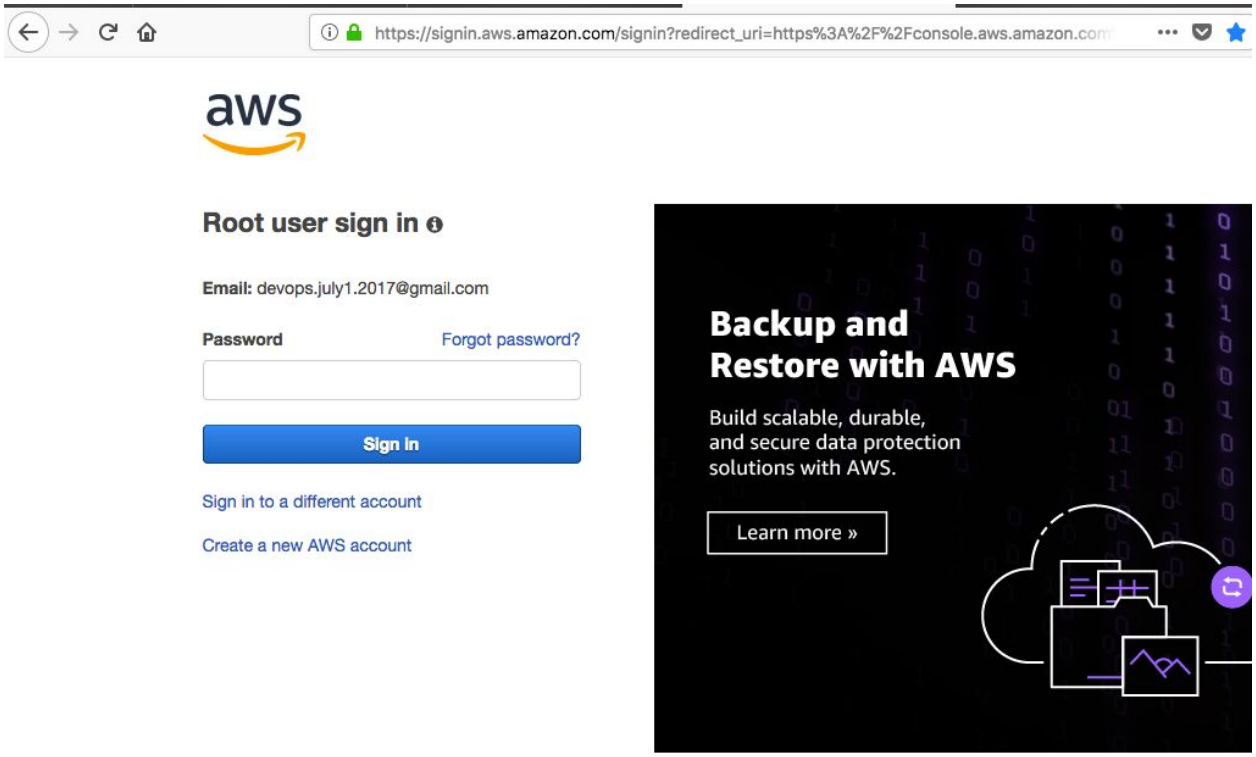
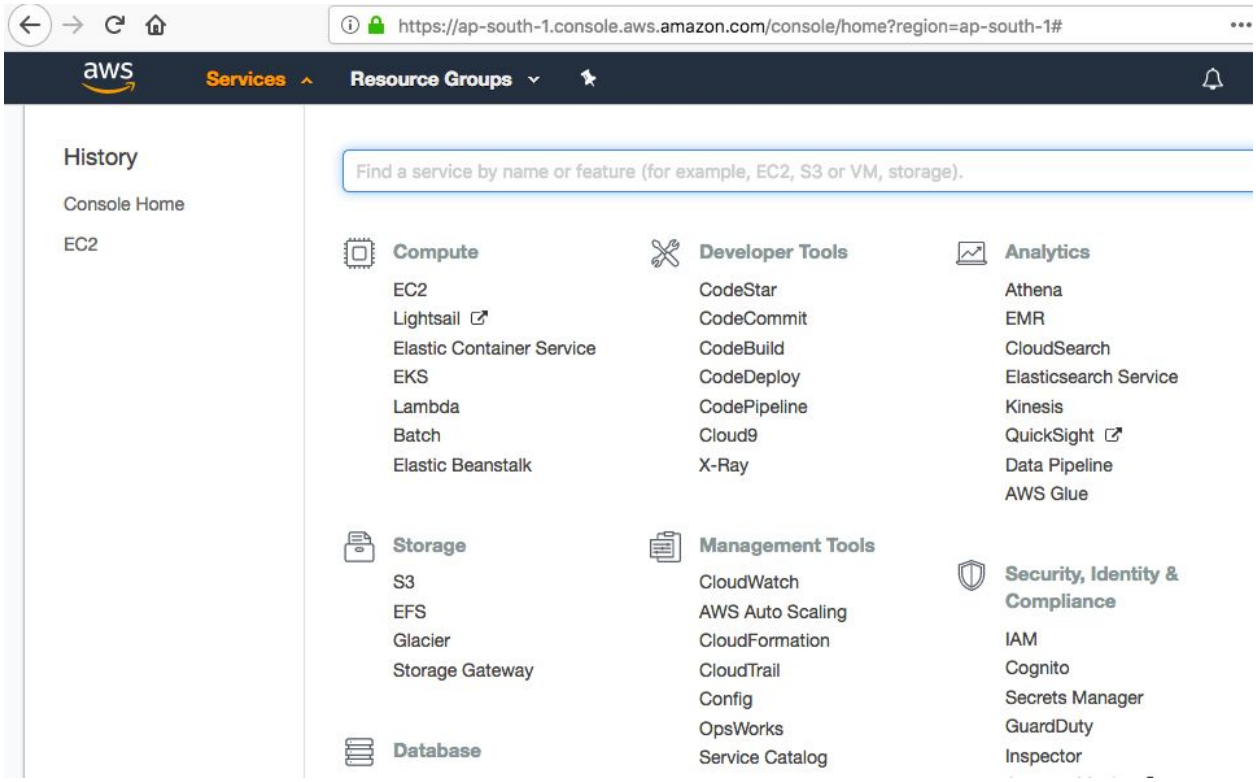
AWS EC2 instance

