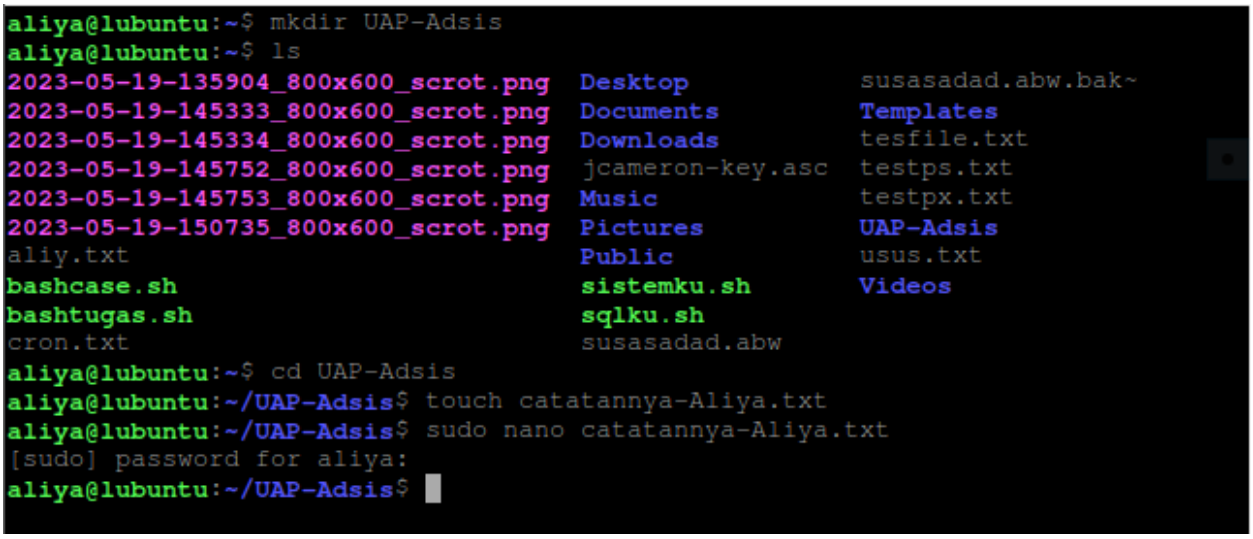
Nama : Aliya Faradila

Kelas : ADSIS-E

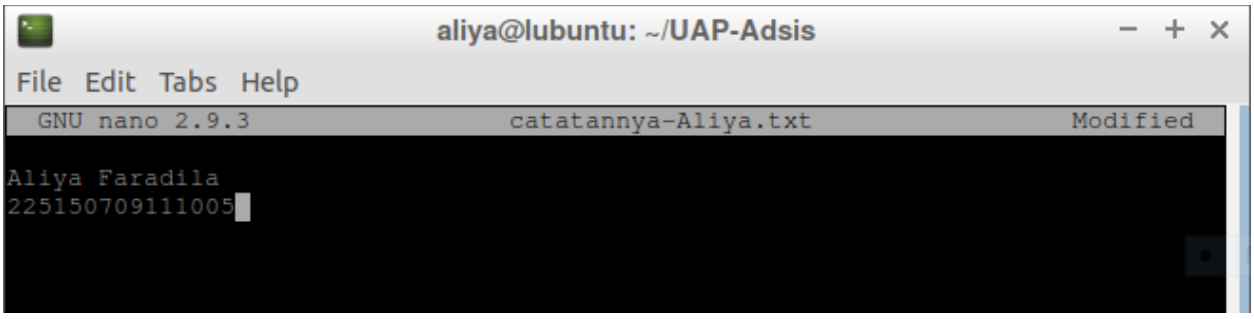
NIM : 225150709111005

1. Buat direktori dengan nama UAP-Adsis, isi dengan file txt dengan format penamaan catatannya-<nama kamu>.txt, kemudian isi file txt tersebut dengan nama dan NIM kamu. Kemudian atur permission view-only pada file tersebut untuk user biasa. Tunjukkan bukti berupa screenshot yang menunjukkan bahwa file tersebut berhasil diatur permissionnya menjadi view-only untuk user biasa.

