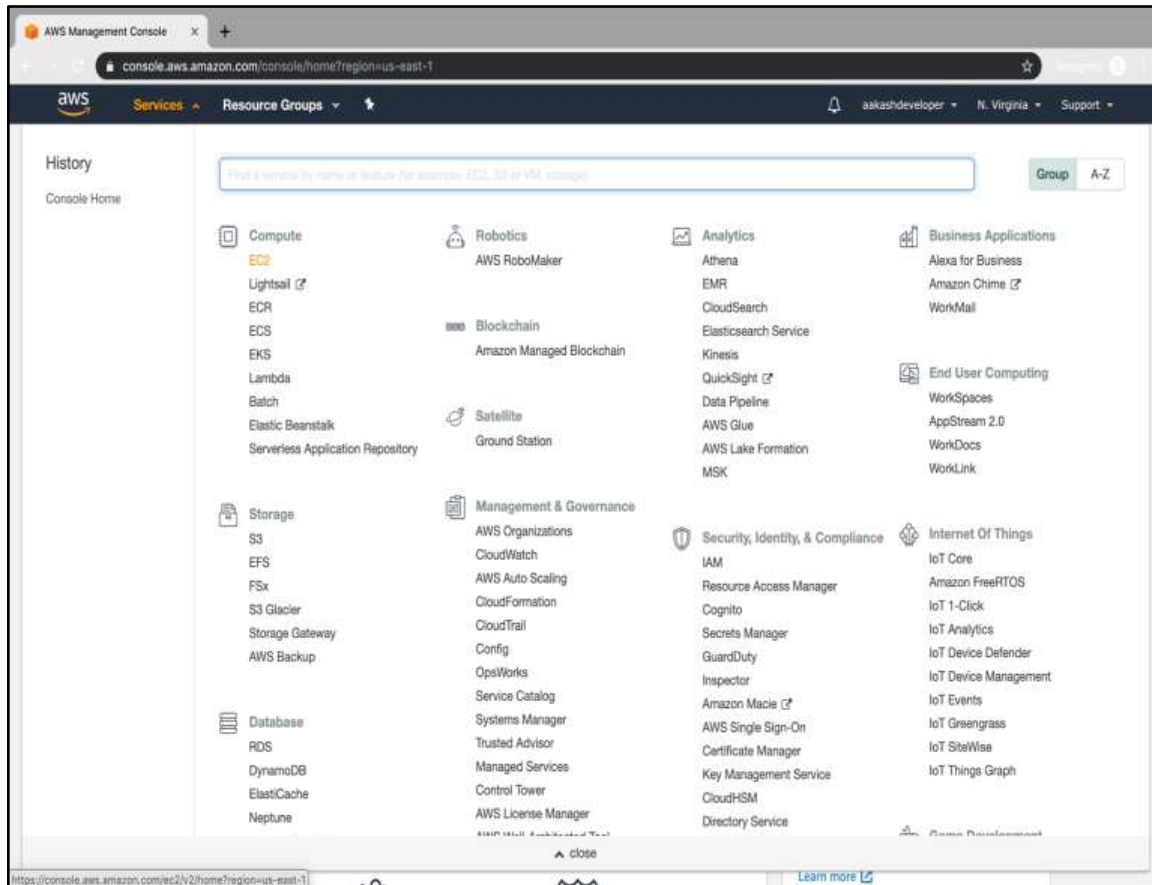
