

## Lab2: AWS Architecture

1.Looking at the ping latency information, answer the following questions.

1.1. What is the RTT (round-trip-time) between your instances and Thailand?

**Ans:** If we ping from N.Virginia instances the latency average time is very high that shows 226.882 ms to [www.pantip.com](http://www.pantip.com) and 301.267 to [www.chantrip.in.th](http://www.chantrip.in.th). In the other hand, if we ping from instances Singapore the latency is very less shows 1.928 ms to [www.pantip.com](http://www.pantip.com) and 29.333 ms to [www.chantrip.in.th](http://www.chantrip.in.th).

Destination Thailand	N.virginia Avs RTT(ms)	Singapore Avs RTT(ms)	Paris Avs RTT(ms)
<a href="http://www.pantip.com">www.pantip.com</a>	226.882	1.928	148.067
<a href="http://www.chantrip.in.th">www.chantrip.in.th</a>	301.267	29.333	193.278

1.2. Are your instances closer to www.google.com than to Thailand?

Ans: The table below show the instance from Paris that closer to google.com than Thailand.

Destination	N.virginia Avs RTT(ms)	Singapore Avs RTT(ms)	Paris Avs RTT(ms)
www.google.com	1.310	2.336	1.045

1.3. Which country do you think [www.google.com](http://www.google.com) is located for each instance? Are they the same or different between your 3 instances?

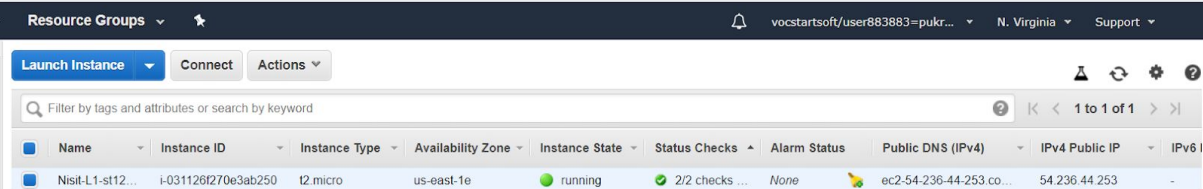
**Ans:** The instance from region N.virginia, Singapore, Paris. There are edge locations [www.google.com](http://www.google.com). Since the RTT is very less, the average time is 1.5 ms for three regions.

2. If you are a user in Thailand, which EC2 instance in which region (from the 3 you tried) is a better choice to use to run services? Why?

**Ans:** EC2 instance in Singapore is better if we compare it to N.Virginia and Paris because the latency time is very less.

## Result RTT latency form Region N.virginia

- ping [www.google.com](http://www.google.com) is rtt min/avg/max = 1.235/1.310/1.388 ms
- ping [www.pantip.com](http://www.pantip.com) is rtt min/avg/max = 226.823/226.882/226.960 ms
- ping [www.chantrip.in.th](http://www.chantrip.in.th) is rtt min/avg/max = 272.623/301.267/379.465 ms



Resource Groups									
vostartsoft/user883883=pukr... N. Virginia Support									
Launch Instance Connect Actions									
Filter by tags and attributes or search by keyword									
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 Public IP
Nisit-L1-st12...	i-031126f270e3ab250	t2.micro	us-east-1e	running	2/2 checks ...	None	ec2-54-236-44-253.co...	54.236.44.253	-

My Classrooms x Workbench x Instances | EC2 M... Lab2: AWS Archite... Log In to Canvas x ec2 user@ip-172-31-51-190--

console.amazonaws.com/ec2/v2/home?region=us-east-1#Instances:sort=statusChecks

Classroom Internet Speed Issu... AWS Cisco Web m... w... IoT Cloud Computing Cisco SFS

Services Resource Groups

New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Feedback English (US)

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone
Nisit-L1-st12...	i-031126f270e3ab250	t2.micro	us-east-1a

### Connect to your instance

Connection method

- ☒ A standalone SSH client
- ☐ Session Manager
- ☐ EC2 Instance Connect (browser-based SSH connection)

To access your instance:

1. Open an SSH client. (find out how to [connect using PuTTY](#))
2. Locate your private key file (nisit-L1.pem). The wizard automatically detects the launch the instance.
3. Your key must not be publicly viewable for SSH to work. Use this command if necessary:  

```
chmod 400 nisit-L1.pem
```
4. Connect to your instance using its Public DNS:  

```
ec2-54-236-44-253.compute-1.amazonaws.com
```

