

## Lab 2: CS 524

In this assignment, you will learn to develop and load-balance your own infrastructure (a server farm) while applying your knowledge of DNS and other application entities and protocols. You will also learn to use Cloud Storage for back-up and recovery of your data. In addition, you will perform rudimentary analysis of the IP traffic. You will use Nginx (a popular http server available at <http://nginx.org/>) to host a simple website on four Amazon EC2 instances; you will also configure an Nginx server on another instance, which will act as a load balancer. You will learn how to distribute networking workload across multiple servers.

ANS.

- a. Once registered for AWS, now go into AWS Console



### Sign in

☒ **Root user**

Account owner that performs tasks requiring unrestricted access. [Learn more](#)

☐ **IAM user**

User within an account that performs daily tasks. [Learn more](#)

Root user email address

kmodi5@stevens.edu

Next

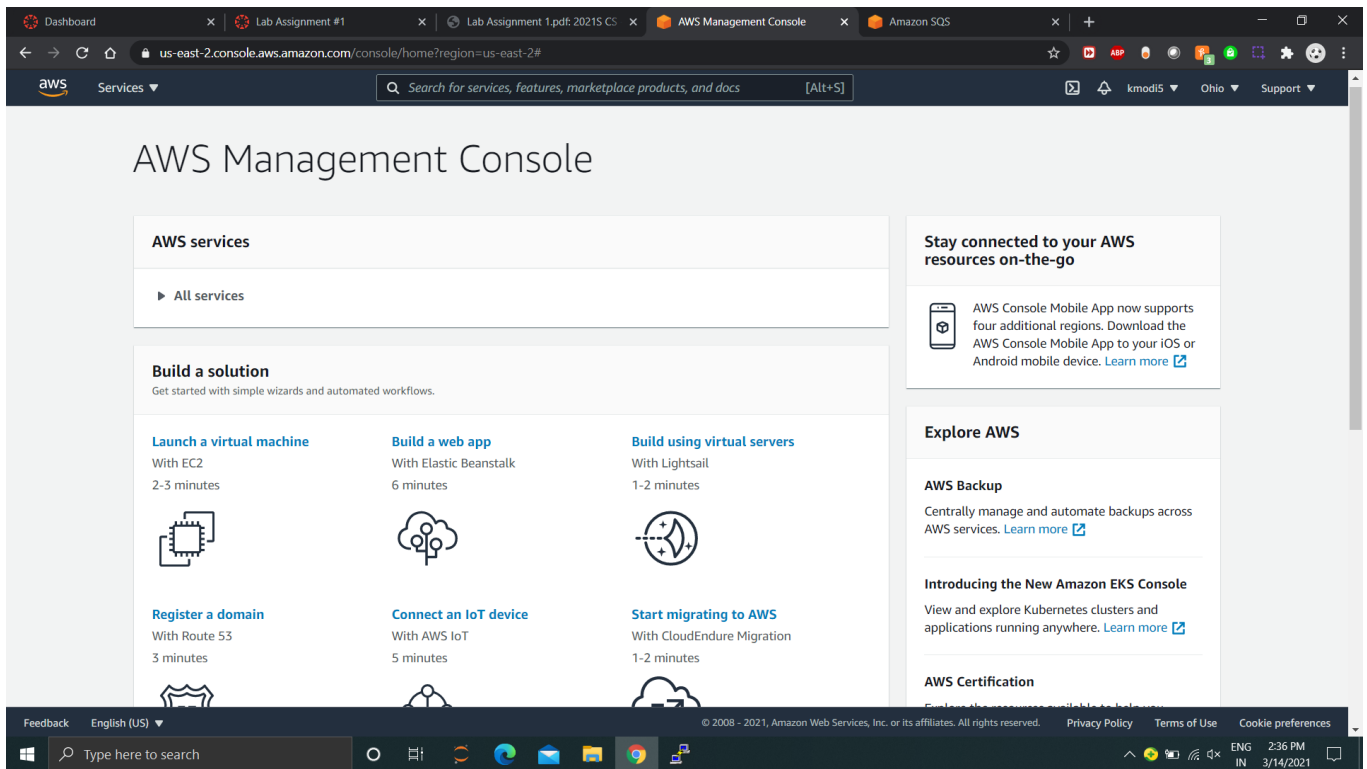
By continuing, you agree to the [AWS Customer Agreement](#) or other agreement for AWS services, and the [Privacy Notice](#). This site uses essential cookies. See our [Cookie Notice](#) for more information.

— New to AWS? —

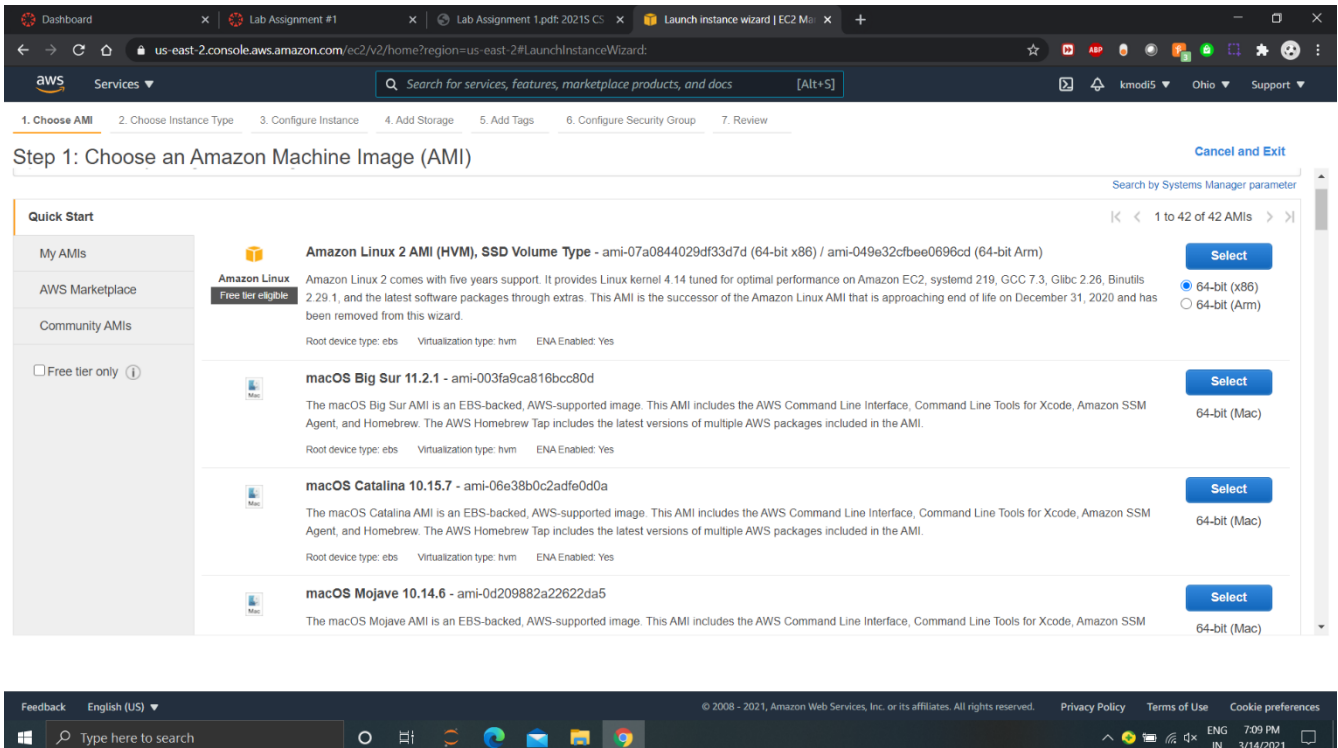
Create a new AWS account



## b. Go into AWS Console and Launch a virtual machine



## c. Select Amazon Linux 2 AMI as Amazon Machine Image which eligible for Free Tier



d. Choose an Instance Type and select t2.micro which is eligible for free tier

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance families Current generation Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

e. Review your Instance and launch it to start the instant

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**Improve your instances' security.** Your security group, launch-wizard-1, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)

**Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-07a0844029df33d7d**

Free tier eligible

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is a...

