                   ALLOW OUT   192.168.1.100


┌──(kali㉿kali)-[~]
└─$ sudo ufw allow in on eth0 from 203.0.113.102
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw status
Status: active

To                         Action      From
--                         ------      ----
Anywhere                   DENY        203.0.113.100
Anywhere                   DENY        203.0.113.0/24
Anywhere on eth0           DENY        203.0.113.100
Anywhere                   ALLOW       203.0.113.101
Anywhere on eth0           ALLOW       203.0.113.102

Anywhere                   ALLOW OUT   192.168.1.100


┌──(kali㉿kali)-[~]
└─$ sudo ufw delete allow from 203.0.113.101
Rule deleted

┌──(kali㉿kali)-[~]
```



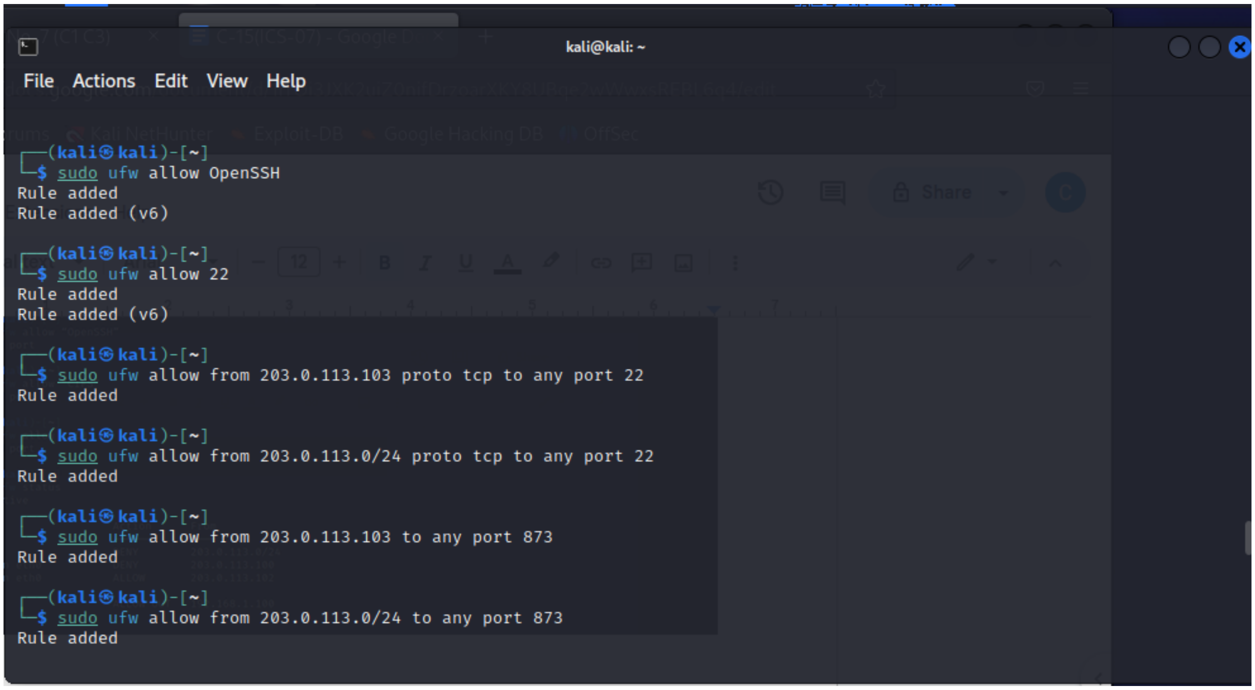
```
┌──(kali㉿kali)-[~]
└─$ sudo ufw status numbered
Status: active

     To                         Action      From
     --                         ------      ----
[ 1] Anywhere                   DENY IN     203.0.113.100
[ 2] Anywhere                   ALLOW OUT   192.168.1.100              (out)
[ 3] Anywhere                   DENY IN     203.0.113.0/24
[ 4] Anywhere on eth0           DENY IN     203.0.113.100
[ 5] Anywhere on eth0           ALLOW IN    203.0.113.102