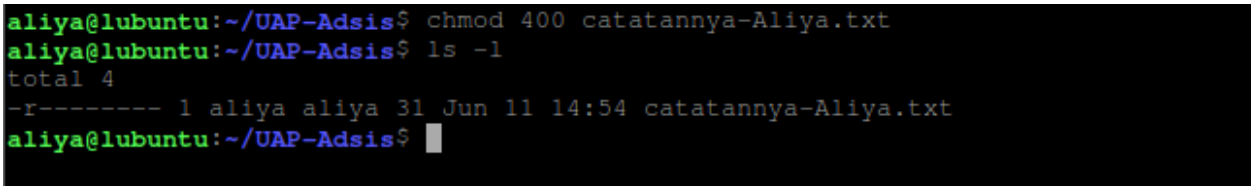
   Jawaban :



Membuat folder “UAP-Adsis” dan mengecek apakah berhasil membuat folder, selanjutnya membuat file “catatannya-Aliya.txt”



Menambahkan nama dan nim pada file “catatannya-Aliya.txt”



Mengubah permission untuk user biasa hanya view/melihat

2. Lakukan konfigurasi alamat IP address sementara pada sistem dan default gateway. (petunjuk 192.168.56.x | x adalah nomor absen)

Jawaban :

```
aliya@lubuntu:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
        inet6 fe80::a00:27ff:feda:1e93  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:da:1e:93  txqueuelen 1000  (Ethernet)
        RX packets 1119  bytes 122848 (122.8 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 1149  bytes 114597 (114.5 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.56.108  netmask 255.255.255.0  broadcast 192.168.56.255
        inet6 fe80::a00:27ff:fe54:ce85  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:54:ce:85  txqueuelen 1000  (Ethernet)
        RX packets 29  bytes 4771 (4.7 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 37  bytes 5362 (5.3 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 204  bytes 15964 (15.9 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 204  bytes 15964 (15.9 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

aliya@lubuntu:~$
```

Mengecek ip awal pada enp0s8

```
aliya@lubuntu:~$ sudo ifconfig enp0s8 192.168.56.23 netmask 255.255.255.0
aliya@lubuntu:~$
```

Melakukan perubahan ip pada enp0s8

```
aliya@lubuntu:~$ ifconfig enp0s8
enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.56.23  netmask 255.255.255.0  broadcast 192.168.56.255
        inet6 fe80::a00:27ff:fe54:ce85  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:54:ce:85  txqueuelen 1000  (Ethernet)
        RX packets 36  bytes 5383 (5.3 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 45  bytes 6934 (6.9 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

aliya@lubuntu:~$
```

Ip enp0s8 berhasil berubah

```
aliya@lubuntu:~$ sudo ip route add default via 192.168.56.1
aliya@lubuntu:~$ sudo route -n
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use Iface
0.0.0.0         192.168.56.1    0.0.0.0         UG    0      0        0 enp0s8
0.0.0.0         10.0.2.2        0.0.0.0         UG    100    0        0 enp0s3
10.0.2.0        0.0.0.0         255.255.255.0   U     100    0        0 enp0s3
192.168.56.0    0.0.0.0         255.255.255.0   U     101    0        0 enp0s8
192.168.56.0    0.0.0.0         255.255.255.0   U     101    0        0 enp0s8
aliya@lubuntu:~$
```

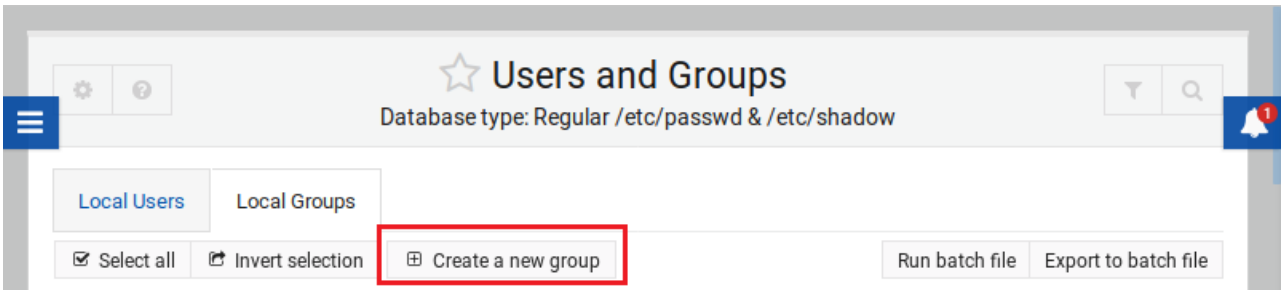
Mengubah default gateway menjadi “192.168.56.1” dan mengecek apakah telah berhasil.