Root Device Type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

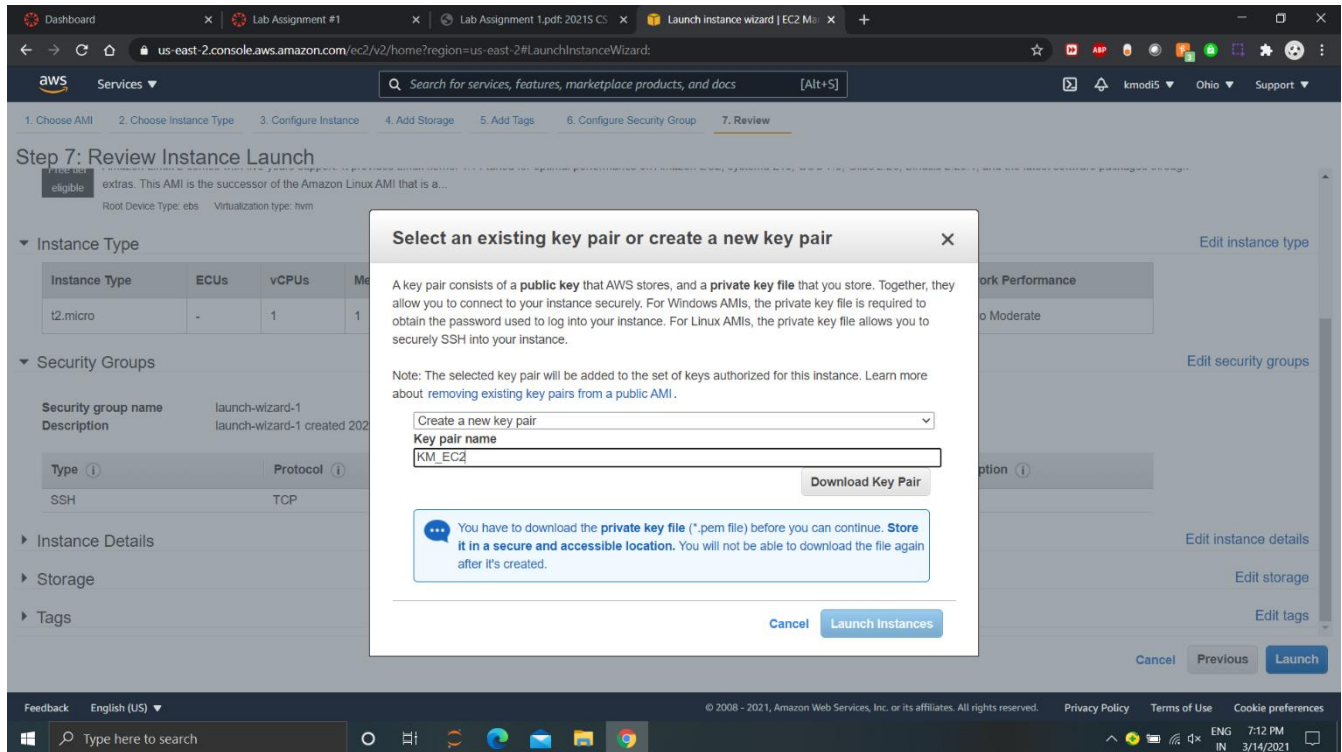
Security Groups [Edit security groups](#)

Security group name: launch-wizard-1

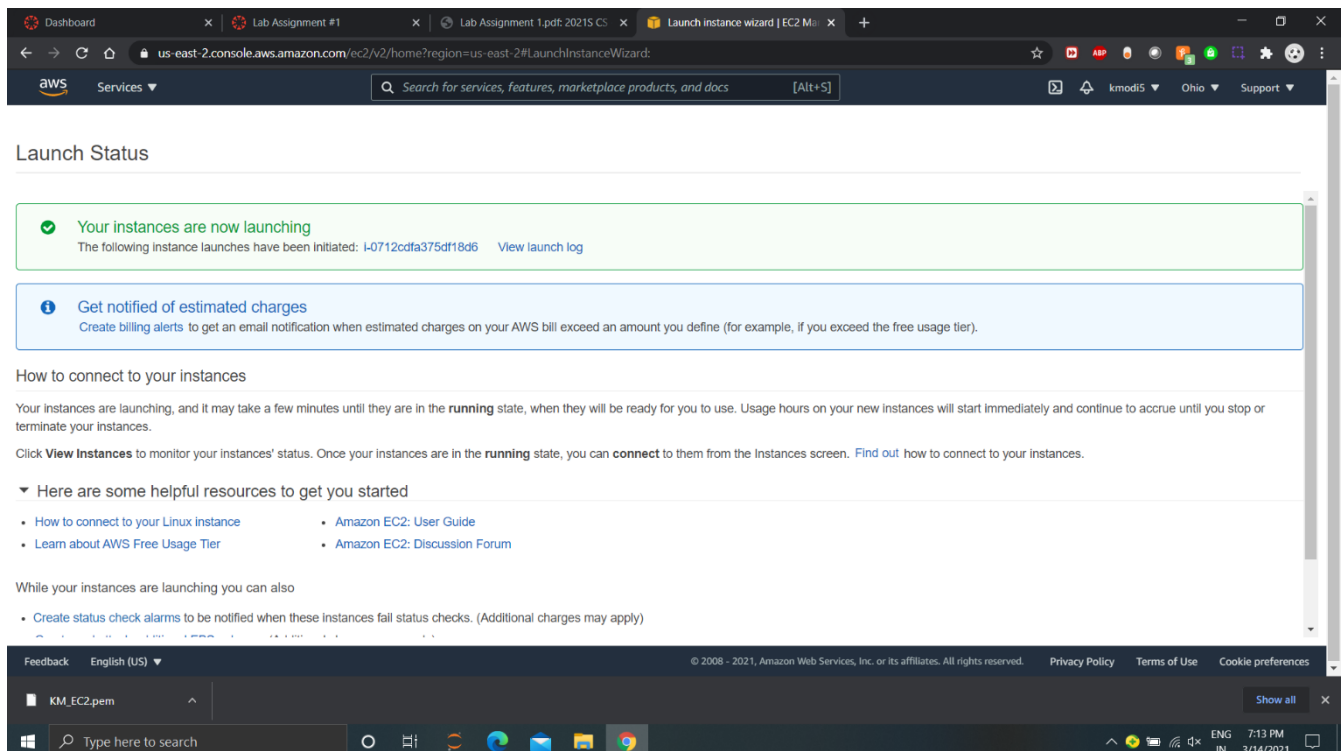
Description: launch-wizard-1 created 2021-03-14T10:44:48.738-04:00

Cancel Previous Launch

- f. Select Create a new key pair(or use an existing key pair) and name it. Download the <NAME>.pem.



