

## 1. Добавил репозиторий через PPA

>history

```
2 apt-add-repository ppa:nginx/stable
19 cat etc/apt/sources.list.d/nginx-ubuntu-stable-bionic.list
```

```
root@ip-172-31-23-74:/# ll
total 88
drwxr-xr-x 23 root root 4096 May 27 14:43 ./
drwxr-xr-x 23 root root 4096 May 27 14:43 ../
drwxr-xr-x 2 root root 4096 Apr 8 17:40 bin/
drwxr-xr-x 3 root root 4096 Apr 8 17:43 boot/
drwxr-xr-x 15 root root 2980 May 27 14:43 dev/
drwxr-xr-x 89 root root 4096 May 27 14:43 etc/
drwxr-xr-x 3 root root 4096 May 27 14:43 home/
lrwxrwxrwx 1 root root 31 Apr 8 17:43 initrd.img -> boot/initrd.img-4.15.0-1065-aws
lrwxrwxrwx 1 root root 31 Apr 8 17:43 initrd.img.old -> boot/initrd.img-4.15.0-1065-aws
drwxr-xr-x 20 root root 4096 Apr 8 17:38 lib/
drwxr-xr-x 2 root root 4096 Apr 8 17:35 lib64/
drwx----- 2 root root 16384 Apr 8 17:41 lost+found/
drwxr-xr-x 2 root root 4096 Apr 8 17:35 media/
drwxr-xr-x 2 root root 4096 Apr 8 17:35 mnt/
drwxr-xr-x 2 root root 4096 Apr 8 17:35 opt/
dr-xr-xr-x 115 root root 0 May 27 14:43 proc/
drwx----- 4 root root 4096 May 27 14:43 root/
drwxr-xr-x 25 root root 880 May 27 14:44 run/
drwxr-xr-x 2 root root 4096 Apr 8 17:40 sbin/
drwxr-xr-x 5 root root 4096 May 27 14:43 snap/
drwxr-xr-x 2 root root 4096 Apr 8 17:35 srv/
dr-xr-xr-x 13 root root 0 May 27 15:00 sys/
drwxrwxrwt 10 root root 4096 May 27 14:59 tmp/
drwxr-xr-x 10 root root 4096 Apr 8 17:35 usr/
drwxr-xr-x 13 root root 4096 Apr 8 17:40 var/
lrwxrwxrwx 1 root root 28 Apr 8 17:43 vmlinuz -> boot/vmlinuz-4.15.0-1065-aws
lrwxrwxrwx 1 root root 28 Apr 8 17:43 vmlinuz.old -> boot/vmlinuz-4.15.0-1065-aws
root@ip-172-31-23-74:/# cat etc/apt/sources.list.d/nginx-ubuntu-stable-bionic.list
deb http://ppa.launchpad.net/nginx/stable/ubuntu bionic main
# deb-src http://ppa.launchpad.net/nginx/stable/ubuntu bionic main
root@ip-172-31-23-74:/#
```

## 2. Через snap установил nmap

>history

```
48 apt install nginx
49 dpkg -l | grep nginx
50 dpkg -r nginx
51 snap --help
```

```
t nginx 1.16.1-0+bionic1 all small, powerful, sca
able web/proxy server
i nginx-common 1.16.1-0+bionic1 all small, powerful, sca
able web/proxy server - common files
i nginx-full 1.16.1-0+bionic1 amd64 nginx web/proxy serv
r (standard version)
oot@ip-172-31-23-74:/# dpkg -r nginx
Reading database ... 56940 files and directories currently installed.)
removing nginx (1.16.1-0+bionic1) ...
oot@ip-172-31-23-74:/#
```

```
52 snap install nmap
55 snap list
56 snap remove nmap
```

```
root@ip-172-31-23-74:/# snap list
Name            Version    Rev    Tracking    Publisher    Notes
amazon-ssm-agent 2.3.714.0 1566   latest/stable/_ aws✓         classic
core             16-2.44.1 8935   latest/stable canonical✓    core
core18           20200427 1754   latest/stable canonical✓    base
nmap             7.80      823    latest/stable maxiberta    -
root@ip-172-31-23-74:/# snap remove nmap
nmap removed
root@ip-172-31-23-74:/#
```

**3. Создал правило чтобы могли все подключаться только через 80 и 22 порты.  
Настроили проброс с локального порта 80 на локальный 8080**

```
61 iptables -A INPUT -p tcp --dport 22 -j ACCEPT
62 iptables -A INPUT -p tcp --dport 80 -j ACCEPT
63 iptables -L
```

```
64 sysctl -w net.ipv4.ip_forward=1
65 iptables -A FORWARD -j ACCEPT
```

```
84 iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to-port
8080
```

```
root@ip-172-31-23-74:/# iptables -L
Chain INPUT (policy ACCEPT)
target     prot opt source                destination            tcp dpt:http
ACCEPT     tcp  --  anywhere              anywhere              tcp dpt:ssh

Chain FORWARD (policy ACCEPT)
target     prot opt source                destination            anywhere

Chain OUTPUT (policy ACCEPT)
target     prot opt source                destination
```

**!!!!!!4. Не получилось настроить проброс с локального порта 8080 на внешний 80.  
Подумал том по идее такая операция относится к POSTROUTING, однако выдавал  
ошибку Invalid Arguments**

```
124 iptables -t nat -A POSTROUTING -p tcp --dport 8080 -j REDIRECT --to-port
80
```