

## Q1)Take a screen while you are ssh to the jumphost

### Login into jumphost

```
C:\Users\hi55\Downloads>ssh -i "key.pem" ubuntu@54.193.246.181
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1028-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Sat Mar 25 00:43:31 UTC 2023

System load:  0.0               Processes:    99
Usage of /:   22.6% of 7.57GB   Users logged in:  0
Memory usage: 19%              IPv4 address for eth0: 10.0.0.247
Swap usage:   0%

 * Introducing Expanded Security Maintenance for Applications.
   Receive updates to over 25,000 software packages with your
   Ubuntu Pro subscription. Free for personal use.

   https://ubuntu.com/aws/pro

Expanded Security Maintenance for Applications is not enabled.

67 updates can be applied immediately.
36 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Sat Mar 25 00:00:41 2023 from 102.187.92.152
ubuntu@ip-10-0-0-247:~$
```

Activate Windows  
Go to Settings to activate Windows.

### Login into private ec2

```
Last login: Sat Mar 25 00:00:41 2023 from 102.187.92.152
ubuntu@ip-10-0-0-247:~$ ls
key.pem
ubuntu@ip-10-0-0-247:~$ ssh -i "key.pem" ubuntu@10.0.1.13
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1028-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Sat Mar 25 00:44:29 UTC 2023

System load:  0.0               Processes:    97
Usage of /:   22.5% of 7.57GB   Users logged in:  0
Memory usage: 19%              IPv4 address for eth0: 10.0.1.13
Swap usage:   0%

 * Introducing Expanded Security Maintenance for Applications.
   Receive updates to over 25,000 software packages with your
   Ubuntu Pro subscription. Free for personal use.

   https://ubuntu.com/aws/pro

Expanded Security Maintenance for Applications is not enabled.

67 updates can be applied immediately.
36 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings

Last login: Fri Mar 24 22:57:29 2023 from 10.0.0.247
ubuntu@ip-10-0-1-13:~$
```

Activate Windows  
Go to Settings to activate Windows.

## Screenshot from the console showing the instances Ips

### Public es2 ip

**Instances (1/4) Info**

Find instance by attribute or tag (case-sensitive)

Instance state: running

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
vm1	i-05111c30ffba445bd	Running	t2.micro	2/2 checks passed	No alarms	us-west-1a
vm0	i-092f23cb928bf15e2	Running	t2.micro	2/2 checks passed	No alarms	us-west-1a
vm3	i-06a2f2730aac0239b	Running	t2.micro	2/2 checks passed	No alarms	us-west-1c
vm2	i-0d9d3ccca7dd33003	Running	t2.micro	2/2 checks passed	No alarms	us-west-1c

**Instance: i-092f23cb928bf15e2 (vm0)**

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

**Instance summary Info**

Instance ID: i-092f23cb928bf15e2 (vm0)

Public IPv4 address: 54.193.246.181 | [open address](#)

Private IPv4 addresses: 10.0.0.247

Instance state: Running

Public IPv4 DNS: -

Private IP DNS name (IPv4 only): -

Activate Windows  
Go to Settings to activate Windows.

## Private ec2 ip

**Instances (1/4) Info**

Find instance by attribute or tag (case-sensitive)

Instance state: running

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
vm1	i-05111c30ffba445bd	Running	t2.micro	2/2 checks passed	No alarms	us-west-1a
vm0	i-092f23cb928bf15e2	Running	t2.micro	2/2 checks passed	No alarms	us-west-1a
vm3	i-06a2f2730aac0239b	Running	t2.micro	2/2 checks passed	No alarms	us-west-1c
vm2	i-0d9d3ccca7dd33003	Running	t2.micro	2/2 checks passed	No alarms	us-west-1c

**Instance: i-05111c30ffba445bd (vm1)**

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

**Instance summary Info**

Instance ID: i-05111c30ffba445bd (vm1)