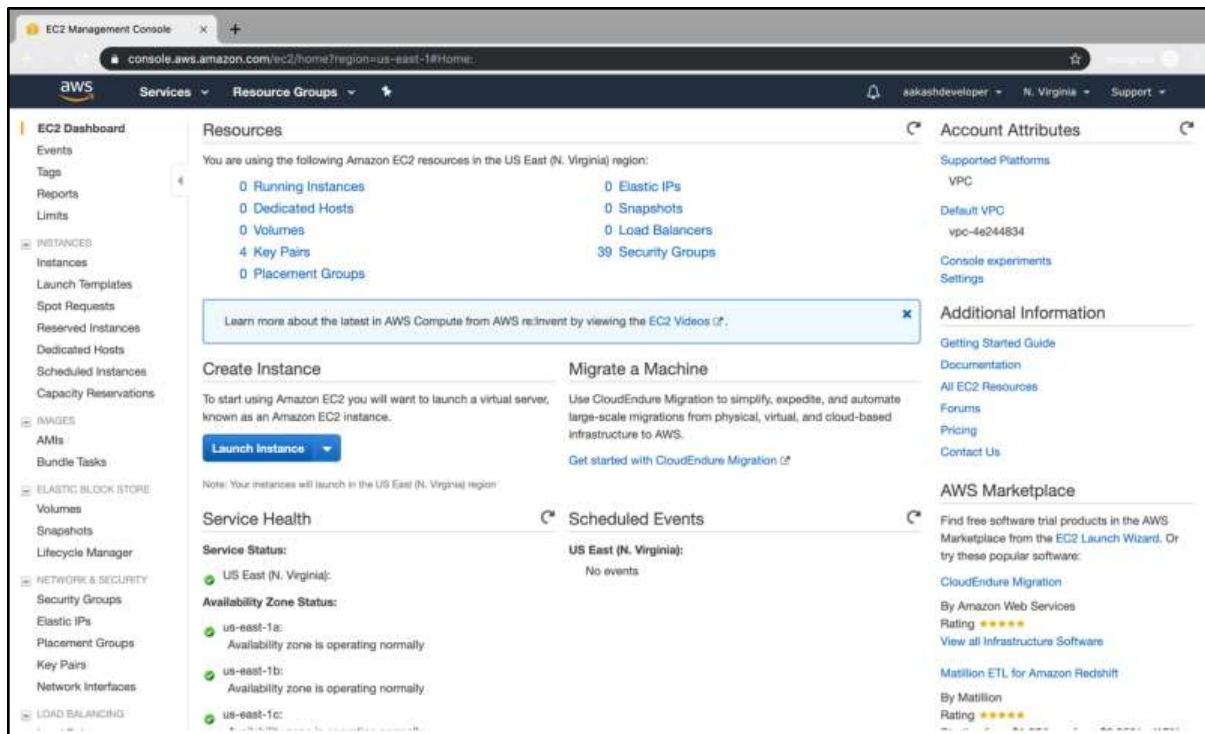