Example:

```
ssh -i "nisit-L1.pem" ec2-user@ec2-54-236-44-253.compute-1.amazonaws.com
```

```
ec2 user@ip-172-31-51-190--
_ _ _ _ _
| | | | |
|_|_|_|_|_|
Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
6 package(s) needed for security, out of 15 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-51-190 ~]$ ping www.google.com -c 4
PING www.google.com (172.217.7.228) 56(84) bytes of data.
64 bytes from iad23s58-in-f4.1e100.net (172.217.7.228): icmp_seq=1 ttl=113 time=1.23 ms
64 bytes from iad23s58-in-f4.1e100.net (172.217.7.228): icmp_seq=2 ttl=113 time=1.30 ms
64 bytes from iad23s58-in-f4.1e100.net (172.217.7.228): icmp_seq=3 ttl=113 time=1.38 ms
64 bytes from iad23s58-in-f4.1e100.net (172.217.7.228): icmp_seq=4 ttl=113 time=1.30 ms
--- www.google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 1.235/1.310/1.388/0.059 ms
[ec2-user@ip-172-31-51-190 ~]$ ping www.pantip.com -c 4
PING pantip.com (139.99.68.204) 56(84) bytes of data.
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=1 ttl=43 time=226 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=2 ttl=43 time=226 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=3 ttl=43 time=226 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=4 ttl=43 time=226 ms
--- pantip.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 226.823/226.882/226.960/0.340 ms
[ec2-user@ip-172-31-51-190 ~]$ ping www.chantrip.in.th -c 4
PING www.chantrip.in.th (119.59.104.33) 56(84) bytes of data.
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=1 ttl=35 time=280 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=2 ttl=35 time=272 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=3 ttl=35 time=272 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=4 ttl=35 time=379 ms
--- www.chantrip.in.th ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3001ms
rtt min/avg/max/mdev = 272.623/301.267/379.465/45.256 ms
[ec2-user@ip-172-31-51-190 ~]$
```

```
ec2-user@ip-172-31-51-190:~  
_ | ( / Amazon Linux 2 AMI  
__ | \__ | __ |  
  
https://aws.amazon.com/amazon-linux-2/  
8 package(s) needed for security, out of 15 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-51-190 ~]$ ping www.google.com -c 4  
PING www.google.com (172.217.7.228) 56(84) bytes of data.  
64 bytes from iad23s58-in-f4.1e100.net (172.217.7.228): icmp_seq=1 ttl=113 time=  
1.23 ms  
64 bytes from iad23s58-in-f4.1e100.net (172.217.7.228): icmp_seq=2 ttl=113 time=  
1.30 ms  
64 bytes from iad23s58-in-f4.1e100.net (172.217.7.228): icmp_seq=3 ttl=113 time=  
1.38 ms  
64 bytes from iad23s58-in-f4.1e100.net (172.217.7.228): icmp_seq=4 ttl=113 time=  
1.30 ms  
  
--- www.google.com ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 3005ms  
rtt min/avg/max/mdev = 1.235/1.310/1.388/0.059 ms  
[ec2-user@ip-172-31-51-190 ~]$ ping www.pantip.com -c 4  
PING pantip.com (139.99.68.204) 56(84) bytes of data.  
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=1 ttl=43 time=  
226 ms  
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=2 ttl=43 time=  
226 ms  
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=3 ttl=43 time=  
226 ms  
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=4 ttl=43 time=  
226 ms  
  
--- pantip.com ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 3000ms  
rtt min/avg/max/mdev = 226.823/226.882/226.960/0.340 ms  
[ec2-user@ip-172-31-51-190 ~]$ ping www.chantrip.in.th -c 4  
PING www.chantrip.in.th (119.59.104.33) 56(84) bytes of data.  
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=1 ttl=35 time=280  
ms  
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=2 ttl=35 time=272  
ms  
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=3 ttl=35 time=272  
ms  
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=4 ttl=35 time=379  
ms  
  
--- www.chantrip.in.th ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 3001ms  
rtt min/avg/max/mdev = 272.623/301.267/379.465/45.256 ms  
[ec2-user@ip-172-31-51-190 ~]$
```