Public IPv4 address: -

Private IPv4 addresses: 10.0.1.13

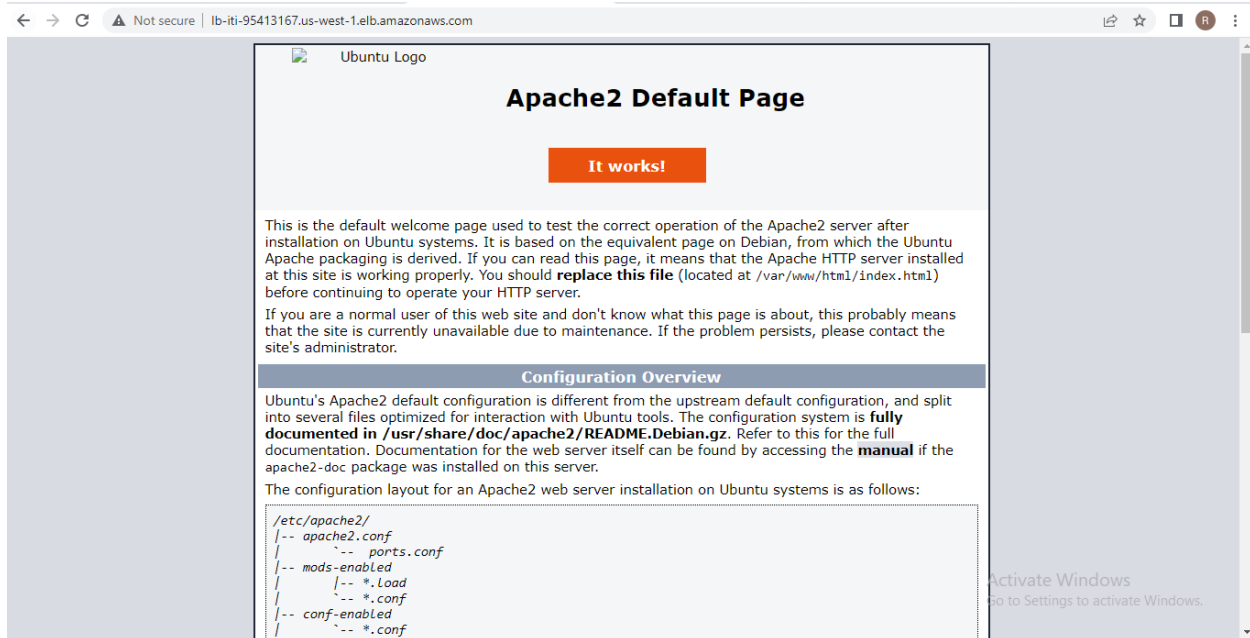
Instance state: Running

Public IPv4 DNS: -

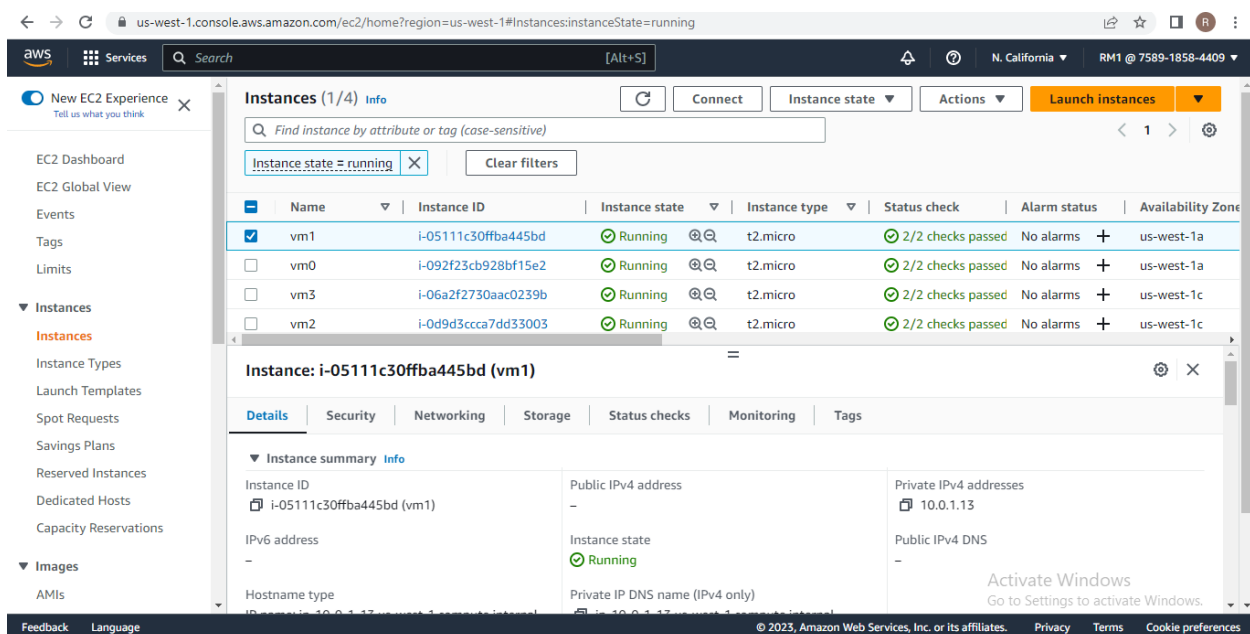
Private IP DNS name (IPv4 only): -

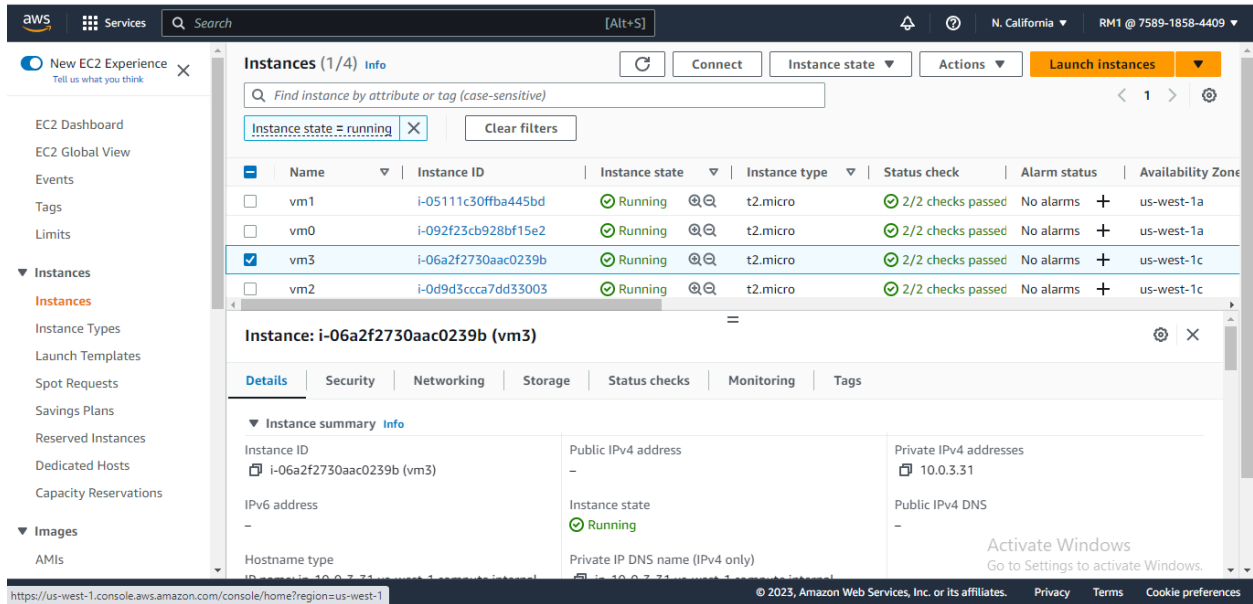
Activate Windows  
Go to Settings to activate Windows.

Q2) Take a screenshot while you put dns of the load balancer into the browser and it returns a response from the 2 apache instances.



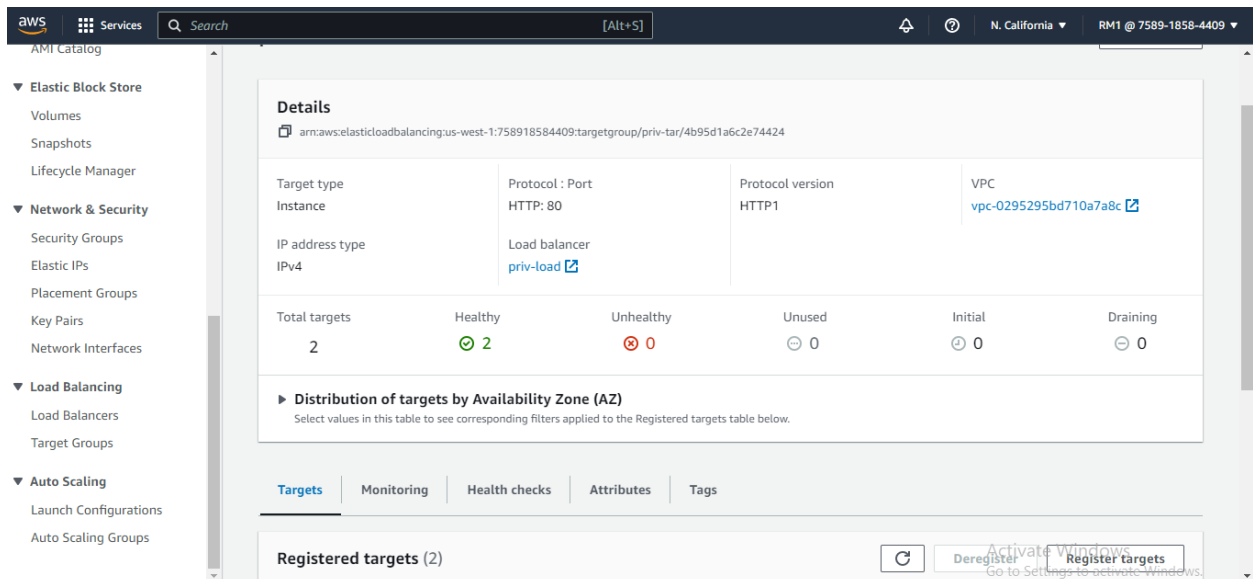
Screenshot from the console showing the machines BE WS have private Ips





A screenshot showing the targets of the 2 loadbalancers target groups are healthy.

Private-target:



Public-target:

aws

Services

Search

[Alt+S]

N. California

RM1 @ 7589-1858-4409

AMI Catalog

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

▼ Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

▼ Load Balancing

Load Balancers

Target Groups

▼ Auto Scaling

Launch Configurations

Auto Scaling Groups

EC2 > Target groups > public-tar

public-tar

Actions

Details

arn:aws:elasticloadbalancing:us-west-1:758918584409:targetgroup/public-tar/9e83de5da45fcd0a

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 80	HTTP1	vpc-0295295bd710a7a8c
IP address type	Load balancer		
IPv4	lb-iti		

Total targets	Healthy	Unhealthy	Unused	Initial	Draining
2	2	0	0	0	0

Distribution of targets by Availability Zone (AZ)

Select values in this table to see corresponding filters applied to the Registered targets table below.

Targets

Monitoring

Health checks

Attributes

Tags

Activate Windows

Go to Settings to activate Windows.

Feedback

Language

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