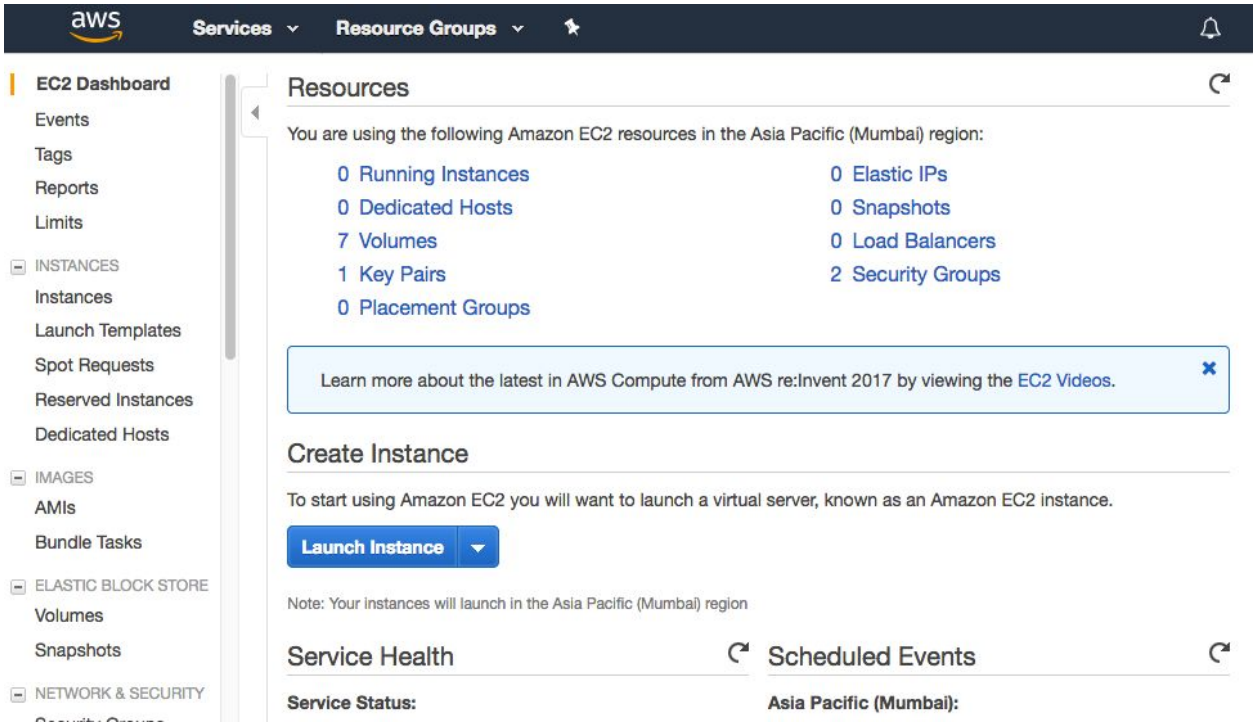
Login the aws console:



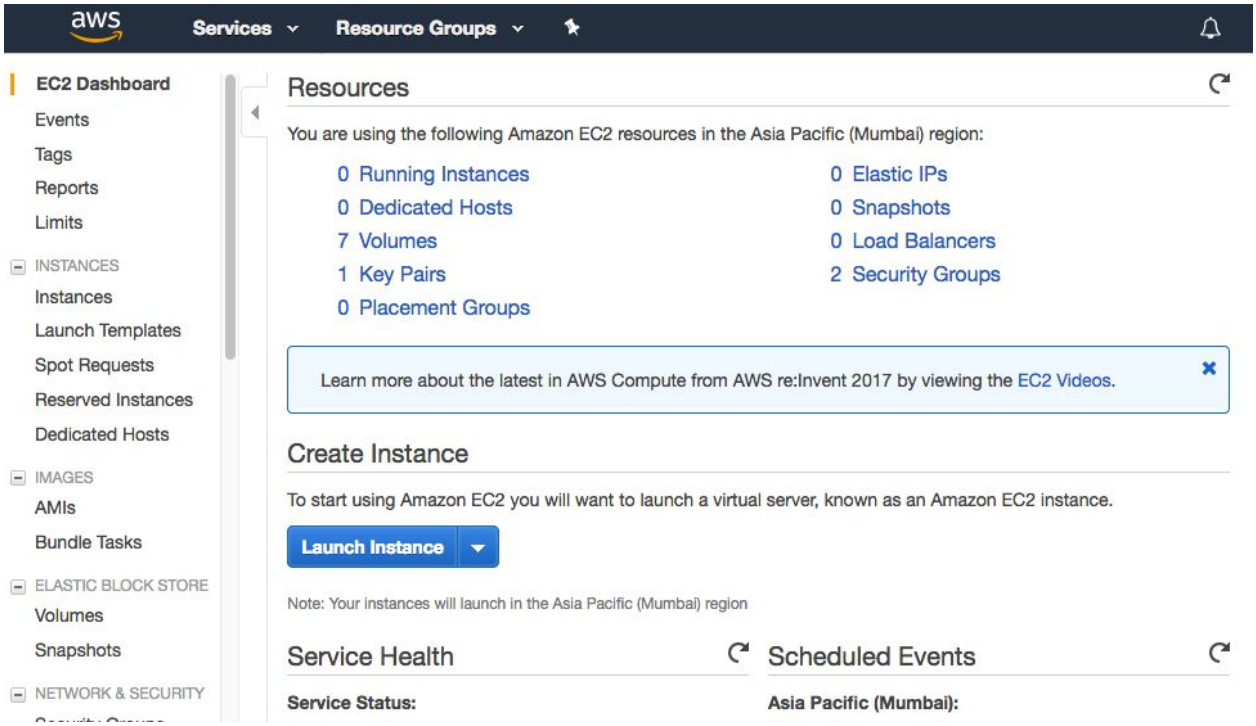
2. Select the ec2 service from the services list:



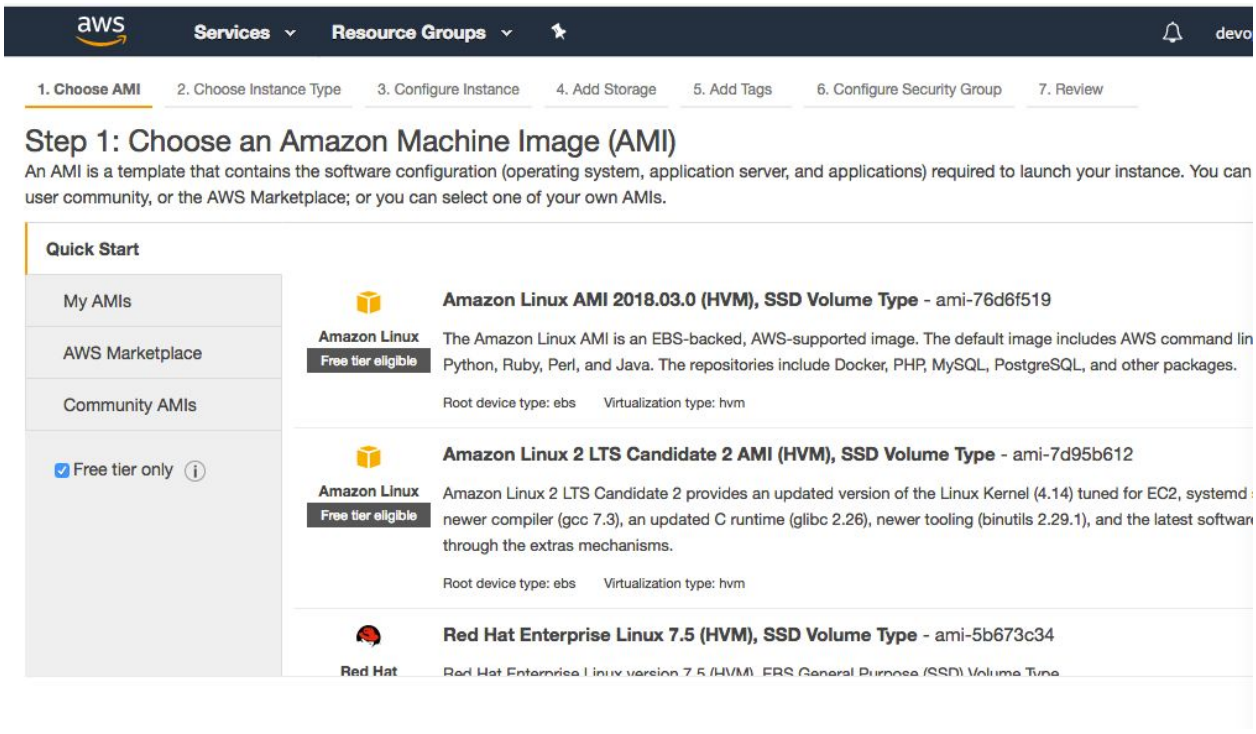
3. Ec2 management console:



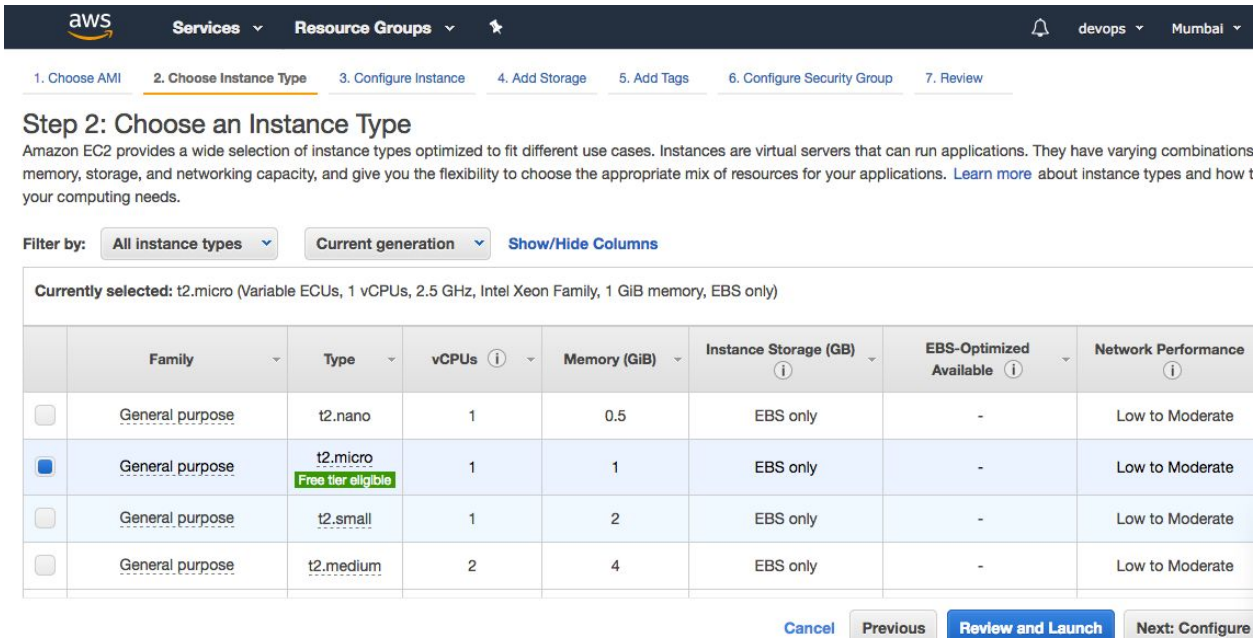
4. Choose launch instance:



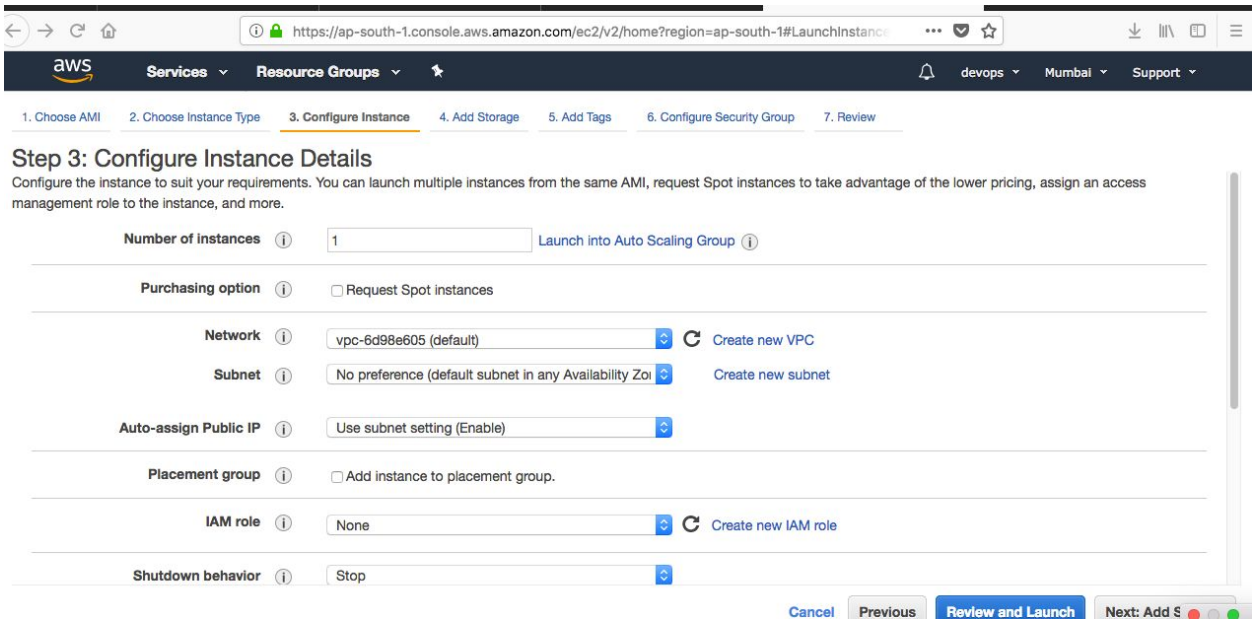
5. Select free tier and ubuntu AMI:

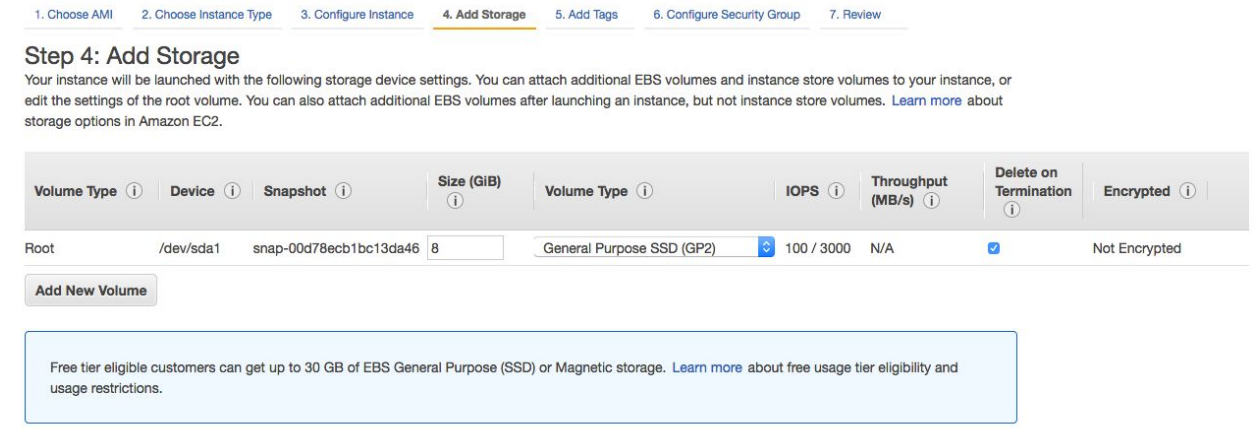


6.

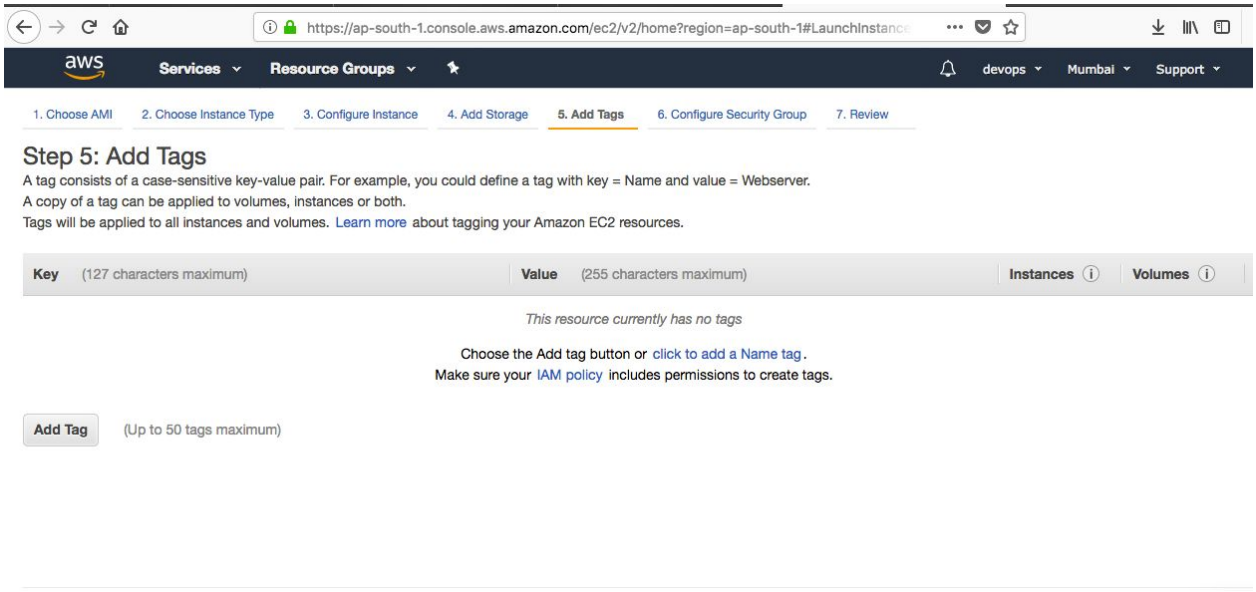

aws
Services
Resource Groups
devops
Mumbai
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations
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 t
your computing needs.
Filter by:
All instance types
Current generation
Show/Hide Columns
Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)
Family
Type
vCPUs
Memory (GiB)
Instance Storage (GB)
EBS-Optimized Available
Network Performance
General purpose
t2.nano
1
0.5
EBS only
-
Low to Moderate
General purpose
t2.micro
Free tier eligible
1
1
EBS only
-
Low to Moderate
General purpose
t2.small
1
2
EBS only
-
Low to Moderate
General purpose
t2.medium
2
4
EBS only
-
Low to Moderate
Cancel
Previous
Review and Launch
Next: Configure

7.


https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanc
aws
Services
Resource Groups
devops
Mumbai
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access
management role to the instance, and more.
Number of instances
1
Launch into Auto Scaling Group
Purchasing option
Request Spot instances
Network
vpc-6d98e605 (default)
Create new VPC
Subnet
No preference (default subnet in any Availability Zo
Create new subnet
Auto-assign Public IP
Use subnet setting (Enable)
Placement group
Add instance to placement group.
IAM role
None
Create new IAM role
Shutdown behavior
Stop
Cancel
Previous
Review and Launch
Next: Add S


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
Encrypted
Root
/dev/sda1
snap-00d78ecb1bc13da46
8
General Purpose SSD (GP2)
100 / 3000
N/A
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.

9.