Launching an EC2 instance

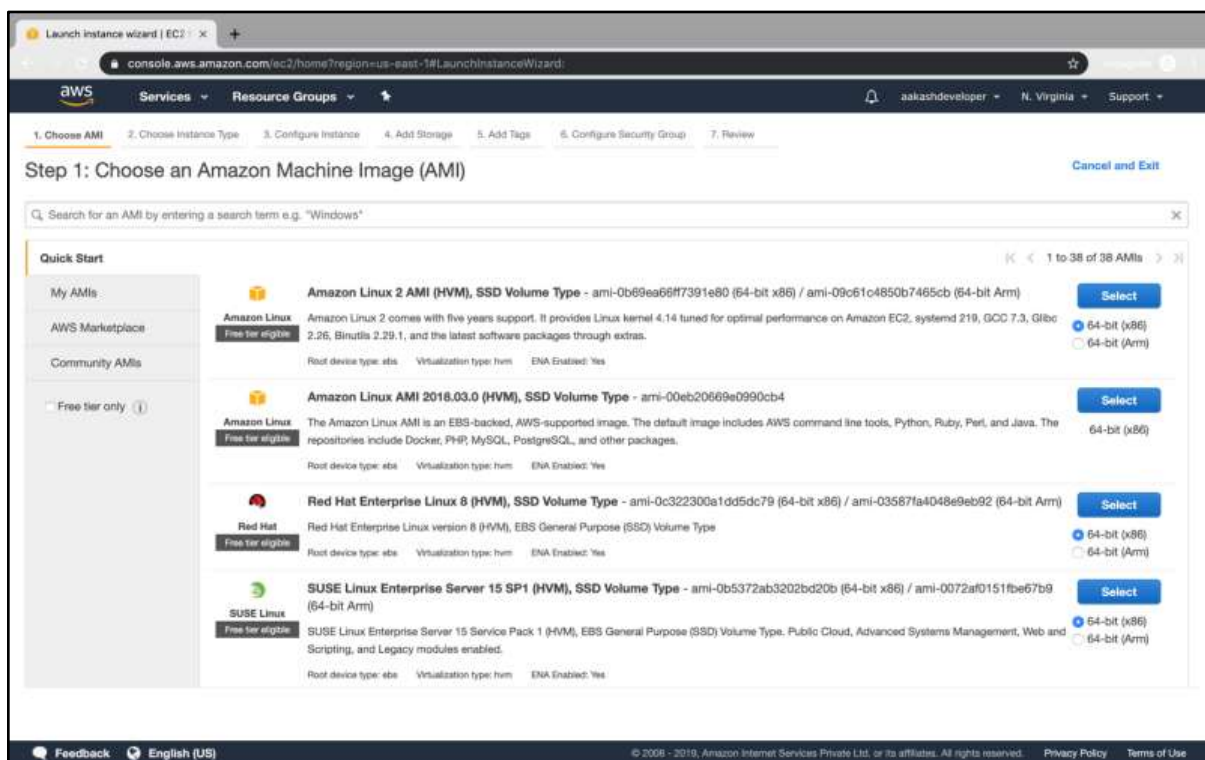
- Go to Amazon dashboard
- Select EC2



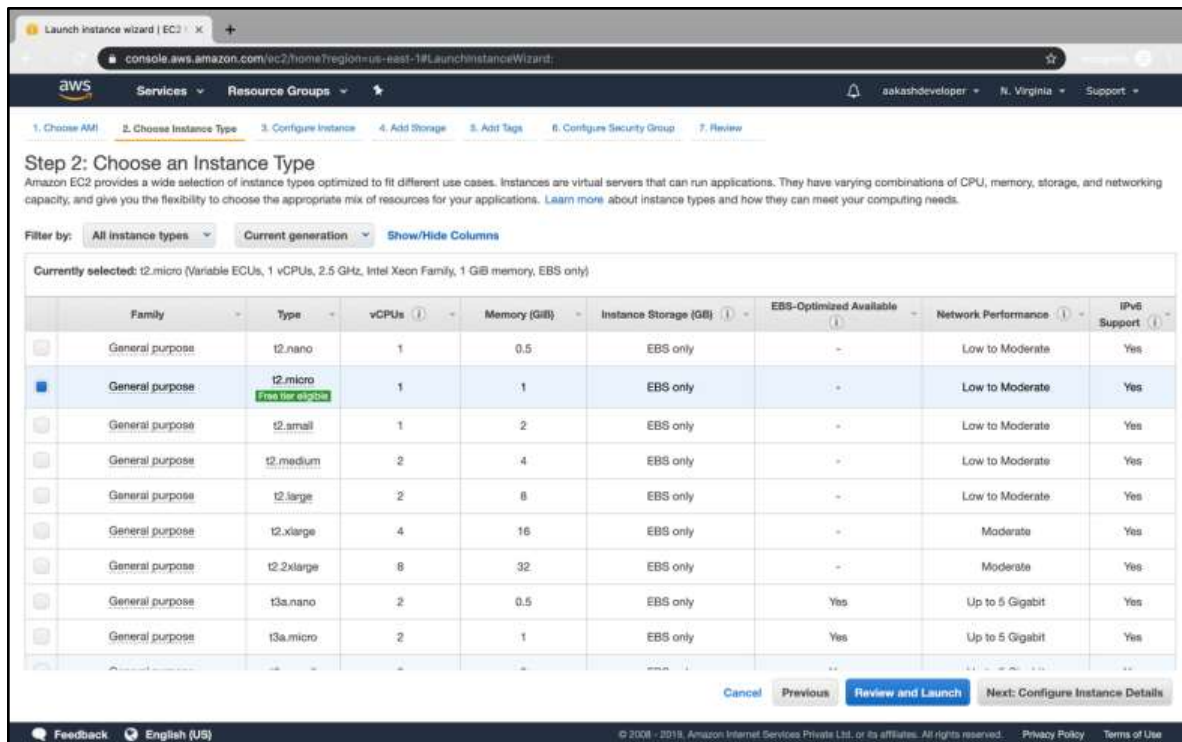
- Click on *launch instance* to run any instance



