

## Time taken for packet and flow

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### SSH time taken from linux server to Router

```
lavanya@lavanya-VirtualBox:~$ python ssh_time.py
0:00:01.378443
```

Logic :

```
t1=datetime.datetime.now()
ssh_client.connect(hostname="10.0.0.2",username="lavanya",password="lavanya")
print(datetime.datetime.now()-t1)
```

### Round trip extended ping average time

```
R3#ping ip 192.168.56.106 source 1.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.56.106, timeout is 2 seconds:
Packet sent with a source address of 1.0.0.1
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 20/31/72 ms
```

### Flow cache timeout + Flow record export

1. Last packet of the flow received at 12:55:12:883

```
first      =      1577085912 [2019-12-23 12:55:12]
last       =      1577085912 [2019-12-23 12:55:12]
msec_first =          699
msec_last  =          883
```

2. Flow timeout as configured on the router

```
ip flow-cache timeout inactive 10
ip flow-cache timeout active 1
```

3. Flow received at the collector

```
received at =      1577085929588 [2019-12-23 12:55:29.588]
```

Time taken for the flow to get exported and reach the collector

12:55:29:588 – 10(timeout)-12:55:12:883 = **6 sec 705 msec**

Avg round trip time = 31 msec

Flow cache timeout = 10 sec

Flow export time = 6 sec 705 msec

**Total : 16 sec 736 msec**

Thanks and Regards,

Lavanya Singaravelan