https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstance
aws
Services
Resource Groups
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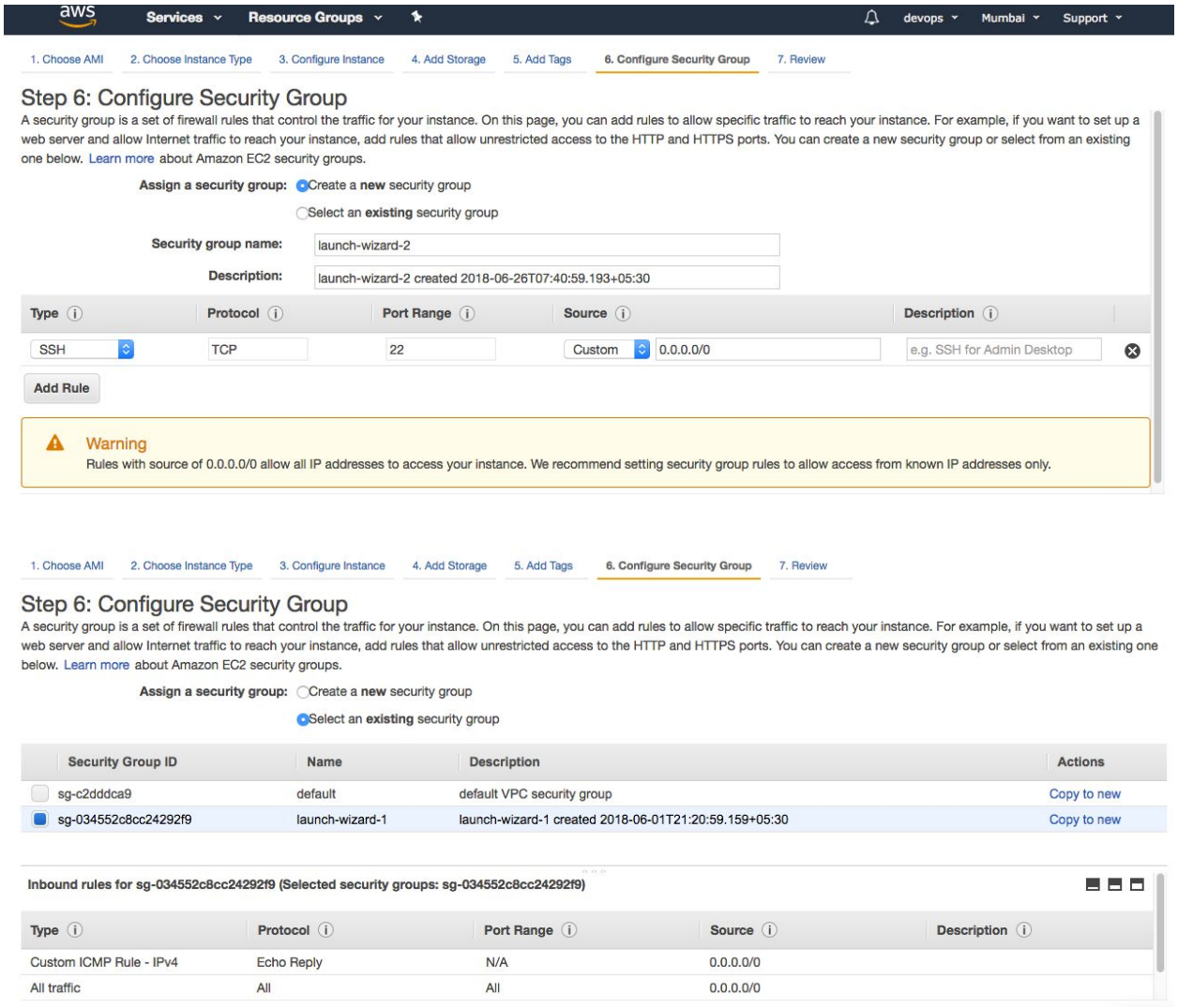
Mumbai
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 5: Add Tags
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can 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 (127 characters maximum)
Value (255 characters maximum)
Instances
Volumes
This resource currently has no tags
Choose the Add tag button or click to add a Name tag.
Make sure your IAM policy includes permissions to create tags.
Add Tag
(Up to 50 tags maximum)

10.


aws
Services
Resource Groups
devops
Mumbai
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 name: launch-wizard-2
Description: launch-wizard-2 created 2018-06-26T07:40:59.193+05:30
Type
Protocol
Port Range
Source
Description
SSH
TCP
22
Custom
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.