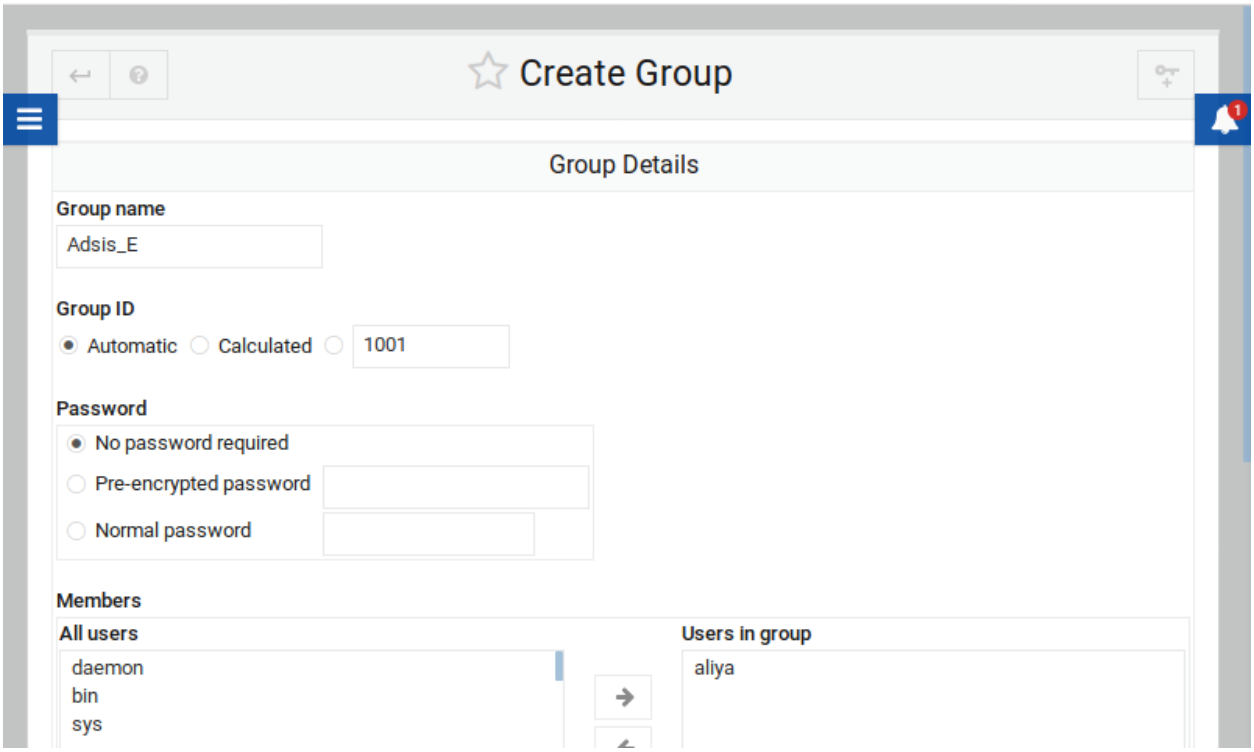
3. Lakukan Instalasi Webmin lalu buatlah user bernama nama anda, lalu buat group Adsis_(kelas masing-masing) dan masukkan nama anda di group

Jawaban :