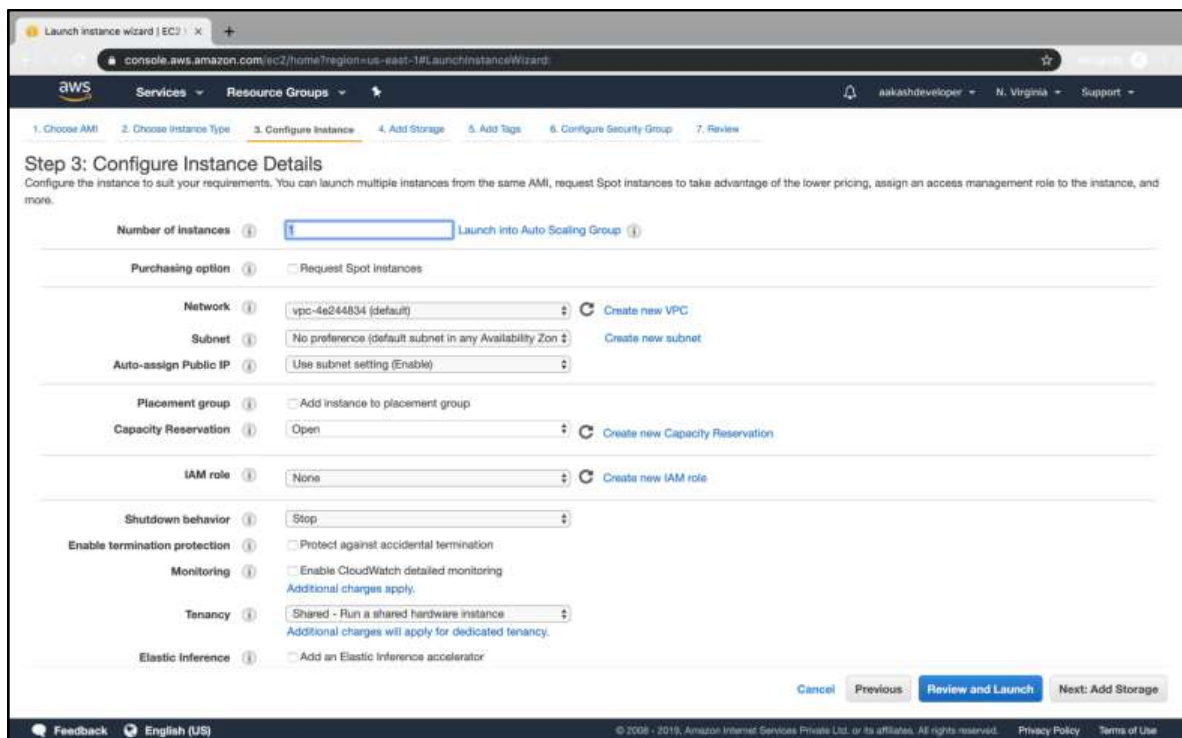
- Select the AMI



- Select t2.micro as the instance type



- Specify the number of instances, networks, placement groups, and IAM roles and click *Next*



- There is one volume attached to the instance by default

- In Linux, the default volume attached is 8 GB
- You can add more volume if required

Launch Instance wizard | EC2

console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstanceWizard

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-05a19c3561abd794a	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous **Review and Launch** Next: Add Tags

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- You can add a key-value pair to the instance

Launch instance wizard | EC2 | x

console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstanceWizard:

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances	Volumes
linux	firstlinux	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