- g. Launch the instance and it should be initiated.



- h. The instance will start and will be in running state in 1-2 mins. Review the details.

The screenshot shows the AWS Management Console for the 'us-east-2' region. The 'Instances' page is active, displaying a table with one instance: i-0712cdfa375df18d6, which is in the 'Running' state. The instance type is 't2.micro'. Below the table, the 'Instance: i-0712cdfa375df18d6' details are shown, including the Instance ID, Instance state (Running), Instance type (t2.micro), Public IPv4 address (18.224.165.1), Public IPv4 DNS (ec2-18-224-165-1.us-east-2.compute.amazonaws.com), Private IPv4 addresses (172.31.30.89), Private IPv4 DNS (ip-172-31-30-89.us-east-2.compute.internal), Elastic IP addresses, and VPC ID (vpc-e0a5298b).

- i. Connect to the instance and select a medium

The screenshot shows the AWS Management Console for the 'us-east-2' region, specifically the 'Instance details' page for instance i-0712cdfa375df18d6. The instance is in the 'Running' state. The 'Instance summary' section shows the Instance ID, Instance state (Running), Instance type (t2.micro), Public IPv4 address (18.224.165.1), Public IPv4 DNS (ec2-18-224-165-1.us-east-2.compute.amazonaws.com), Private IPv4 addresses (172.31.30.89), Private IPv4 DNS (ip-172-31-30-89.us-east-2.compute.internal), Elastic IP addresses, and VPC ID (vpc-e0a5298b). The 'Instance details' section shows the Platform (Amazon Linux (Inferred)), AMI ID (ami-07a0844029df33d7d), and Monitoring (disabled).



- j. Using SCP to send pem private key to stevens server from your desktop

```
C:\Users\Modi\Downloads>scp KM_EC2.pem kmodi5@lab.cs.stevens.edu:/home/kmodi5
kmodi5@lab.cs.stevens.edu's password:
KM_EC2.pem 100% 1700 35.4KB/s 00:00
```

- k. Connecting to remote stevens server and giving right permissions

```
ec2-user@ip-172-31-30-89:~
kmodi5@smurf:~$ ssh -i "KM_EC2.pem" ec2-user@ec2-3-140-200-128.us-east-2.compute.amazonaws.com
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@                WARNING: UNPROTECTED PRIVATE KEY FILE!                @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions 0644 for 'KM_EC2.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "KM_EC2.pem": bad permissions
Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
kmodi5@smurf:~$
kmodi5@smurf:~$ chmod 400 KM_EC2.pem
kmodi5@smurf:~$ ssh -i "KM_EC2.pem" ec2-user@ec2-3-140-200-128.us-east-2.compute.amazonaws.com
Last login: Sun Mar 14 23:17:04 2021 from ec2-3-16-146-0.us-east-2.compute.amazonaws.com

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

https://aws.amazon.com/amazon-linux-2/
15 package(s) needed for security, out of 21 available
Run "sudo yum update" to apply all updates.
```

```
[ec2-user@ip-172-31-30-89 ~]$ sudo yum update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00
Resolving Dependencies
--> Running transaction check
---> Package amazon-linux-extras.noarch 0:1.6.13-1.amzn2 will be updated
---> Package amazon-linux-extras.noarch 0:2.0.0-1.amzn2 will be an update
---> Package amazon-linux-extras-yum-plugin.noarch 0:1.6.13-1.amzn2 will be updated
done
```

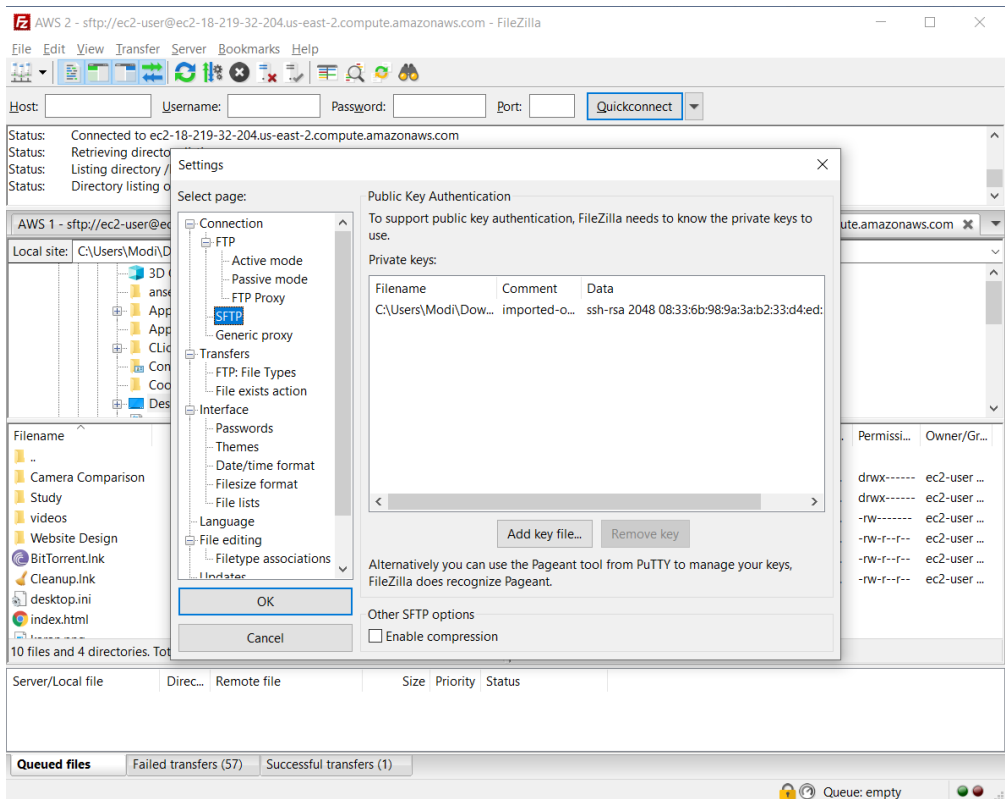
- l. Install nginx on your aws instance

```
ec2-user@ip-172-31-30-89:~  
glibc.x86_64 0:2.26-43.amzn2  
glibc-all-langpacks.x86_64 0:2.26-43.amzn2  
glibc-common.x86_64 0:2.26-43.amzn2  
glibc-locale-source.x86_64 0:2.26-43.amzn2  
glibc-minimal-langpack.x86_64 0:2.26-43.amzn2  
kernel-tools.x86_64 0:4.14.225-169.362.amzn2  
libcrypt.x86_64 0:2.26-43.amzn2  
pyliblzma.x86_64 0:0.5.3-25.amzn2  
screen.x86_64 0:4.1.0-0.27.20120314git3c2946.amzn2  
yum.noarch 0:3.4.3-158.amzn2.0.5  
  
Complete!  
[ec2-user@ip-172-31-30-89 ~]$ sudo amazon-linux-extras install nginx1.12  
Topic nginx1.12 has end-of-support date of 2019-09-20  
Installing nginx  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-nginx1.12  
12 metadata files removed  
4 sqlite files removed  
0 metadata files removed  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
amzn2-core | 3.7 kB 00:00  
amzn2extra-docker | 3.0 kB 00:00  
amzn2extra-nginx1.12 | 1.3 kB 00:00
```