# Result RTT latency form Region Singapore

- ping [www.google.com](http://www.google.com) is rtt min/avg/max = 2.283/2.336/2.391ms
- ping [www.pantip.com](http://www.pantip.com) is rtt min/avg/max = 1.855/1.928/1.978 ms
- ping [www.chantrip.in.th](http://www.chantrip.in.th) is rtt min/avg/max = 29.305/29.333/29.375 ms

```
ec2-user@ip-172-31-35-77:~$ https://aws.amazon.com/amazon-linux-2/
7 package(s) needed for security, out of 14 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-35-77 ~]$ ping www.google.com -c 4
PING www.google.com (74.125.24.104) 56(84) bytes of data.
64 bytes from 74.125.24.104 (74.125.24.104): icmp_seq=1 ttl=52 time=2.28 ms
64 bytes from 74.125.24.104 (74.125.24.104): icmp_seq=2 ttl=52 time=2.39 ms
64 bytes from 74.125.24.104 (74.125.24.104): icmp_seq=3 ttl=52 time=2.33 ms
64 bytes from 74.125.24.104 (74.125.24.104): icmp_seq=4 ttl=52 time=2.33 ms

--- www.google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 2.283/2.336/2.391/0.061 ms
[ec2-user@ip-172-31-35-77 ~]$ ping www.pantip.com -c 4
PING pantip.com (139.99.68.204) 56(84) bytes of data.
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=1 ttl=45 time=1.85 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=2 ttl=45 time=1.97 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=3 ttl=45 time=1.97 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=4 ttl=45 time=1.90 ms

--- pantip.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3003ms
rtt min/avg/max/mdev = 1.855/1.928/1.978/0.059 ms
[ec2-user@ip-172-31-35-77 ~]$ ping www.chantrip.in.th -c 4
PING www.chantrip.in.th (119.59.104.33) 56(84) bytes of data.
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=1 ttl=49 time=29.3 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=2 ttl=49 time=29.3 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=3 ttl=49 time=29.3 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=4 ttl=49 time=29.3 ms

--- www.chantrip.in.th ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 29.305/29.333/29.375/0.211 ms
[ec2-user@ip-172-31-35-77 ~]$
```

<https://aws.amazon.com/amazon-linux-2/>

7 package(s) needed for security, out of 14 available

Run "sudo yum update" to apply all updates.

[ec2-user@ip-172-31-35-77 ~]\$ ping www.google.com -c 4

PING www.google.com (74.125.24.104) 56(84) bytes of data.

64 bytes from 74.125.24.104 (74.125.24.104): icmp\_seq=1 ttl=52 time=2.28 ms

64 bytes from 74.125.24.104 (74.125.24.104): icmp\_seq=2 ttl=52 time=2.39 ms

64 bytes from 74.125.24.104 (74.125.24.104): icmp\_seq=3 ttl=52 time=2.33 ms

64 bytes from 74.125.24.104 (74.125.24.104): icmp\_seq=4 ttl=52 time=2.33 ms

--- www.google.com ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3004ms

rtt min/avg/max/mdev = 2.283/2.336/2.391/0.061 ms

[ec2-user@ip-172-31-35-77 ~]\$ ping www.pantip.com -c 4

PING pantip.com (139.99.68.204) 56(84) bytes of data.

64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp\_seq=1 ttl=45 time=1.85 ms

64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp\_seq=2 ttl=45 time=1.97 ms

64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp\_seq=3 ttl=45 time=1.97 ms

64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp\_seq=4 ttl=45 time=1.90 ms

--- pantip.com ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3003ms



```
rtt min/avg/max/mdev = 1.855/1.928/1.978/0.059 ms
[ec2-user@ip-172-31-35-77 ~]$ ping www.chantrip.in.th -c 4
PING www.chantrip.in.th (119.59.104.33) 56(84) bytes of data.
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=1 ttl=49 time=29.3 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=2 ttl=49 time=29.3 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=3 ttl=49 time=29.3 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=4 ttl=49 time=29.3 ms

--- www.chantrip.in.th ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 29.305/29.333/29.375/0.211 ms
[ec2-user@ip-172-31-35-77 ~]$
```