┌──(kali㉿kali)-[~]
└─$ sudo ufw delete 1
Deleting:
 deny from 203.0.113.100
Proceed with operation (y|n)? y
Rule deleted

┌──(kali㉿kali)-[~]
└─$ sudo ufw app list
Available applications:
  AIM
  Bonjour
  CIFS
  DNS
  Deluge
```



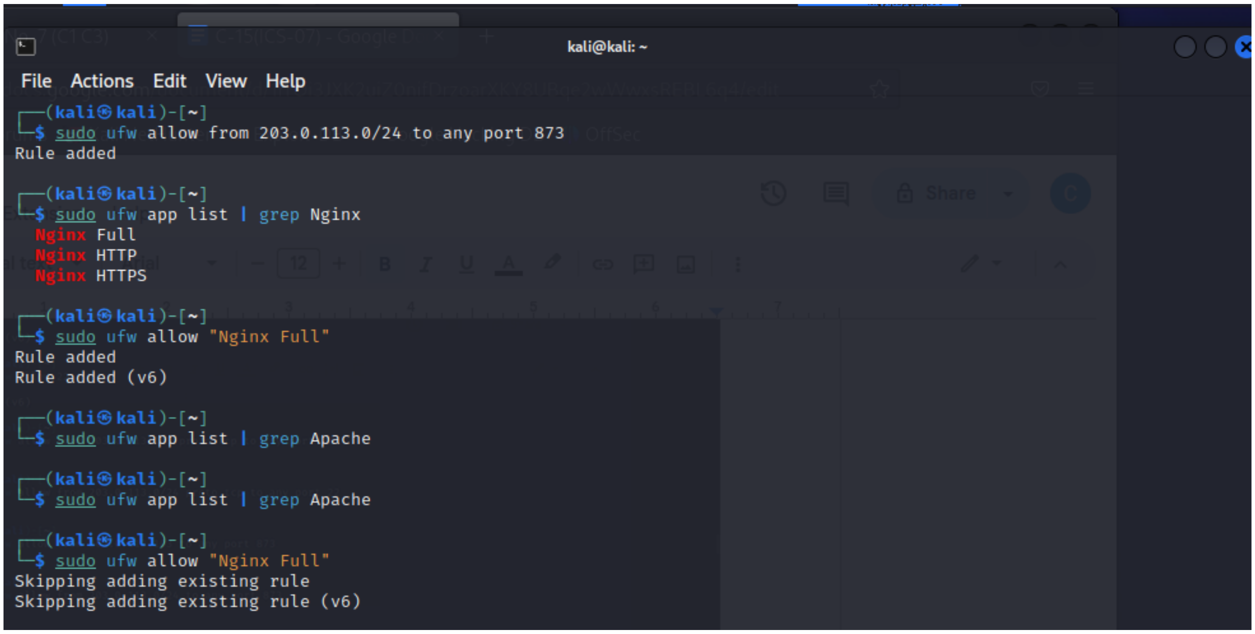
```
┌──(kali㉿kali)-[~]
└─$ sudo ufw status numbered
Status: active

     To                         Action      From
     --                         ------      ----
[ 1] Anywhere                   DENY IN     203.0.113.100
[ 2] Anywhere                   ALLOW OUT   192.168.1.100              (out)
[ 3] Anywhere                   DENY IN     203.0.113.0/24
[ 4] Anywhere on eth0           DENY IN     203.0.113.100
[ 5] Anywhere on eth0           ALLOW IN    203.0.113.102


┌──(kali㉿kali)-[~]
└─$ sudo ufw delete 1
Deleting:
 deny from 203.0.113.100
Proceed with operation (y|n)? y
Rule deleted