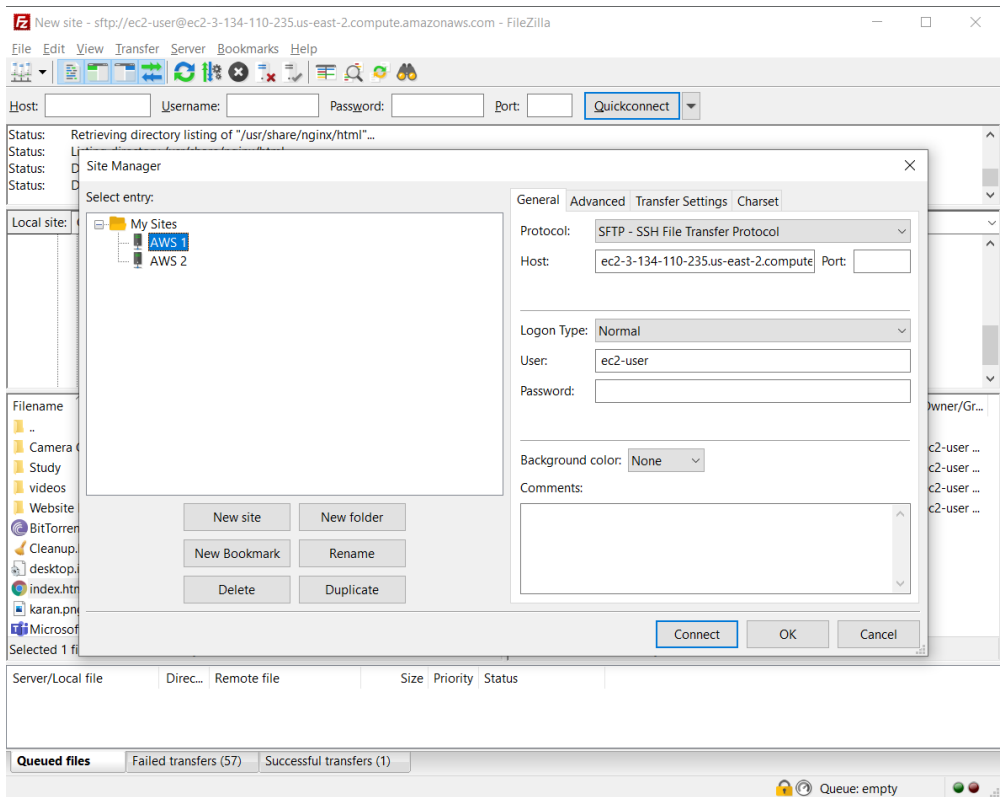
- m. Press Y to install all dependencies
- n. For easier handling we will use Filezilla to connect to our AWS Servers using SFTP: SSH FTP
- o. First let's give the right permissions to communicate and write to our servers.

```
[ec2-user@ip-172-31-40-135 ~]$ sudo chown -R ec2-user /usr/share/nginx/html  
[ec2-user@ip-172-31-40-135 ~]$ sudo chmod -R 755 /usr/share/nginx/html  
[ec2-user@ip-172-31-40-135 ~]$
```

- p. Now we will import our Key <NAME>.pem to Filezilla for AWS authentication.