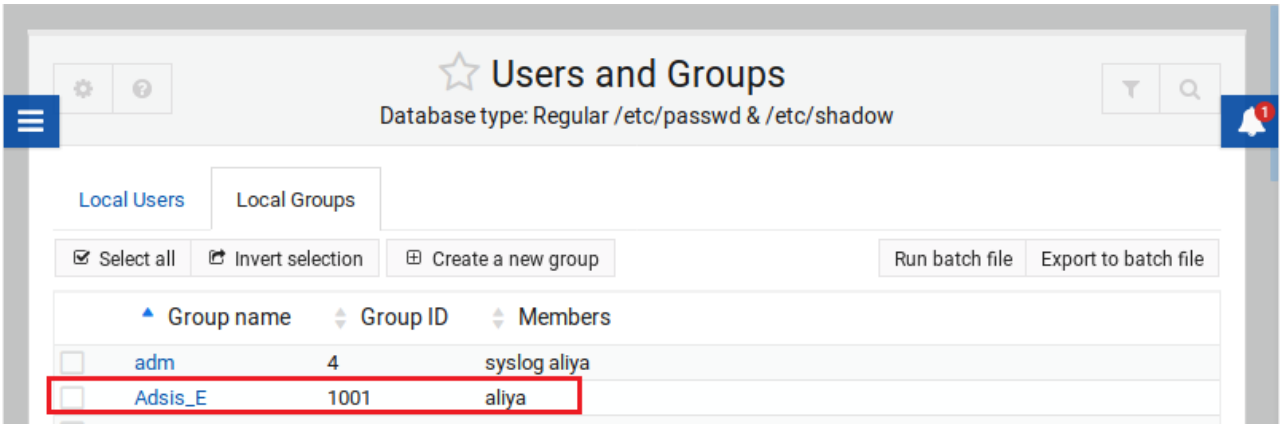
```
aliya@lubuntu:~$ sudo apt-get install webmin
Reading package lists... Done
Building dependency tree
Reading state information... Done
webmin is already the newest version (2.021).
0 upgraded, 0 newly installed, 0 to remove and 591 not upgraded.
aliya@lubuntu:~$
```

Sudah melakukan instalasi lanjut ke tahap berikutnya





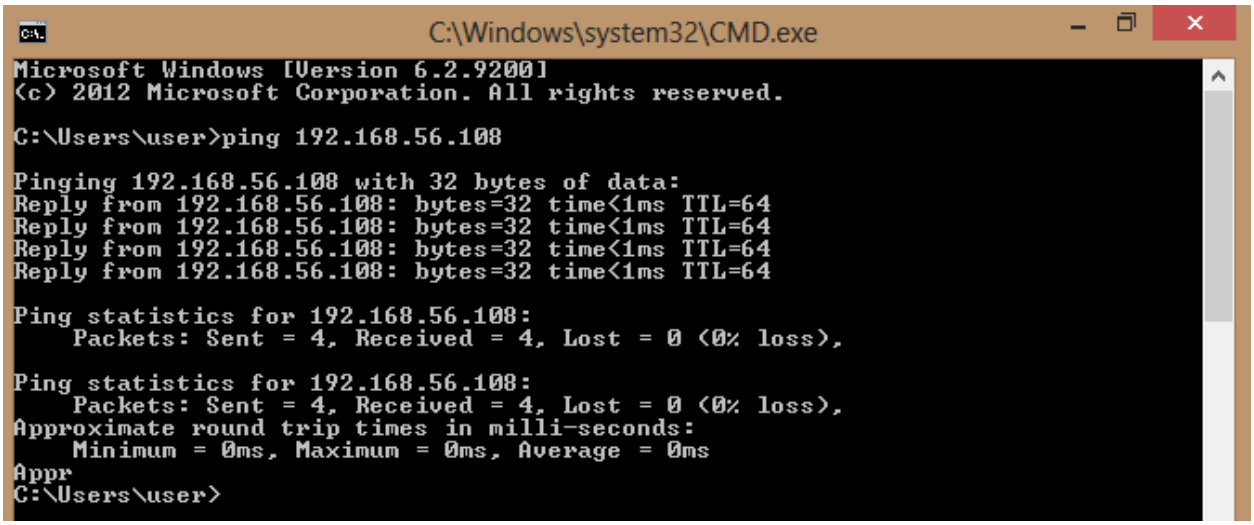
Membuat grup dengan nama Adsis_E dan memasukkan nama “aliya” pada grup Adsis_E



Berhasil membuat grup Adsis_E dan memasukkan “aliya” pada grup.