## Result RTT latency form Region Paris

- ping [www.google.com](http://www.google.com) is rtt min/avg/max = 1.009/1.045/1.089 ms
- ping [www.pantip.com](http://www.pantip.com) is rtt min/avg/max = 147.959/148.067/148.184 ms
- ping [www.chantrip.in.th](http://www.chantrip.in.th) is rtt min/avg/max = 193.203/193.278/193.353 ms

```
PS C:\Users\Nisit\Documents> ssh -i .\L2-3.pem ec2-user@ec2-15-236-204-210.eu-west-3.compute.amazonaws.com
The authenticity of host 'ec2-15-236-204-210.eu-west-3.compute.amazonaws.com (15.236.204.210)' can't be established.
ECDSA key fingerprint is SHA256:+A7wWZktjcDMP4ful4uBKxFSbxaZIWkgBo2Qqnq1zE.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-15-236-204-210.eu-west-3.compute.amazonaws.com,15.236.204.210' (ECDSA) to the list of known hosts
```

```
 _ | _ | )
 _ | ( _ | /
 _ | \ _ | _ |
Amazon Linux 2 AMI
```

```
https://aws.amazon.com/amazon-linux-2/
```

```
7 package(s) needed for security, out of 14 available
Run "sudo yum update" to apply all updates.
```

Paris

```
[ec2-user@ip-172-31-21-238 ~]$ ping www.google.com -c 4
PING www.google.com (216.58.213.132) 56(84) bytes of data.
64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp_seq=1 ttl=112 time=1.00 ms
64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp_seq=2 ttl=112 time=1.04 ms
64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp_seq=3 ttl=112 time=1.04 ms
64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp_seq=4 ttl=112 time=1.08 ms
```

```
--- www.google.com ping statistics ---
```

```
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 1.009/1.045/1.089/0.043 ms
```

```
[ec2-user@ip-172-31-21-238 ~]$ ping www.pantip.com -c 4
PING pantip.com (139.99.68.204) 56(84) bytes of data.
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=1 ttl=43 time=147 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=2 ttl=43 time=148 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=3 ttl=43 time=148 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=4 ttl=43 time=148 ms
```

```
--- pantip.com ping statistics ---
```

```
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 147.959/148.067/148.184/0.079 ms
```

```
[ec2-user@ip-172-31-21-238 ~]$ ping www.chantrip.in.th -c 4
PING www.chantrip.in.th (119.59.104.33) 56(84) bytes of data.
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=1 ttl=43 time=193 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=2 ttl=43 time=193 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=3 ttl=43 time=193 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=4 ttl=43 time=193 ms
```

```
--- www.chantrip.in.th ping statistics ---
```

```
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 193.203/193.278/193.353/0.054 ms
```

```
[ec2-user@ip-172-31-21-238 ~]$
```

```
ec2-user@ip-172-31-21-238:~$
rtt min/avg/max/mdev = 29.305/29.333/29.375/0.211 ms
[ec2-user@ip-172-31-35-77 ~]$ Connection to 13.229.108.38 closed by remote host.
Connection to 13.229.108.38 closed.
PS C:\Users\Nisit\Documents> ssh -i .\L2-3.pem ec2-user@ec2-15-236-204-210.eu-west-3.compute.amazonaws.com
The authenticity of host 'ec2-15-236-204-210.eu-west-3.compute.amazonaws.com (15.236.204.210)' can't be established.
ECDSA key fingerprint is SHA256:+A7wWZktjcDMP4ful4uBKxFSBxbxZIWkgBo2Qqnq1zE.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-15-236-204-210.eu-west-3.compute.amazonaws.com,15.236.204.210' (ECDSA) to the list of known hosts.

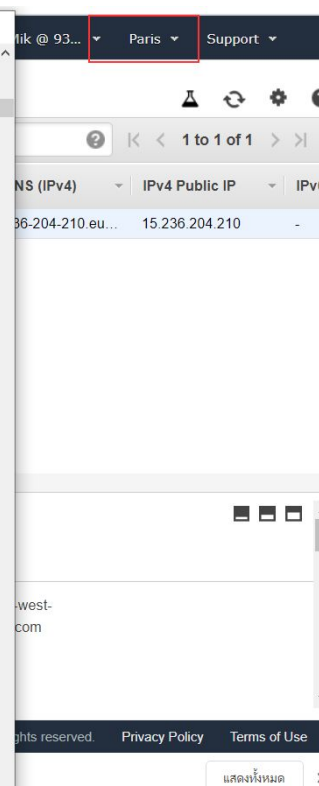
  _ | _ | _ |
  _ | (   /   Amazon Linux 2 AMI
  _ | \_ | _ | _ |

https://aws.amazon.com/amazon-linux-2/
7 package(s) needed for security, out of 14 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-21-238 ~]$ ping www.google.com -c 4
PING www.google.com (216.58.213.132) 56(84) bytes of data.
64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp_seq=1 ttl=112 time=1.00 ms
64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp_seq=2 ttl=112 time=1.04 ms
64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp_seq=3 ttl=112 time=1.04 ms
64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp_seq=4 ttl=112 time=1.08 ms

--- www.google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 1.009/1.045/1.089/0.043 ms
[ec2-user@ip-172-31-21-238 ~]$ ping www.pantip.com -c 4
PING pantip.com (139.99.68.204) 56(84) bytes of data.
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=1 ttl=43 time=147 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=2 ttl=43 time=148 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=3 ttl=43 time=148 ms
64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp_seq=4 ttl=43 time=148 ms

--- pantip.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 147.959/148.067/148.184/0.079 ms
[ec2-user@ip-172-31-21-238 ~]$ ping www.chantrip.in.th -c 4
PING www.chantrip.in.th (119.59.104.33) 56(84) bytes of data.
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=1 ttl=43 time=193 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=2 ttl=43 time=193 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=3 ttl=43 time=193 ms
64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp_seq=4 ttl=43 time=193 ms

--- www.chantrip.in.th ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 193.203/193.278/193.353/0.054 ms
[ec2-user@ip-172-31-21-238 ~]$
```