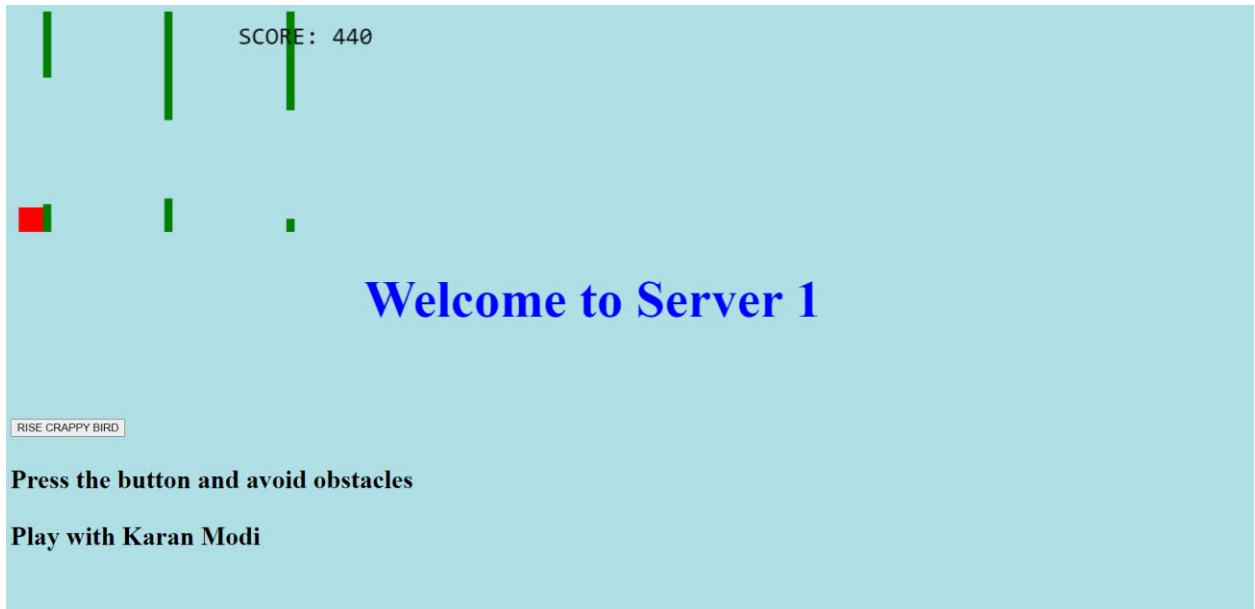


q. Now we will enter the credentials for connecting to our servers

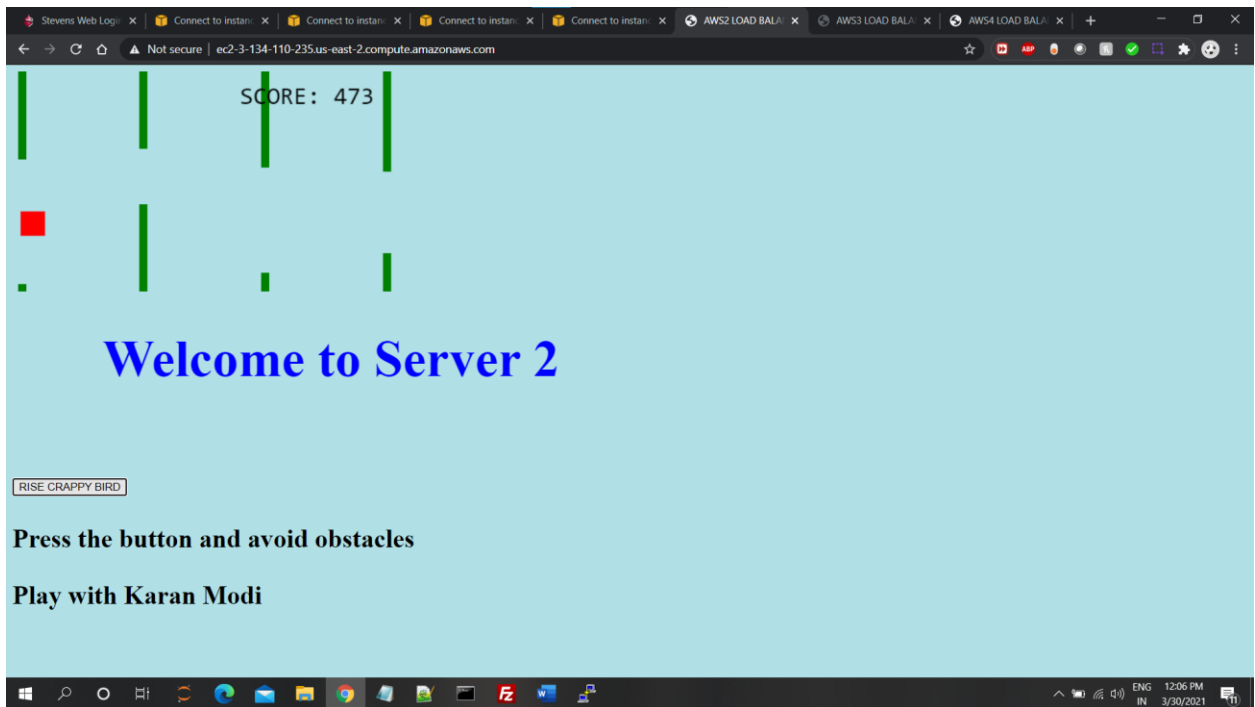


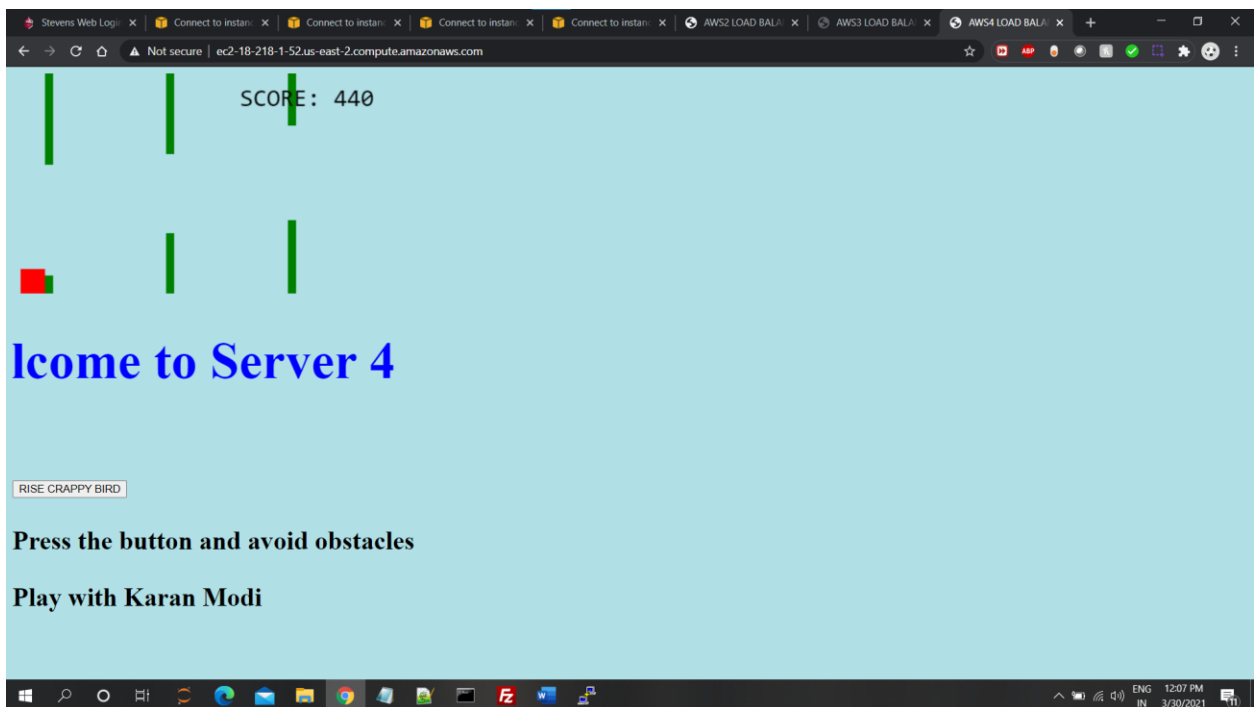
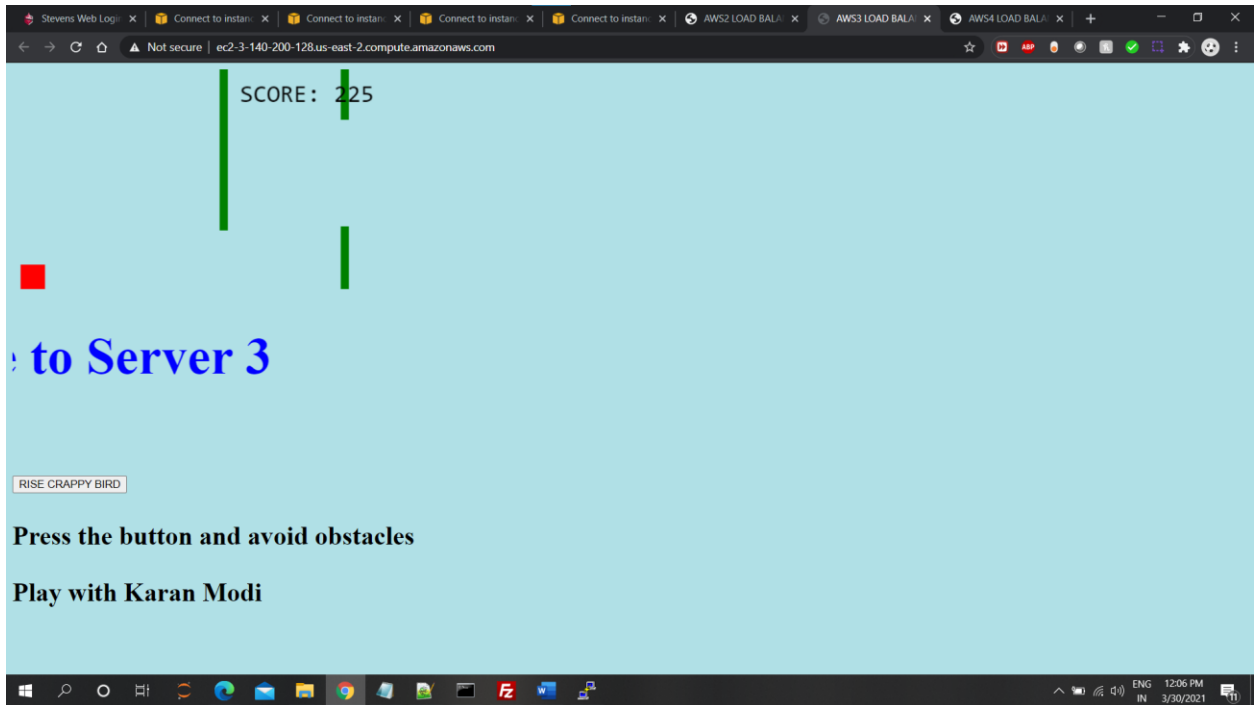