┌──(kali㉿kali)-[~]
└─$ sudo ufw app list
Available applications:
  AIM
  Bonjour
  CIFS
  DNS
  Deluge
```



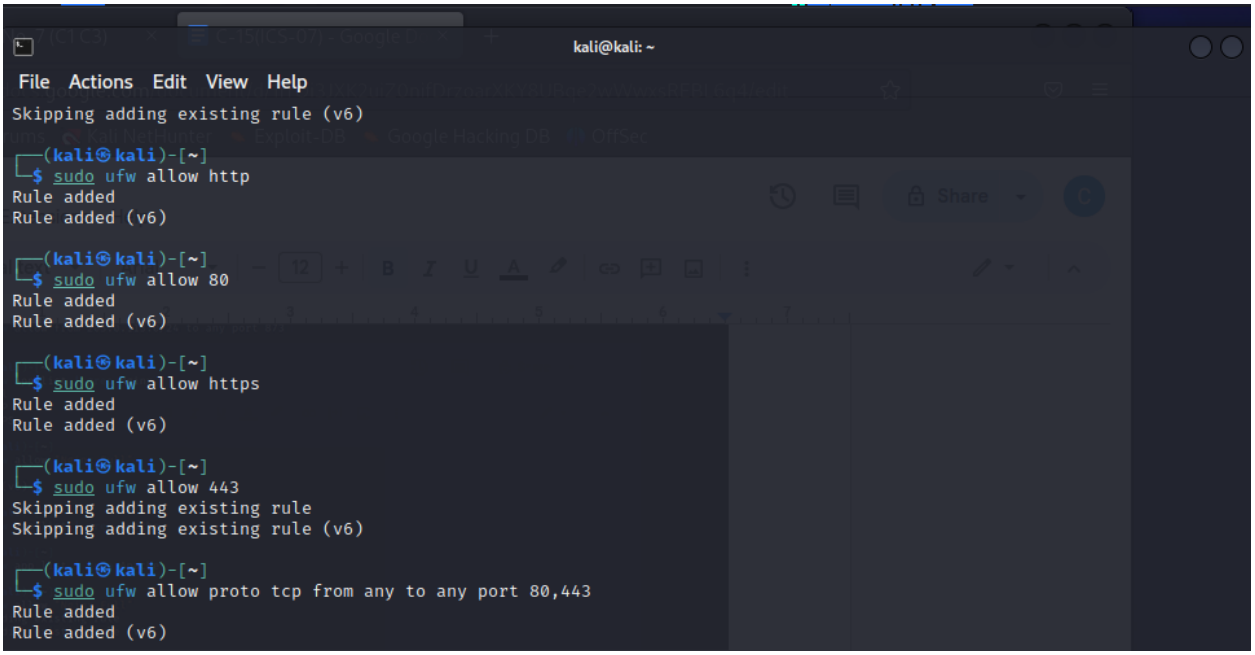
```
┌──(kali㉿kali)-[~]
└─$ sudo ufw allow “OpenSSH”
ERROR: Bad port

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow “CIFS”
ERROR: Bad port

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow “AIM”
ERROR: Bad port

┌──(kali㉿kali)-[~]
└─$ sudo ufw status
Status: active

To                           Action      From
--                           ------      ----
Anywhere                     DENY        203.0.113.0/24
Anywhere on eth0             DENY        203.0.113.100
Anywhere on eth0             ALLOW       203.0.113.102