1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
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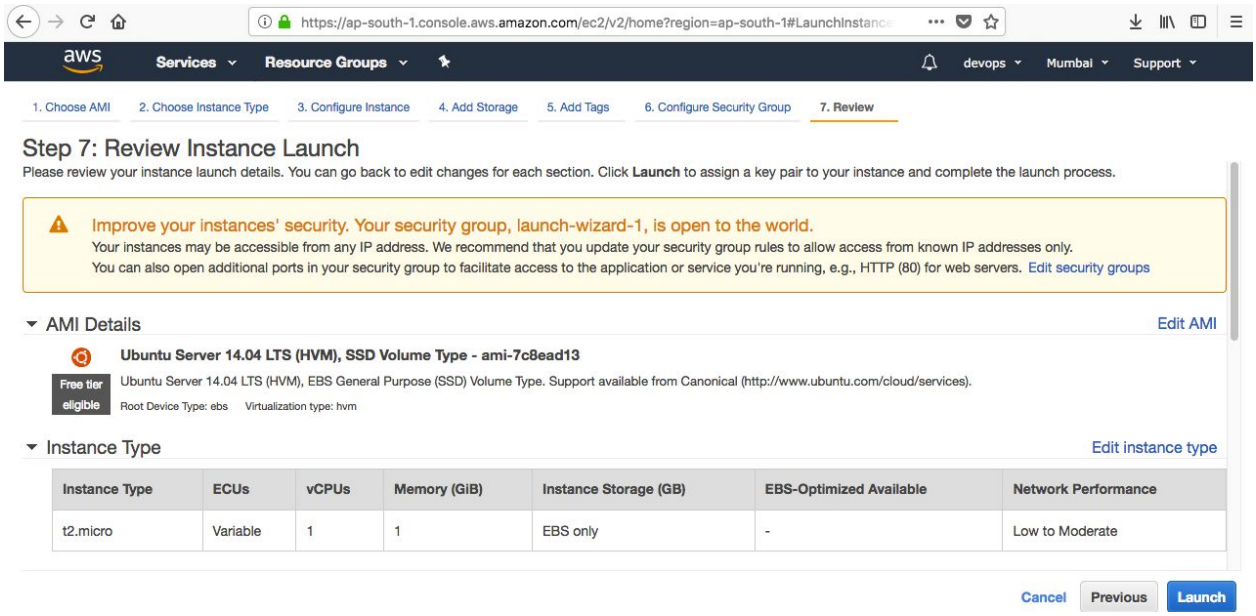
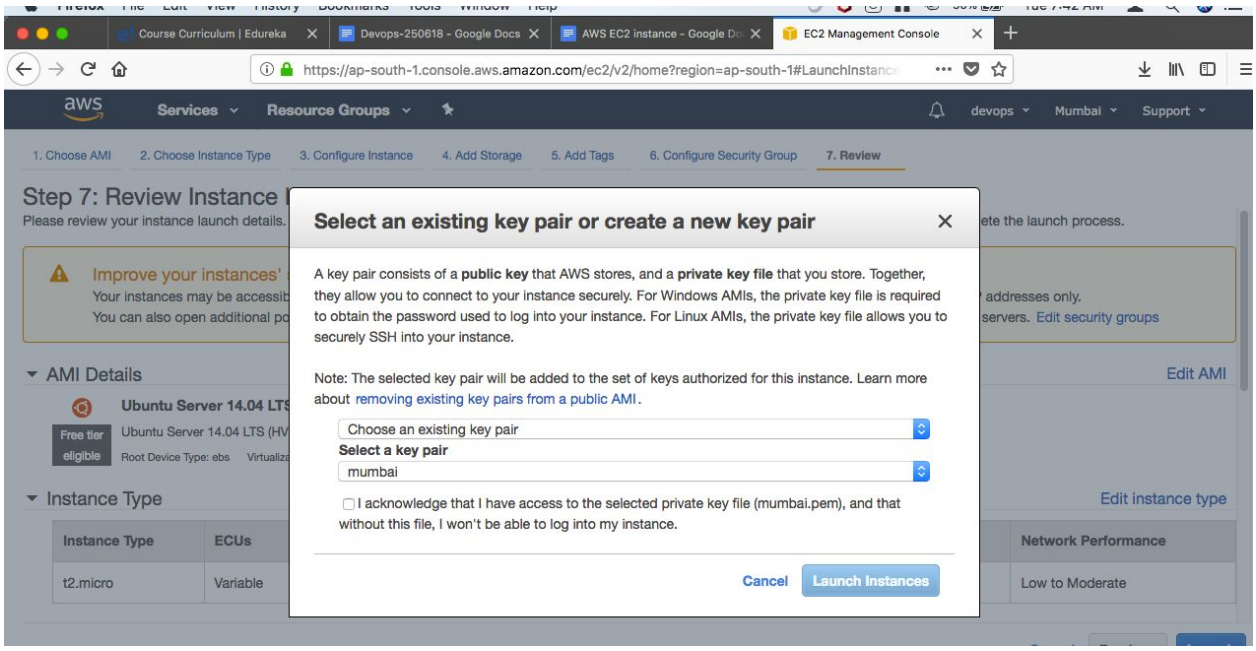
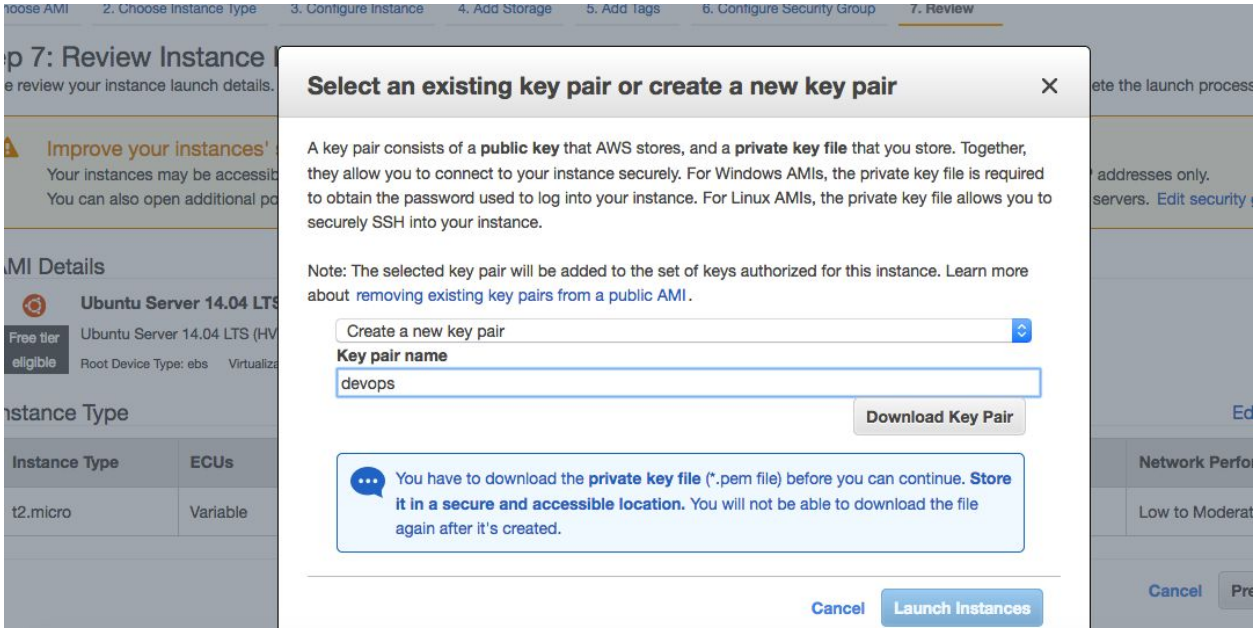
Assign a security group: Create a new security group
Select an existing security group
Security Group ID
Name
Description
Actions
sg-c2dddca9
default
default VPC security group
Copy to new
sg-034552c8cc24292f9
launch-wizard-1
launch-wizard-1 created 2018-06-01T21:20:59.159+05:30
Copy to new
Inbound rules for sg-034552c8cc24292f9 (Selected security groups: sg-034552c8cc24292f9)
Type
Protocol
Port Range
Source
Description
Custom ICMP Rule - IPv4
Echo Reply
N/A
0.0.0.0/0
All traffic
All
All
0.0.0.0/0