4. Lakukan ping ke alamat ip anda dan coba lakukan reject dan drop di webmin, lalu analisis apa yang terjadi?

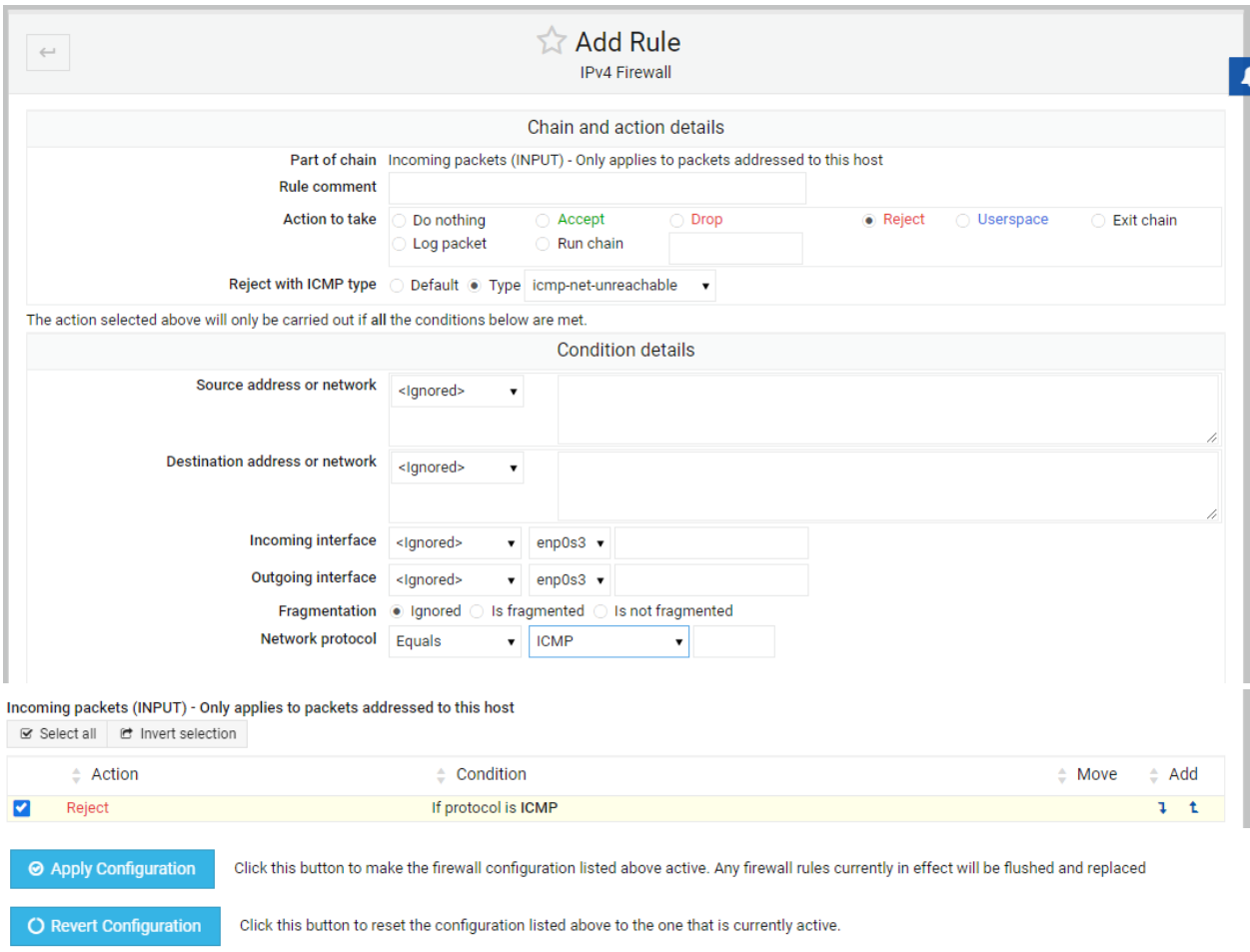
Jawaban :