- r. Once our files are sent using Filezilla , start Nginx again

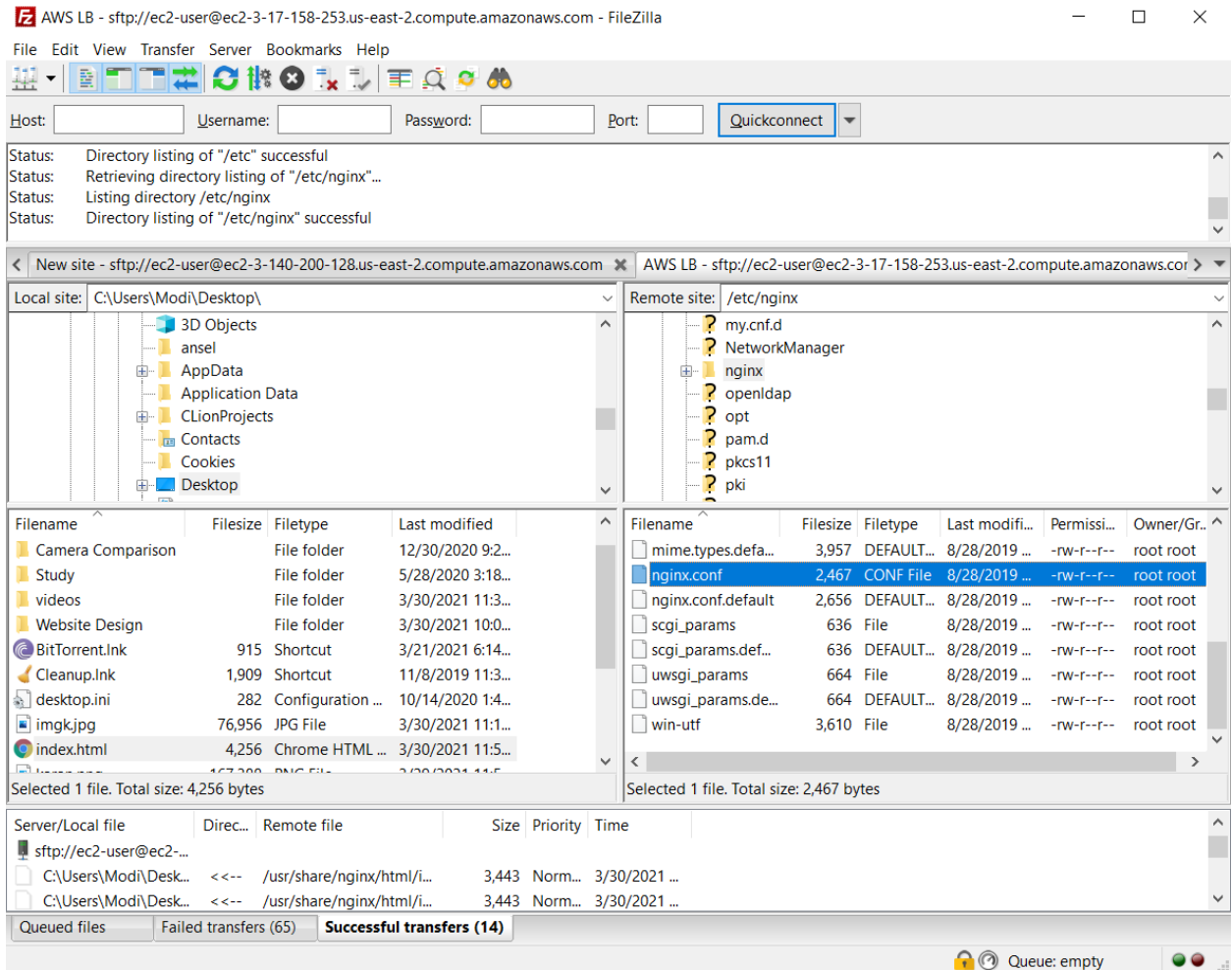


- s. Similarly for Server 2, 3, 4 and Load Balancer





- t. Go to etc/nginx and open nginx.conf file



SERVER1\_PUBLIC\_DNS\_NAME = ec2-52-15-177-236.us-east-2.compute.amazonaws.com

SERVER2\_PUBLIC\_DNS\_NAME = ec2-3-141-19-134.us-east-2.compute.amazonaws.com

SERVER3\_PUBLIC\_DNS\_NAME = ec2-18-188-106-12.us-east-2.compute.amazonaws.com

SERVER4\_PUBLIC\_DNS\_NAME = ec2-3-140-239-6.us-east-2.compute.amazonaws.com

SERVERLB\_PUBLIC\_DNS\_NAME = ec2-3-138-142-56.us-east-2.compute.amazonaws.com

u. Replace the nginx.conf file with below code



```
1 events {
2     worker_connections 768;
3 }
4 http {
5     upstream myapp {
6         #ip_hash;
7         server [ec2-18-219-32-204.us-east-2.compute.amazonaws.com] weight=1;
8         server [ec2-3-140-200-128.us-east-2.compute.amazonaws.com] weight=1;
9         server [ec2-3-140-200-128.us-east-2.compute.amazonaws.com] weight=1;
10        server [ec2-18-218-1-52.us-east-2.compute.amazonaws.com] weight=1;
11    }
12    server {
13        listen 80;
14        server_name myapp.com;
15        location / {
16            proxy_pass http://myapp;
17        }
18    }
```

v. Reload nginx service and curl to Load Balancer

```
[ec2-user@ip-172-31-25-38 nginx]$ sudo service nginx reload
Redirecting to /bin/systemctl reload nginx.service
[ec2-user@ip-172-31-25-38 nginx]$ curl ec2-3-17-158-253.us-east-2.compute.amazonaws.com
<!DOCTYPE html>

<html>
<head>
  <title>AWS LOAD BALANCER</title>
  <h1><strong><body style="background-color:powderblue;"><h1 style
="color:blue;"> <marquee direction = "right">Welcome to Load Balancer</marquee><
/h1>
<meta name="viewport" content="width=device-width, initial-scale=1.0"/>
</head>
<body onload="startGame()">
<script>

var myGamePiece;
var myObstacles = [];
var myScore;

function startGame() {
  myGamePiece = new component(30, 30, "red", 10, 120);
  myGamePiece.gravity = 0.05;
  myScore = new component("30px", "Consolas", "black", 280, 40, "text");
  myGameArea.start();
}

var myGameArea = {
  canvas : document.createElement("canvas"),
  start : function() {
    this.canvas.width = 480;
    this.canvas.height = 270;
    this.context = this.canvas.getContext("2d");
    document.body.insertBefore(this.canvas, document.body.childNodes[0]);
    this.frameNo = 0;
    this.interval = setInterval(updateGameArea, 20);
  },
  clear : function() {
    this.context.clearRect(0, 0, this.canvas.width, this.canvas.height);
  }
}
```