Launch instance wizard | EC2 | x

console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstanceWizard:

aws Services Resource Groups

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 name: launch-wizard-25

Description: launch-wizard-25 created 2019-09-21T06:50:43.598+01:00

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

[Add Rule](#)

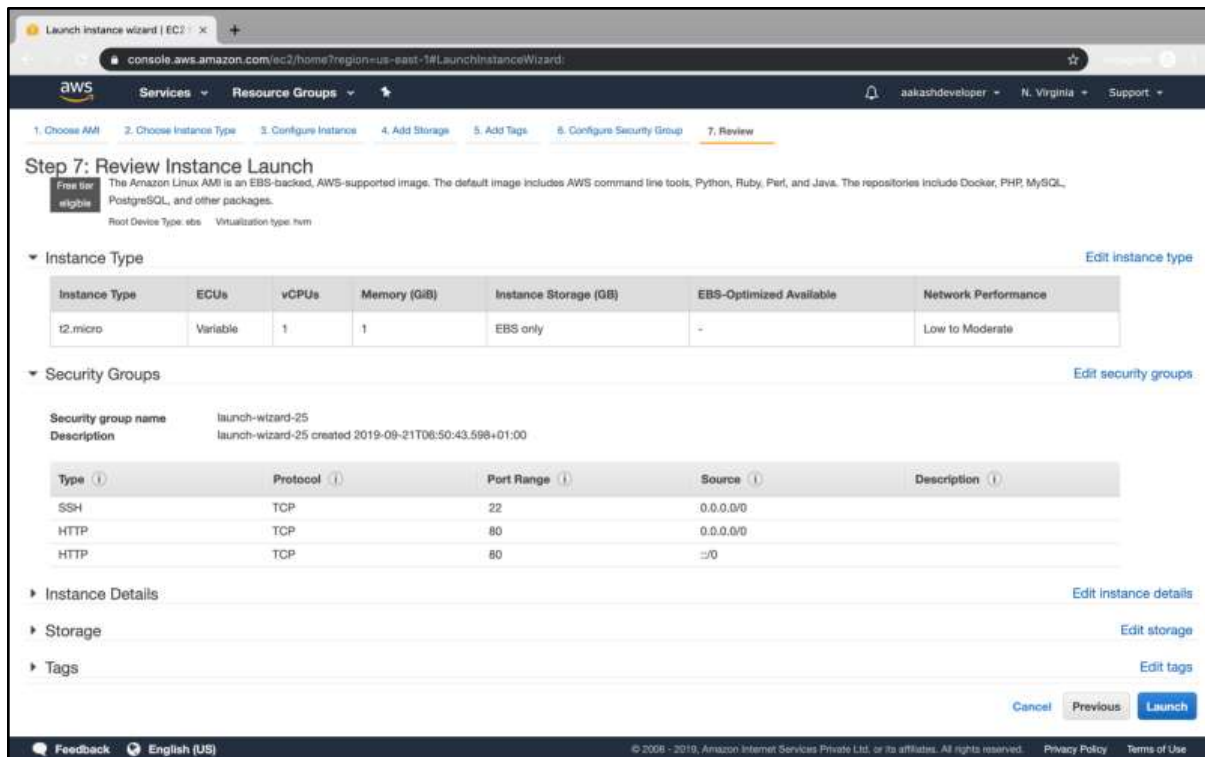
Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