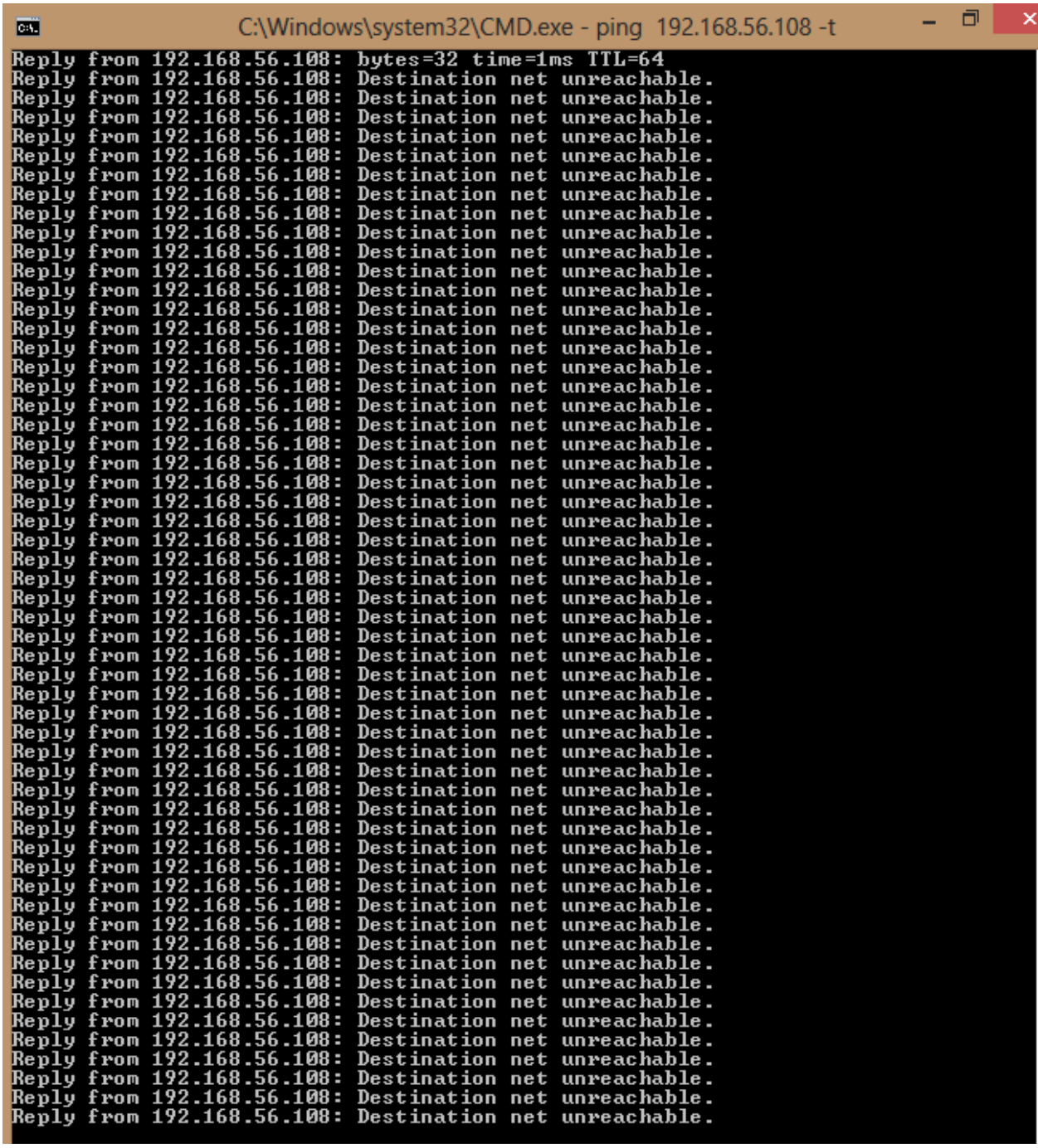
Melakukan ping ke ip ubuntu dan Pada gambar diatas proses ping berhasil dilakukan dengan adanya reply dari server.

Masuk pada webmin dan memilih incoming packets (INPUT) kemudian Add Rule.