## Server 1

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

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-40-135 ~]$ curl ec2-3-17-158-253.us-east-2.compute.amazonaws.com
<!DOCTYPE html>
```

## Server 2

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

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-40-135 ~]$ curl ec2-3-17-158-253.us-east-2.compute.amazonaws.com
<!DOCTYPE html>
```

## Server 3

```
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-40-135 ~]$ curl ec2-3-17-158-253.us-east-2.compute.amazonaws.com
<!DOCTYPE html>
```

```

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

```

```
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-40-135 ~]$ curl ec2-3-17-158-253.us-east-2.compute.amazonaws.com
<!DOCTYPE html>
```

- For Server 1=1, Server 2=1, Server 3=1, Server 4=1.

[illegible]



For Server 1=1, Server 2=2, Server 3=3, Server 4=4.

```
Starting to visit load balancing server
```

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

-----

Summary

-----

```
Server1 visit counts : 200  
Server2 visit counts : 400  
Server3 visit counts : 600  
Server4 visit counts : 800  
Total visit counts   : 2000
```

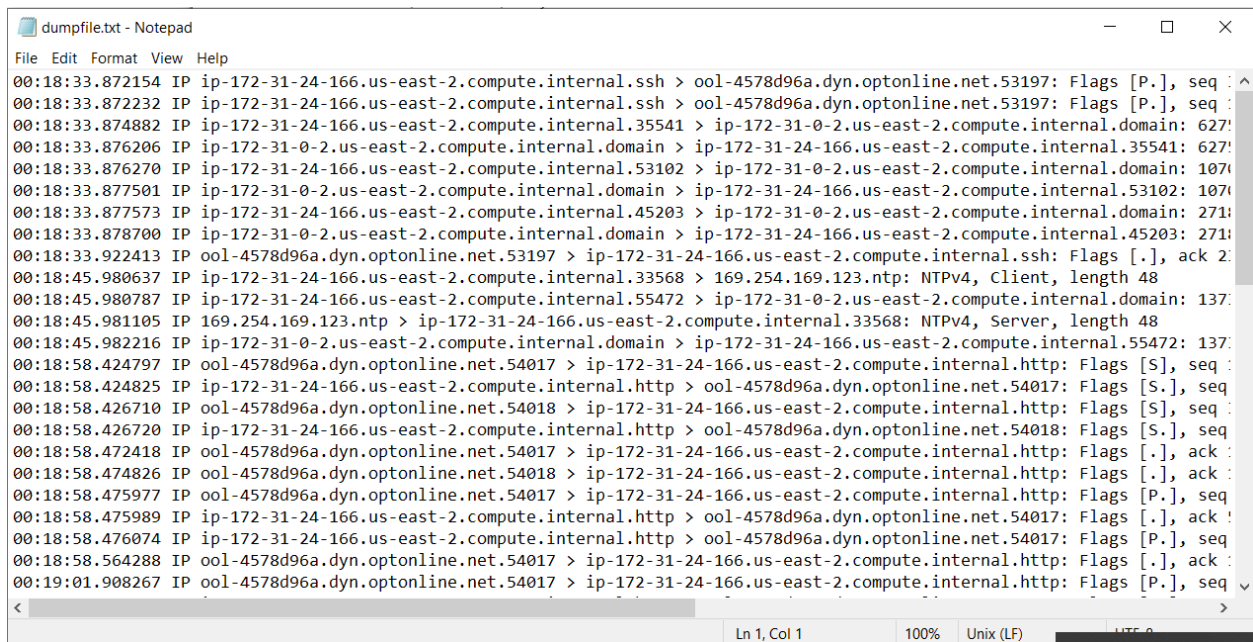
For Server 1=1, Server 2=2, Server 3=1, Server 4=2.

```
Starting to visit load balancing server
.....
.....
Server1 visit counts : 333
Server2 visit counts : 667
Server3 visit counts : 333
Server4 visit counts : 667
Total visit counts : 2000
-----
Summary
-----
Server1 visit counts : 333
Server2 visit counts : 667
Server3 visit counts : 333
Server4 visit counts : 667
Total visit counts : 2000
```

**Q. After having deployed the balancer 1. Use the `tcpdump` command to collect all the packets that had been exchanged. 2. Analyze the packets and report your observations.**

Tcndumpfile in a txt file

```
[ec2-user@ip-172-31-24-166 ~]$ sudo tcpdump -i eth0 >> dumpfile.txt
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 262144 bytes
^C58 packets captured
59 packets received by filter
0 packets dropped by kernel
```



```
File Edit Format View Help
00:18:33.872154 IP ip-172-31-24-166.us-east-2.compute.internal.ssh > ool-4578d96a.dyn.optonline.net.53197: Flags [P.], seq:
00:18:33.872232 IP ip-172-31-24-166.us-east-2.compute.internal.ssh > ool-4578d96a.dyn.optonline.net.53197: Flags [P.], seq:
00:18:33.874882 IP ip-172-31-24-166.us-east-2.compute.internal.35541 > ip-172-31-0-2.us-east-2.compute.internal.domain: 627?
00:18:33.876206 IP ip-172-31-0-2.us-east-2.compute.internal.domain > ip-172-31-24-166.us-east-2.compute.internal.35541: 627?
00:18:33.876270 IP ip-172-31-24-166.us-east-2.compute.internal.53102 > ip-172-31-0-2.us-east-2.compute.internal.domain: 107?
00:18:33.877501 IP ip-172-31-0-2.us-east-2.compute.internal.domain > ip-172-31-24-166.us-east-2.compute.internal.53102: 107?
00:18:33.877573 IP ip-172-31-24-166.us-east-2.compute.internal.45203 > ip-172-31-0-2.us-east-2.compute.internal.domain: 271?
00:18:33.878700 IP ip-172-31-0-2.us-east-2.compute.internal.domain > ip-172-31-24-166.us-east-2.compute.internal.45203: 271?
00:18:33.922413 IP ool-4578d96a.dyn.optonline.net.53197 > ip-172-31-24-166.us-east-2.compute.internal.ssh: Flags [.], ack: 2
00:18:45.980637 IP ip-172-31-24-166.us-east-2.compute.internal.33568 > 169.254.169.123.ntp: NTPv4, Client, length 48
00:18:45.980787 IP ip-172-31-24-166.us-east-2.compute.internal.55472 > ip-172-31-0-2.us-east-2.compute.internal.domain: 137?
00:18:45.981105 IP 169.254.169.123.ntp > ip-172-31-24-166.us-east-2.compute.internal.33568: NTPv4, Server, length 48
00:18:45.982216 IP ip-172-31-0-2.us-east-2.compute.internal.domain > ip-172-31-24-166.us-east-2.compute.internal.55472: 137?
00:18:58.424797 IP ool-4578d96a.dyn.optonline.net.54017 > ip-172-31-24-166.us-east-2.compute.internal.http: Flags [S], seq:
00:18:58.424825 IP ip-172-31-24-166.us-east-2.compute.internal.http > ool-4578d96a.dyn.optonline.net.54017: Flags [S], seq:
00:18:58.426710 IP ool-4578d96a.dyn.optonline.net.54018 > ip-172-31-24-166.us-east-2.compute.internal.http: Flags [S], seq:
00:18:58.426720 IP ip-172-31-24-166.us-east-2.compute.internal.http > ool-4578d96a.dyn.optonline.net.54018: Flags [S], seq:
00:18:58.472418 IP ool-4578d96a.dyn.optonline.net.54017 > ip-172-31-24-166.us-east-2.compute.internal.http: Flags [.], ack:
00:18:58.474826 IP ool-4578d96a.dyn.optonline.net.54018 > ip-172-31-24-166.us-east-2.compute.internal.http: Flags [.], ack:
00:18:58.475977 IP ool-4578d96a.dyn.optonline.net.54017 > ip-172-31-24-166.us-east-2.compute.internal.http: Flags [P.], seq:
00:18:58.475989 IP ip-172-31-24-166.us-east-2.compute.internal.http > ool-4578d96a.dyn.optonline.net.54017: Flags [.], ack:
00:18:58.476074 IP ip-172-31-24-166.us-east-2.compute.internal.http > ool-4578d96a.dyn.optonline.net.54017: Flags [P.], seq:
00:18:58.564288 IP ool-4578d96a.dyn.optonline.net.54017 > ip-172-31-24-166.us-east-2.compute.internal.http: Flags [.], ack:
00:19:01.908267 IP ool-4578d96a.dyn.optonline.net.54017 > ip-172-31-24-166.us-east-2.compute.internal.http: Flags [P.], seq:
<
Ln 1, Col 1 100% Unix (LF) UTF-8
```