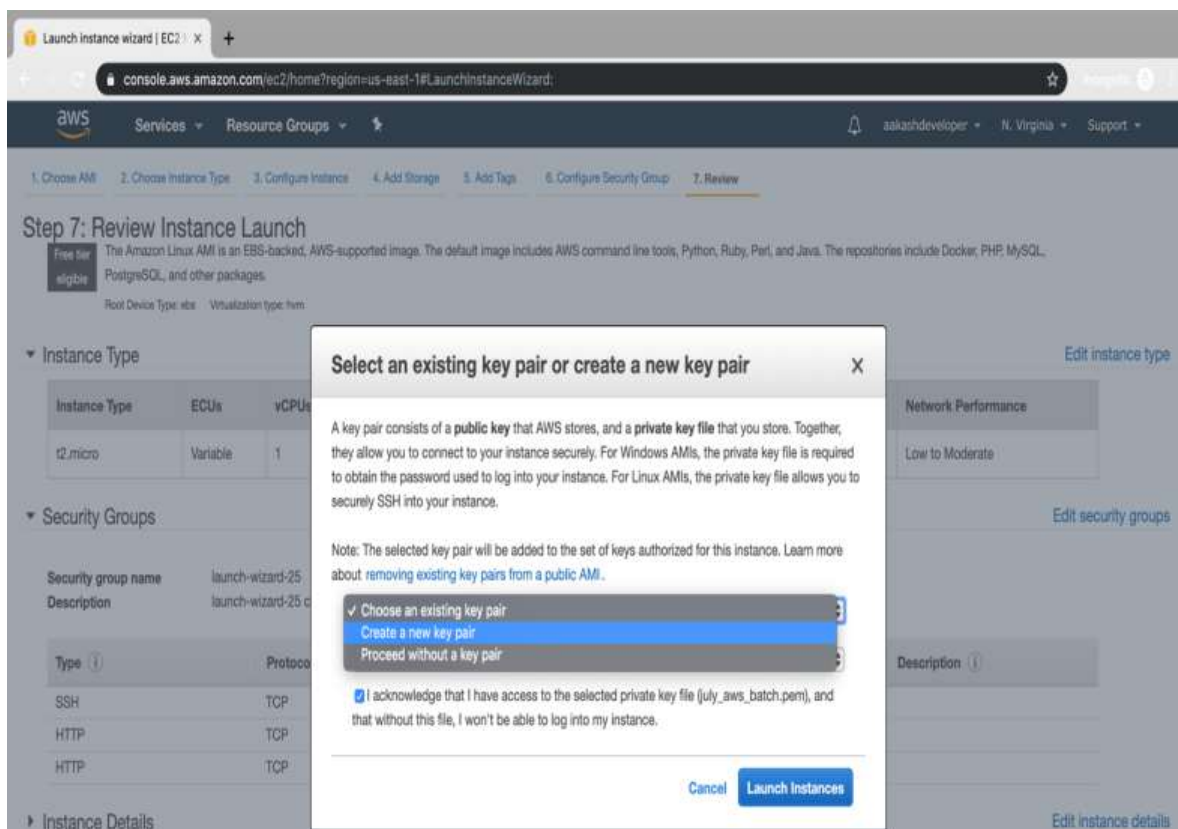
[Cancel](#) [Previous](#) [Review and Launch](#)