PS C:\Users\Nisit\Documents> ssh -i .\L2-3.pem  
ec2-user@ec2-15-236-204-210.eu-west-3.compute.amazonaws.com  
The authenticity of host 'ec2-15-236-204-210.eu-west-3.compute.amazonaws.com  
(15.236.204.210)' can't be established.  
ECDSA key fingerprint is  
SHA256:+A7wWZktjcDMP4ful4uBKxFSBxbxZIWkgBo2Qqnq1zE.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added  
'ec2-15-236-204-210.eu-west-3.compute.amazonaws.com,15.236.204.210' (ECDSA) to  
the list of known hosts.

```
  _ | _ | _ |
  _ | (   /   Amazon Linux 2 AMI
  _ | \_ | _ | _ |
```

https://aws.amazon.com/amazon-linux-2/  
7 package(s) needed for security, out of 14 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-21-238 ~]\$ ping www.google.com -c 4  
PING www.google.com (216.58.213.132) 56(84) bytes of data.  
64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp\_seq=1 ttl=112 time=1.00  
ms



64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp\_seq=2 ttl=112 time=1.04 ms

64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp\_seq=3 ttl=112 time=1.04 ms

64 bytes from par21s03-in-f4.1e100.net (216.58.213.132): icmp\_seq=4 ttl=112 time=1.08 ms

--- www.google.com ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3004ms

rtt min/avg/max/mdev = 1.009/1.045/1.089/0.043 ms

[ec2-user@ip-172-31-21-238 ~]\$ ping www.pantip.com -c 4

PING pantip.com (139.99.68.204) 56(84) bytes of data.

64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp\_seq=1 ttl=43 time=147 ms

64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp\_seq=2 ttl=43 time=148 ms

64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp\_seq=3 ttl=43 time=148 ms

64 bytes from ns569161.ip-139-99-68.net (139.99.68.204): icmp\_seq=4 ttl=43 time=148 ms

--- pantip.com ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3004ms

rtt min/avg/max/mdev = 147.959/148.067/148.184/0.079 ms

[ec2-user@ip-172-31-21-238 ~]\$ ping www.chantrip.in.th -c 4

PING www.chantrip.in.th (119.59.104.33) 56(84) bytes of data.

64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp\_seq=1 ttl=43 time=193 ms

64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp\_seq=2 ttl=43 time=193 ms

64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp\_seq=3 ttl=43 time=193 ms

64 bytes from ns55.hostinglotus.net (119.59.104.33): icmp\_seq=4 ttl=43 time=193 ms

--- www.chantrip.in.th ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3004ms

rtt min/avg/max/mdev = 193.203/193.278/193.353/0.054 ms

[ec2-user@ip-172-31-21-238 ~]\$