Anywhere                     ALLOW OUT   192.168.1.100
```



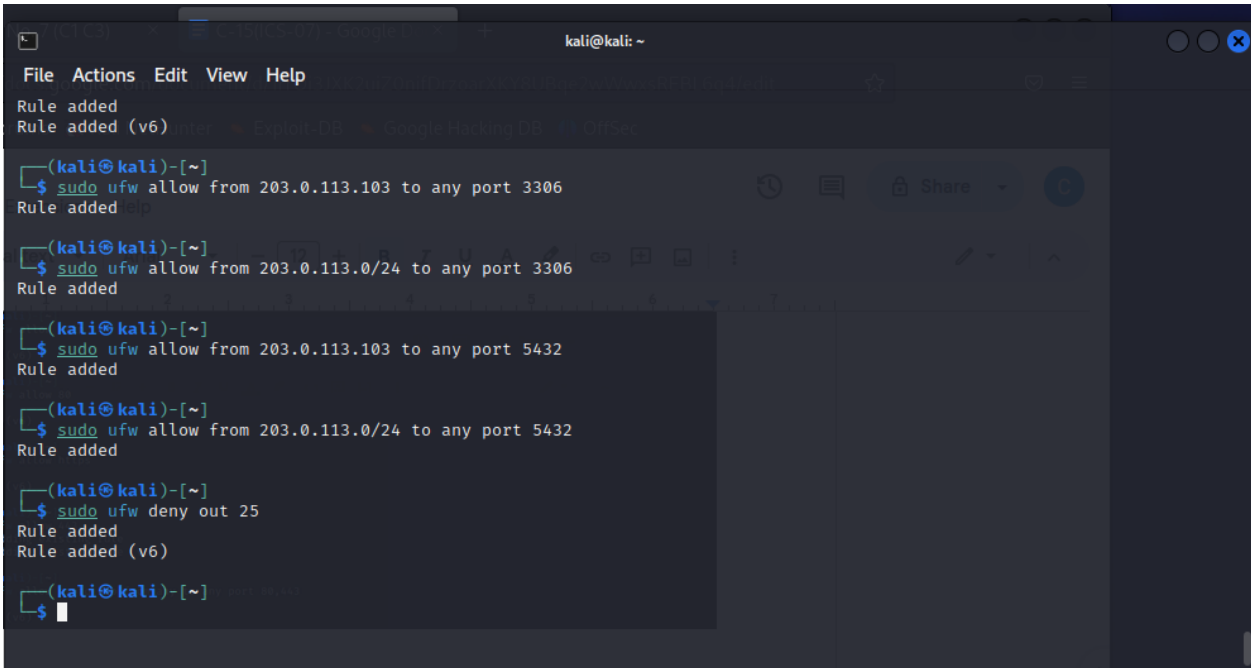
```
┌──(kali㉿kali)-[~]
└─$ sudo ufw allow OpenSSH
Rule added
Rule added (v6)

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow 22
Rule added
Rule added (v6)

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow from 203.0.113.103 proto tcp to any port 22
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow from 203.0.113.0/24 proto tcp to any port 22
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow from 203.0.113.103 to any port 873
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow from 203.0.113.0/24 to any port 873
Rule added
```



```
┌──(kali㉿kali)-[~]
└─$ sudo ufw allow from 203.0.113.0/24 to any port 873
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw app list | grep Nginx
  Nginx Full
  Nginx HTTP
  Nginx HTTPS

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow "Nginx Full"
Rule added
Rule added (v6)

┌──(kali㉿kali)-[~]
└─$ sudo ufw app list | grep Apache

┌──(kali㉿kali)-[~]
└─$ sudo ufw app list | grep Apache

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow "Nginx Full"
Skipping adding existing rule
Skipping adding existing rule (v6)
```



```
Skipping adding existing rule (v6)

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow http
Rule added
Rule added (v6)

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow 80
Rule added
Rule added (v6)

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow https
Rule added
Rule added (v6)

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow 443
Skipping adding existing rule
Skipping adding existing rule (v6)

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow proto tcp from any to any port 80,443
Rule added
Rule added (v6)
```



```
Rule added
Rule added (v6)

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow from 203.0.113.103 to any port 3306
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow from 203.0.113.0/24 to any port 3306
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow from 203.0.113.103 to any port 5432
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw allow from 203.0.113.0/24 to any port 5432
Rule added

┌──(kali㉿kali)-[~]
└─$ sudo ufw deny out 25
Rule added
Rule added (v6)

┌──(kali㉿kali)-[~]
└─$ 
```