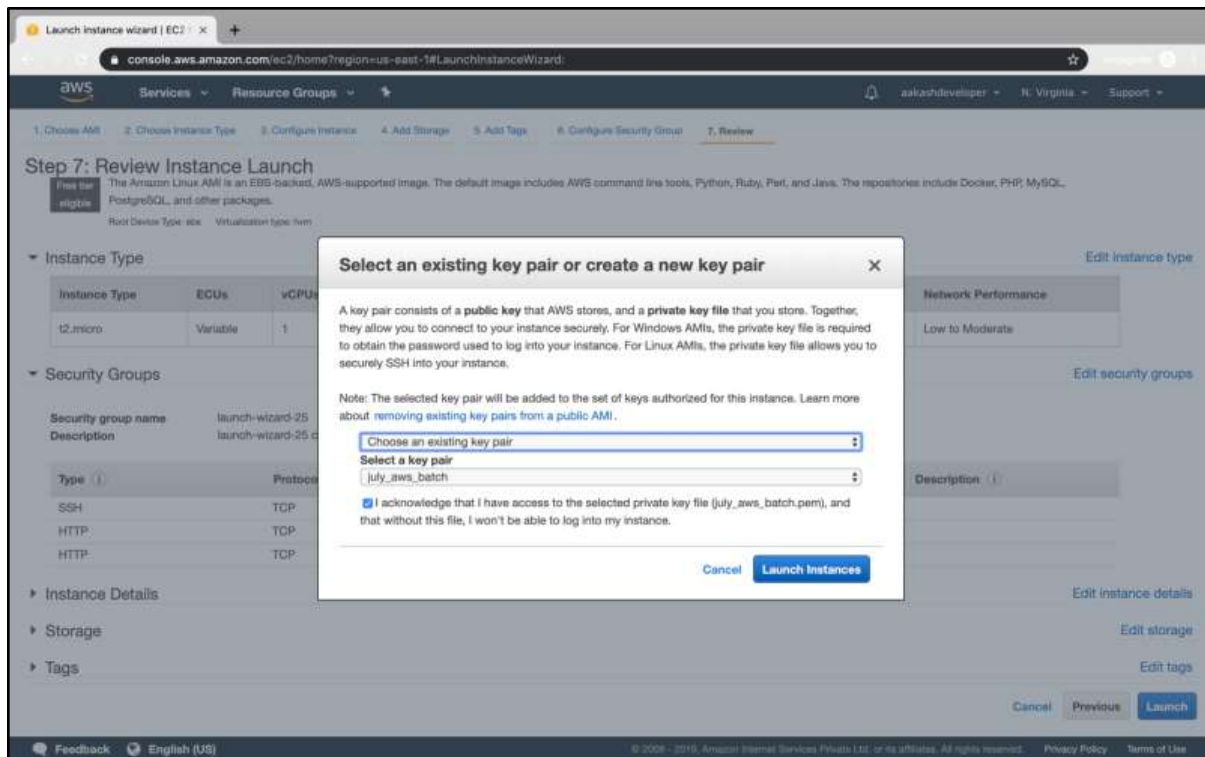
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- Attach the three policy groups depending on the type of access required