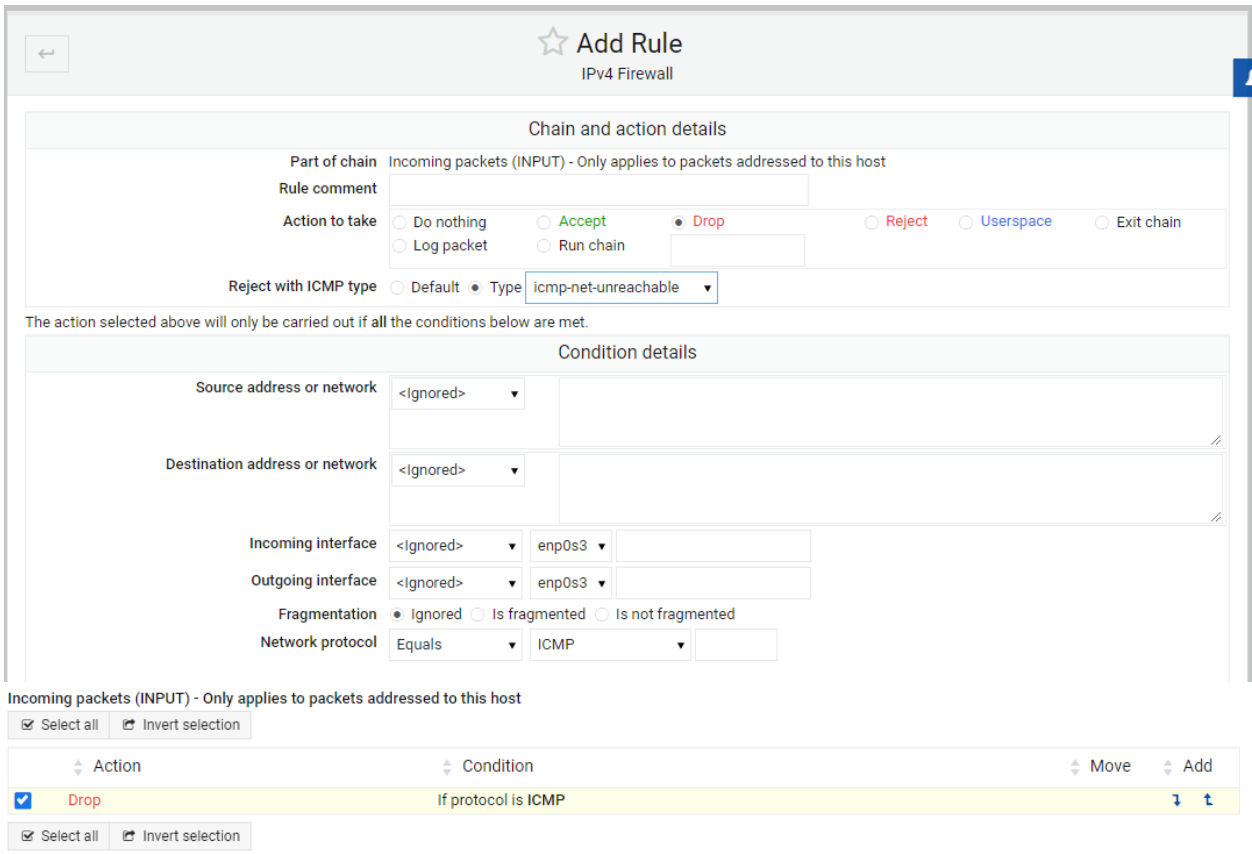
1) Membuat rule Reject, kemudian save changes lalu klik apply configuration.



Paket ICMP atau Ping berhasil di reject. Melakukan test ping lagi kepada ip ubuntu dan gagal hal ini dikarenakan kita telah membuat sebuah rule firewall pada ipv4 yang dimana kita tidak bisa memping atau memblok sehingga muncul destination net unreachable.



2) Membuat rule Drop, kemudian save changes lalu klik apply configuration.



Incoming packets (INPUT) - Only applies to packets addressed to this host

Select all | Invert selection

	Action	Condition	Move	Add
☑	Drop	If protocol is **ICMP**	↴	↥

Select all | Invert selection

```
C:\Windows\system32\CMD.exe - ping  192.168.56.108 -t
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time=1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time=4ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
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Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Reply from 192.168.56.108: bytes=32 time<1ms TTL=64
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
```