I can see that there are various interactions from remote aws instances and my computer. Also I can see stevens linux machine interacting to it by analysing the dump file.

## Backup and Restore a Snapshot

- Create snapshot
- Select Volume
- Create snapshot

Snapshots > Create Snapshot

### Create Snapshot

Select resource type
☒ Volume
☐ Instance

Volume\*

Description

Encrypted

☒ Not Encrypted

Key

(128 characters maximum)

Value

(256 characters maximum)

This resource currently has no tags

Choose the Add tag button or [click to add a Name tag](#)

Add Tag

50 remaining

(Up to 50 tags maximum)

\* Required

Create Snapshot

Actions

Owned By Me

You do not have any snapshots in this region.

Click the Create Snapshot button to create your first snapshot.

Snapshots > Create Snapshot

### Create Snapshot

☒

Create Snapshot Request Succeeded

[snap-0f2462c73d363a58b](#)

Create Snapshot

Actions

Owned By Me

<input type="checkbox"/>	Name	Snapshot ID	Size	Description	Status	Started	Progress
<input type="checkbox"/>		snap-097a6b94750...	8 GiB	Created by CreateImage(i-00d3498ea3bf60385) for ami-0387a...	completed	March 30, 2021 at 8:35:01 P...	available (100%)
<input checked="" type="checkbox"/>		snap-0f2462c73d36...	8 GiB	Server Snapshot	completed	March 30, 2021 at 8:35:26 P...	available (100%)

Now create new instance by selecting my AMI and selecting your backup

aws

Services

Search for services, features, marketplace products, and docs

[Alt+S]

km0d5

Ohio

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Cancel and Exit

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Q Search for an AMI by entering a search term e.g. "Windows"

Search by Systems Manager parameter

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Ownership

Architecture

Server1img - ami-0387a687102271906

This is snapshot example

Root device type: ebs Virtualization type: hvm Owner: 544142735015 ENA Enabled: Yes

Select

64-bit (x86)

aws

Services

Search for services, features, marketplace products, and docs

[Alt+S]

km0d5

Ohio

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☐ Create a new security group ☒ Select an existing security group

Security Group ID	Name	Description	Actions
<input type="checkbox"/> sg-001ff0a5	default	default VPC security group	<a href="#">Copy to new</a>
<input checked="" type="checkbox"/> sg-00149c4518ca82769	launch-wizard-1	launch-wizard-1 created 2021-03-14T19:11:46.726-04:00	<a href="#">Copy to new</a>
<input type="checkbox"/> sg-065bc352981d4fce3	launch-wizard-2	launch-wizard-2 created 2021-03-29T14:27:05.034-04:00	<a href="#">Copy to new</a>

Inbound rules for sg-00149c4518ca82769 (Selected security groups: sg-00149c4518ca82769)

Type	Protocol	Port Range	Source	Description
HTTP	TCP	80	0.0.0.0/0	
HTTP	TCP	80	:::0	
SSH	TCP	22	0.0.0.0/0	
SSH	TCP	22	:::0	

Cancel

Previous

Review and Launch

Use your existing key or create a new key

</

This way it allows to restore your work in case things go south!

Instances (1/11)

Info

↺

Connect

Instance state ▾

Actions ▾

Launch instances ▾

Filter instances

< 1 >

⚙

<div><div></div></div>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Public IP
<input type="checkbox"/>	T4	i-0702065fd2ce47a40	<div><div>✔</div>Running<div>🔍🔍</div></div>	t2.micro	<div><div>✔</div>2/2 checks passed</div>	No alarms +	us-east-2a	ec2-1
<input type="checkbox"/>	Server4	i-0cc33972b5d3dff64	<div><div>✔</div>Running<div>🔍🔍</div></div>	t2.micro	<div><div>✔</div>2/2 checks passed</div>	No alarms +	us-east-2b	ec2-3
<input type="checkbox"/>	Server3	i-00857533eaf413339	<div><div>✔</div>Running<div>🔍🔍</div></div>	t2.micro	<div><div>✔</div>2/2 checks passed</div>	No alarms +	us-east-2a	ec2-1
<input type="checkbox"/>	Server2	i-07673410568707fd1	<div><div>✔</div>Running<div>🔍🔍</div></div>	t2.micro	<div><div>✔</div>2/2 checks passed</div>	No alarms +	us-east-2a	ec2-3
<input type="checkbox"/>	Server1	i-00d3498ea3bf60385	<div><div>✔</div>Running<div>🔍🔍</div></div>	t2.micro	<div><div>✔</div>2/2 checks passed</div>	No alarms +	us-east-2a	ec2-5
<input type="checkbox"/>	Load_Balancer	i-0f323fa7f3dfe4ae0	<div><div>✔</div>Running<div>🔍🔍</div></div>	t2.micro	<div><div>✔</div>2/2 checks passed</div>	No alarms +	us-east-2b	ec2-3
<input checked="" type="checkbox"/>	LBSnap	i-06ea199b68e133538	<div><div>✔</div>Running<div>🔍🔍</div></div>	t2.micro	-	No alarms +	us-east-2c	ec2-3