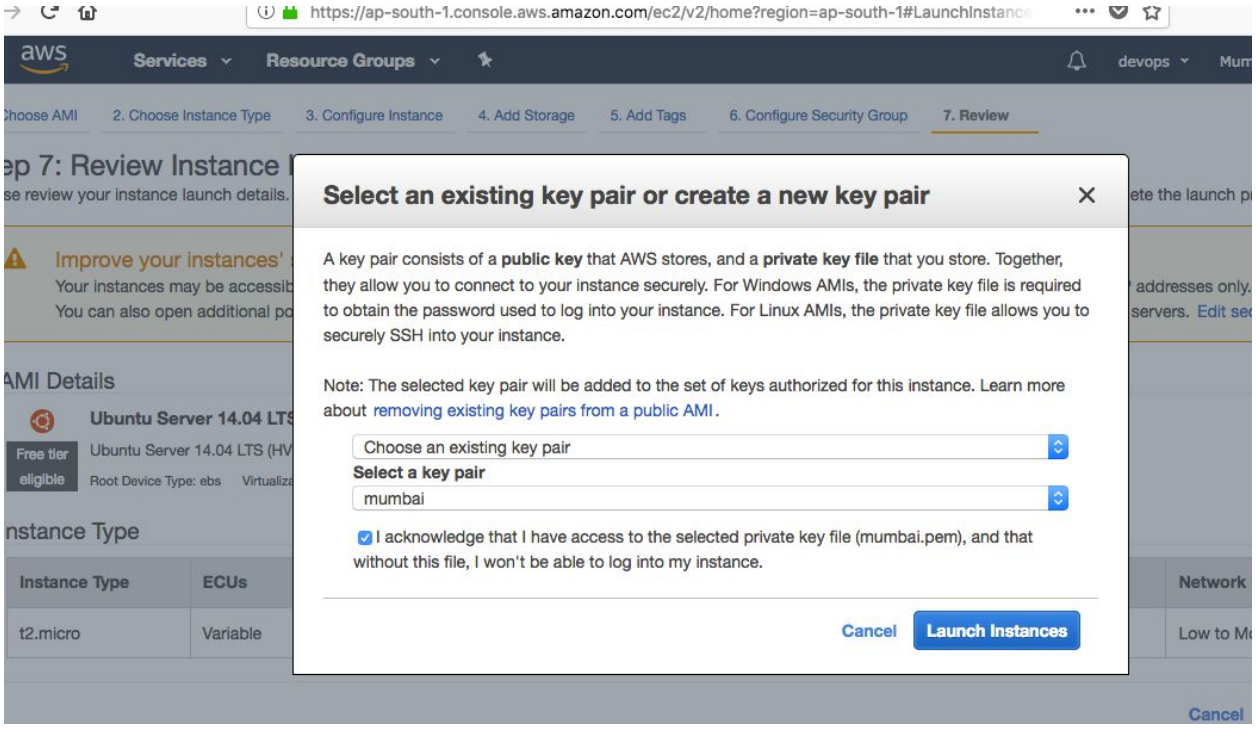


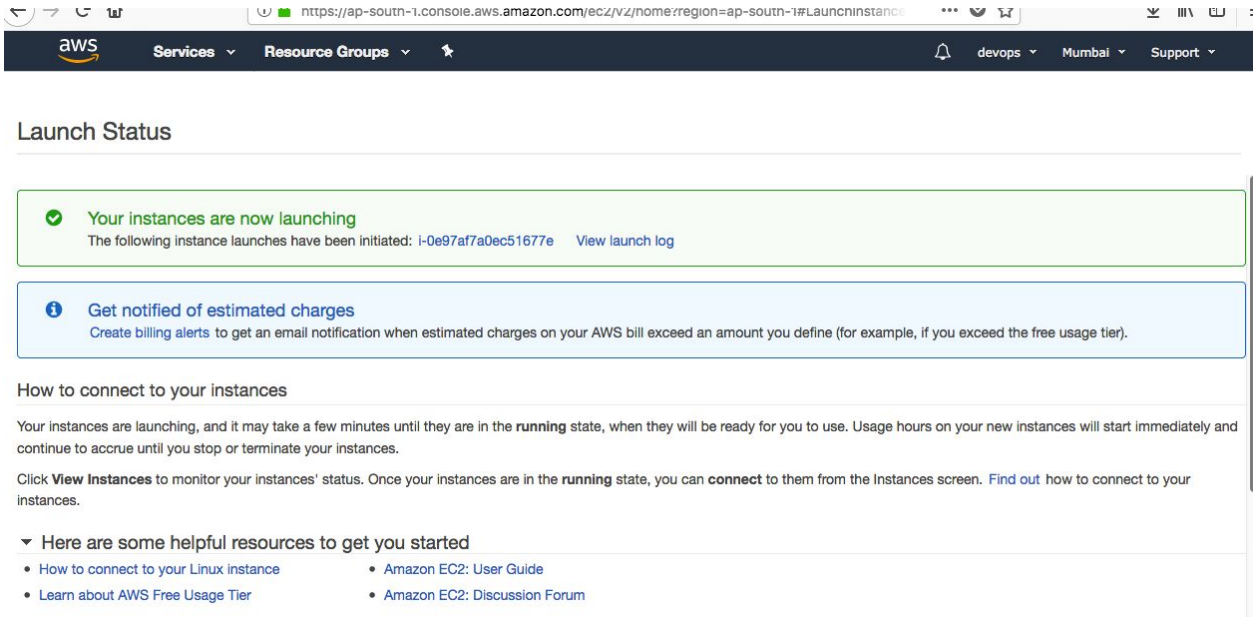
Select launch button:

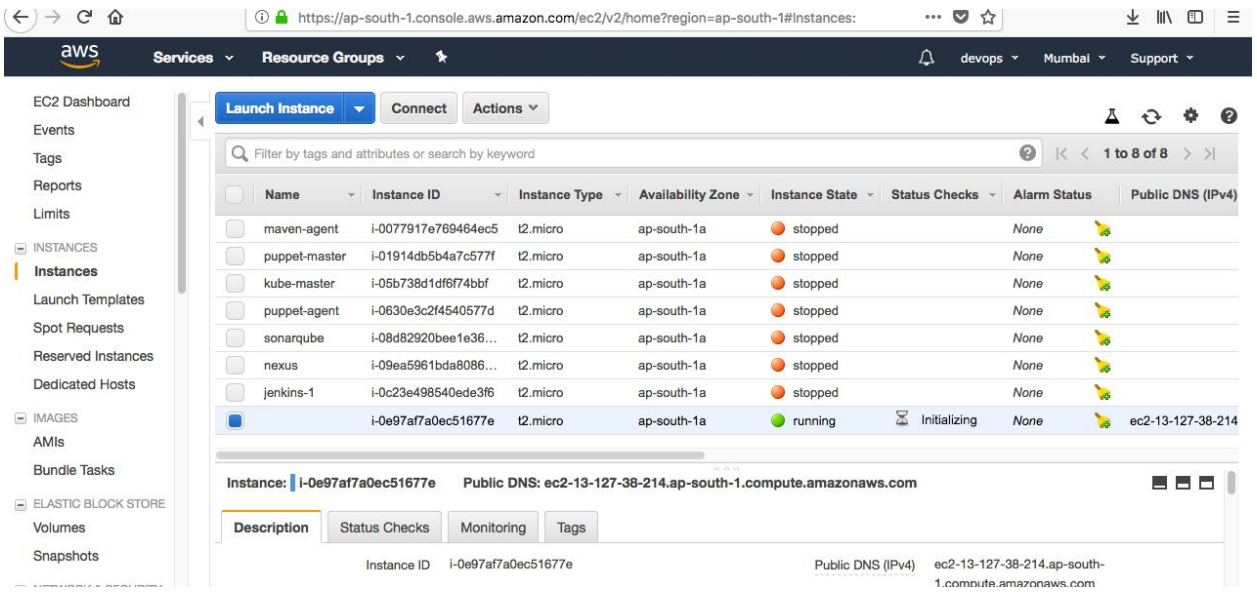
Create the key pair:

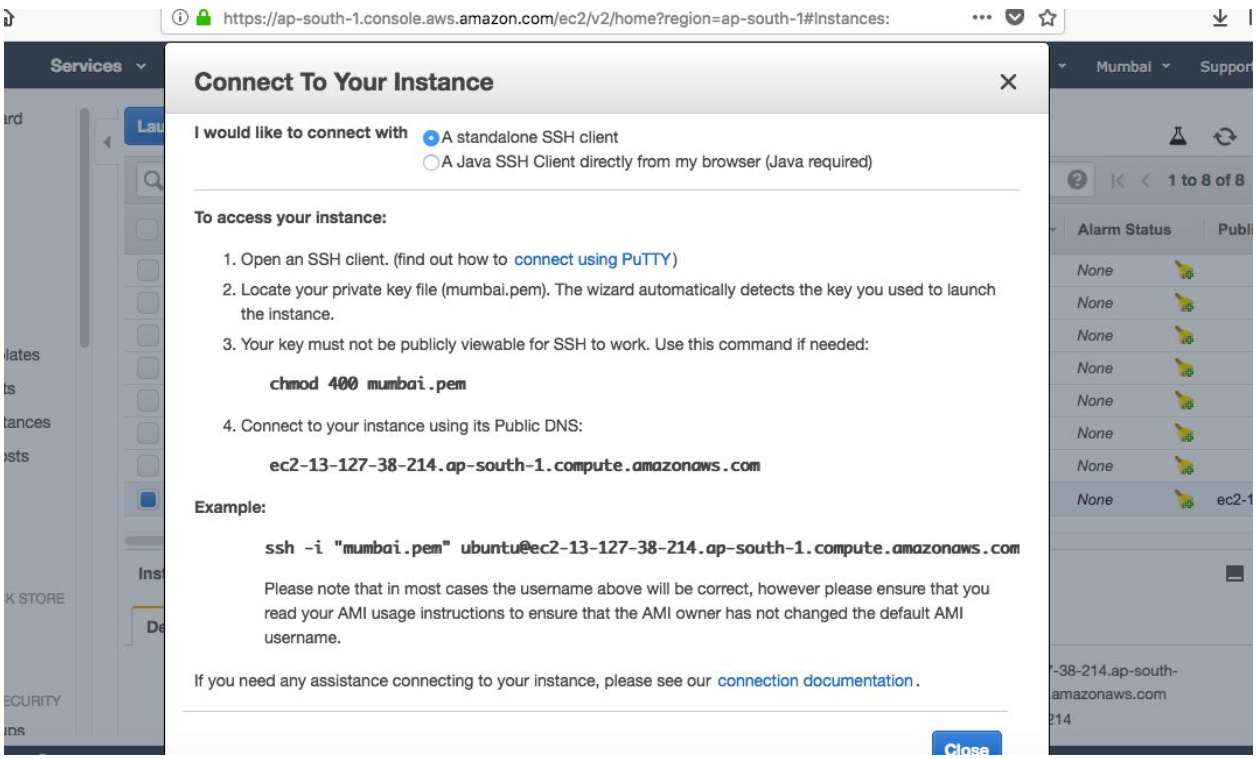



2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Select an existing key pair or create a new key pair
A key pair consists of a public key that AWS stores, and a private key file that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.
Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.
Create a new key pair
Key pair name
devops
Download Key Pair
You have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.
Cancel
Launch Instances


https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstance
aws
Services
Resource Groups
devops
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Select an existing key pair or create a new key pair
A key pair consists of a public key that AWS stores, and a private key file that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.
Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.
Choose an existing key pair
Select a key pair
mumbai
I acknowledge that I have access to the selected private key file (mumbai.pem), and that without this file, I won't be able to log into my instance.
Cancel
Launch Instances


Services
Resource Groups
devops
Mumbai
Support
Launch Status
Your instances are now launching
The following instance launches have been initiated: i-0e97af7a0ec51677e
View launch log
Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).
How to connect to your instances
Your instances are launching, and it may take a few minutes until they are in the running state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.
Click View Instances to monitor your instances' status. Once your instances are in the running state, you can connect to them from the Instances screen. Find out how to connect to your instances.
Here are some helpful resources to get you started
How to connect to your Linux instance
Learn about AWS Free Usage Tier
Amazon EC2: User Guide
Amazon EC2: Discussion Forum


https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:
Services
Resource Groups
devops
Mumbai
Support
EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Launch Templates
Spot Requests
Reserved Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
Launch Instance
Connect
Actions
Filter by tags and attributes or search by keyword
1 to 8 of 8
Name
Instance ID
Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Public DNS (IPv4)
maven-agent i-0077917e769464ec5 t2.micro ap-south-1a stopped None
puppet-master i-01914db5b4a7c577f t2.micro ap-south-1a stopped None
kube-master i-05b738d1df6f74bbf t2.micro ap-south-1a stopped None
puppet-agent i-0630e3c2f4540577d t2.micro ap-south-1a stopped None
sonarqube i-08d82920bee1e36... t2.micro ap-south-1a stopped None
nexus i-09ea5961bda8086... t2.micro ap-south-1a stopped None
jenkins-1 i-0c23e498540ede3f6 t2.micro ap-south-1a stopped None
i-0e97af7a0ec51677e t2.micro ap-south-1a running Initializing None ec2-13-127-38-214
Instance: i-0e97af7a0ec51677e
Public DNS: ec2-13-127-38-214.ap-south-1.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID i-0e97af7a0ec51677e
Public DNS (IPv4) ec2-13-127-38-214.ap-south-1.compute.amazonaws.com



Open terminal:

ssh -i "mumbai.pem" ubuntu@ec2-13-127-38-214.ap-south-1.compute.amazonaws.com

```
L-156047061:Downloads ra263118$ ssh -i "mumbai.pem" ubuntu@ec2-13-127-38-214.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-13-127-38-214.ap-south-1.compute.amazonaws.com (13.127.38.214)' can't be established
.
ECDSA key fingerprint is SHA256:Oojuz9Usw1dQq41PwiccrR0GfJ1kH2fhSPTqpCbfiB8.
Are you sure you want to continue connecting (yes/no)?
```

```
...gitlab: ~ — ssh ‹ vagrant ssh gitlab.example.com ...  ...nt: ~ — ssh ‹ vagrant ssh gitclient.example.com ...  ~/devops28/multi-vagrant-vms — -bash  ...-38-214.ap-south-1.compute.amazonaws.com
0 updates are security updates.


The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.


----------------------------------------------------------------------
WARNING! Your environment specifies an invalid locale.
 This can affect your user experience significantly, including the
 ability to manage packages. You may install the locales by running:

   sudo apt-get install language-pack-UTF-8
     or
   sudo locale-gen UTF-8

To see all available language packs, run:
   apt-cache search "^language-pack-[a-z][a-z]$"
To disable this message for all users, run:
   sudo touch /var/lib/cloud/instance/locale-check.skip
----------------------------------------------------------------------

ubuntu@ip-172-31-23-146:~$
```

```
...gitlab: ~ — ssh ‹ vagrant ssh gitlab.example.com ...  ...nt: ~ — ssh ‹ vagrant ssh gitclient.example.com ...  ~/devops28/multi-vagrant-vms — -bash  ...-38-214.ap-south-1.compute.amazo
   sudo apt-get install language-pack-UTF-8
     or
   sudo locale-gen UTF-8

To see all available language packs, run:
   apt-cache search "^language-pack-[a-z][a-z]$"
To disable this message for all users, run:
   sudo touch /var/lib/cloud/instance/locale-check.skip
----------------------------------------------------------------------

ubuntu@ip-172-31-23-146:~$ sudo -i
----------------------------------------------------------------------
WARNING! Your environment specifies an invalid locale.
 This can affect your user experience significantly, including the
 ability to manage packages. You may install the locales by running:

   sudo apt-get install language-pack-UTF-8
     or
   sudo locale-gen UTF-8

To see all available language packs, run:
   apt-cache search "^language-pack-[a-z][a-z]$"
To disable this message for all users, run:
   sudo touch /var/lib/cloud/instance/locale-check.skip
----------------------------------------------------------------------

root@ip-172-31-23-146:~#
```