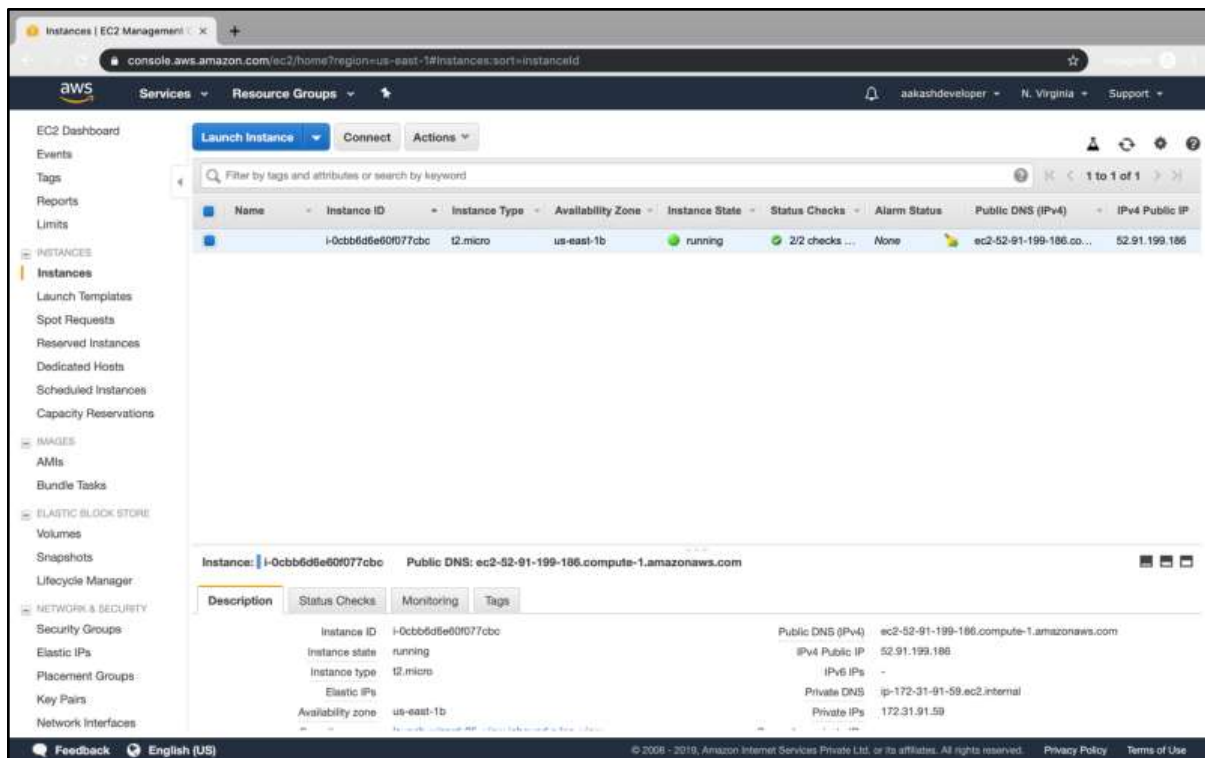


- Select an existing key-value pair to launch the instance





- The instance is ready to use



- Click on *Connect* on EC2 dashboard

- Run the ssh command provided

```
Last login: Fri Sep 20 17:34:39 on ttys001
(base) Avyaans-MacBook-Pro:~ avi$ ssh -i "july_aws_batch.pem" ec2-user@ec2-52-91-199-186.compute-1.amazonaws.com
```

```
(base) Avyaans-MacBook-Pro:Downloads avi$ ssh -i "july_aws_batch.pem" ec2-user@ec2-52-91-199-186.compute-1.amazonaws.com
```

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

```
https://aws.amazon.com/amazon-linux-ami/2018.03-release-notes/
```

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

```
Run "sudo yum update" to apply all updates.
```

```
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory
```

```
[ec2-user@ip-172-31-91-59 ~]$
```

Connecting to an EC2 instance

- Run the following command to launch a website over EC2:

yum install httpd -y

```
[command]
usage: sudo [-AbEHknPS] [-r role] [-t type] [-C fd] [-D level] [-g groupname|#gid] [-p prompt] [-u user name|#uid] [-g
groupname|#gid] [VAR=value] [-i|-s] [<command>]
usage: sudo -e [-AknS] [-r role] [-t type] [-C fd] [-D level] [-g groupname|#gid] [-p prompt] [-u user name|#uid] file ...
[ec2-user@ip-172-31-91-59 ~]$ sudo su -
[root@ip-172-31-91-59 ~]# yum install httpd -y
Loaded plugins: priorities, update-motd, upgrade-helper
amzn-main | 2.1 kB 00:00:00
amzn-updates | 2.5 kB 00:00:00
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.2.34-1.16.amzn1 will be installed
--> Processing Dependency: httpd-tools = 2.2.34-1.16.amzn1 for package: httpd-2.2.34-1.16.amzn1.x86_64
--> Processing Dependency: apr-util-ldap for package: httpd-2.2.34-1.16.amzn1.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.2.34-1.16.amzn1.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.2.34-1.16.amzn1.x86_64
--> Running transaction check
--> Package apr.x86_64 0:1.5.2-5.13.amzn1 will be installed
--> Package apr-util.x86_64 0:1.5.4-6.18.amzn1 will be installed
--> Package apr-util-ldap.x86_64 0:1.5.4-6.18.amzn1 will be installed
--> Package httpd-tools.x86_64 0:2.2.34-1.16.amzn1 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
httpd x86_64 2.2.34-1.16.amzn1 amzn-main 1.2 M
Installing for dependencies:
apr x86_64 1.5.2-5.13.amzn1 amzn-main 118 k
apr-util x86_64 1.5.4-6.18.amzn1 amzn-main 99 k
apr-util-ldap x86_64 1.5.4-6.18.amzn1 amzn-main 19 k
httpd-tools x86_64 2.2.34-1.16.amzn1 amzn-main 80 k
=====

Transaction Summary
=====
```

- Navigate to /var/www/html and create index.html file using command

vi index.html

- Using public IP of EC2 instance, you can see your app running on the browser

```
[root@ip-172-31-91-59 html]# service httpd start
Starting httpd: [ OK ]
[root@ip-172-31-91-59 html]#
```