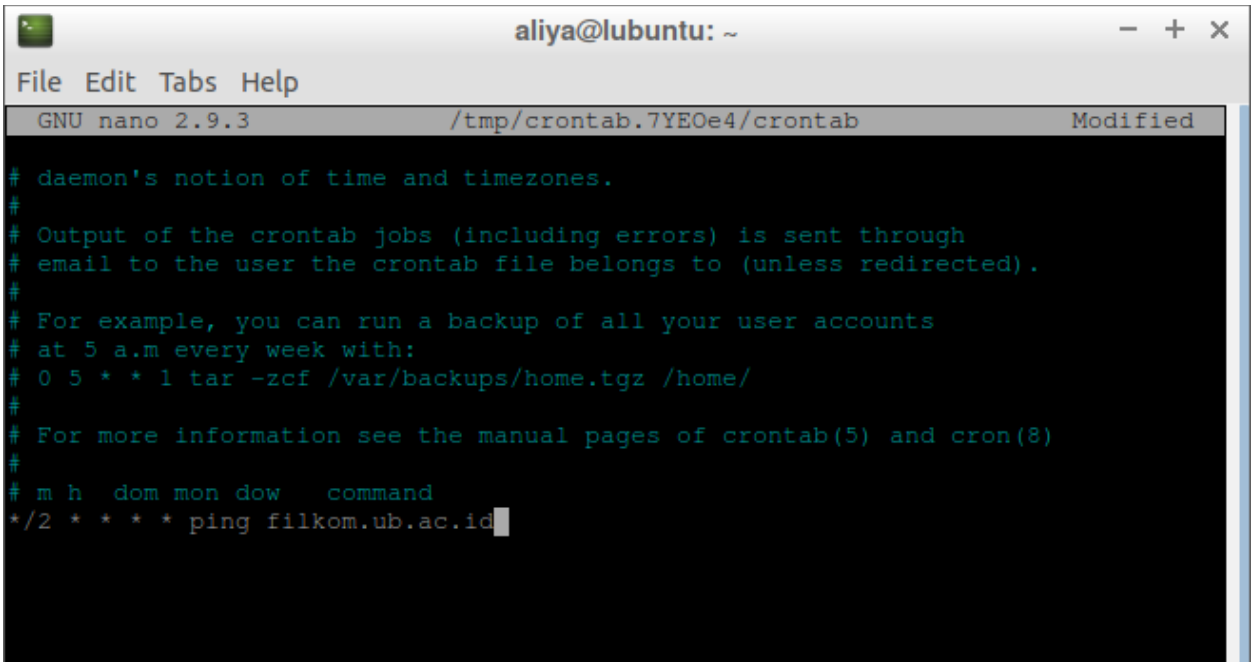
Paket ICMP atau Ping berhasil di drop. Melakukan test ping lagi kepada ip ubuntu dan gagal sehingga Request Timed Out.

5. Buatlah perintah otomatis yang berfungsi untuk ping www.filkom.ub.ac.id

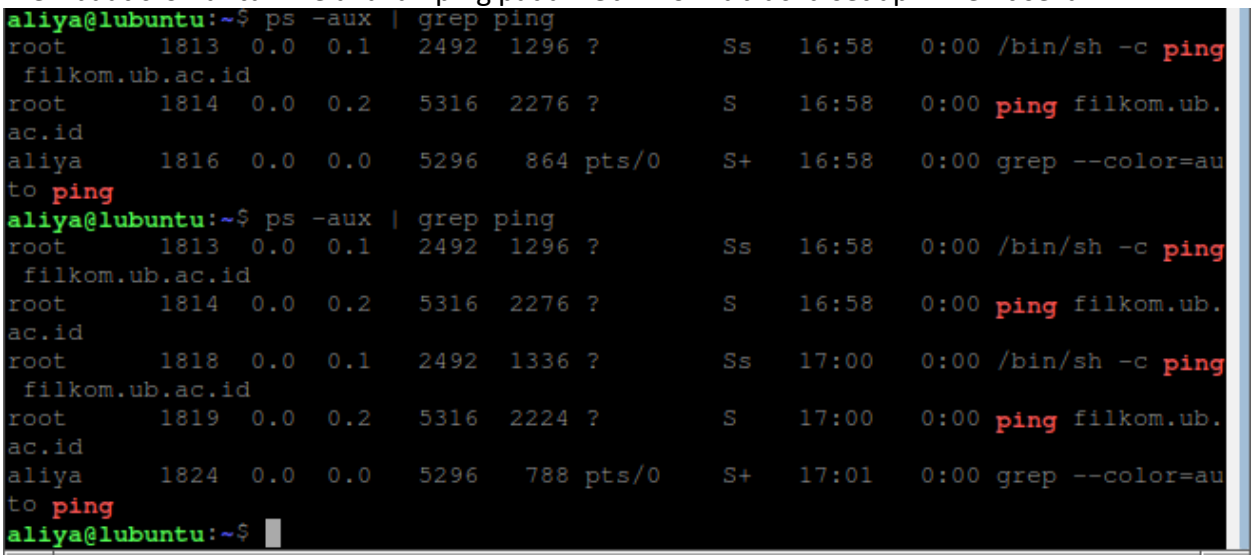
Jawaban :

```
aliya@lubuntu:~$ sudo crontab -e
```

Buka Crontab untuk menyetting perintah otomatis



Membuat cron untuk melakukan ping pada web filkom.ub.ac.id setiap 2 menit sekali.



Berhasil memping web filkom.ub.ac.id setiap 2 menit.