WEL COME

LockThreat Technologies

EC2 (ELASTIC COMPUTE CLOUD)

AWS

WHAT IS EC2 ?

- Elastic Compute Cloud is used to launch virtual Servers when on demand.
- Provides scalable computing capacity.
- Faster development and deployment of applications.
- Eliminates invest in hardware.
- Configures security, networking and manage storage.

- Virtual computing environments, known as ***instances***
- Preconfigured templates for your instances, known as ***Amazon Machine Images (AMIs)***, that package the bits you need for your server (including the operating system and additional software)
- Various configurations of CPU, memory, storage, and networking capacity for your instances, known as ***instance types***
- Secure login information for your instances using ***key pairs*** (AWS stores the public key, and you store the private key in a secure place)
- A firewall that enables you to specify the protocols, ports, and source IP ranges that can reach your instances using ***security groups***
- **Static IPv4** addresses for dynamic cloud computing, known as *Elastic IP addresses*
- Virtual networks you can create that are logically isolated from the rest of the AWS Cloud, and that you can optionally connect to your own network, known as *virtual private clouds* (**VPCs)**

FEATURES OF AMAZON EC2

PRACTICAL

OPEN AWS MANAGEMENT CONSOLE IN GOOGLE

Amazon Web Services - AWS Re | AWS Management Console

aws.amazon.com/console/

aws

Contact Us | Support | English | My Account | Sign In to the Console

re:Invent | Products | Solutions | Pricing | Documentation | Learn | Partner Network | AWS Marketplace | Customer Enablement | Events | Explore More

AWS Management Console | Overview | Features | FAQs

AWS Management Console

Everything you need to access and manage the AWS Cloud — in one web interface

Log back in

Free AWS Training

Advance your career with AWS Cloud

AWS Certification

Propel your career forward with AWS

AWS Cloud Training

Comprehensive training that accelerates

AWS Training

Free digital courses to help you develop

ALWAYS LOGIN IN ROOT USER

Amazon Web Services - AWS Re

Amazon Web Services Sign-In

signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3FhashArgs%3D%2523%26isauthcode%3Dtrue%26...

aws

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

username@example.com

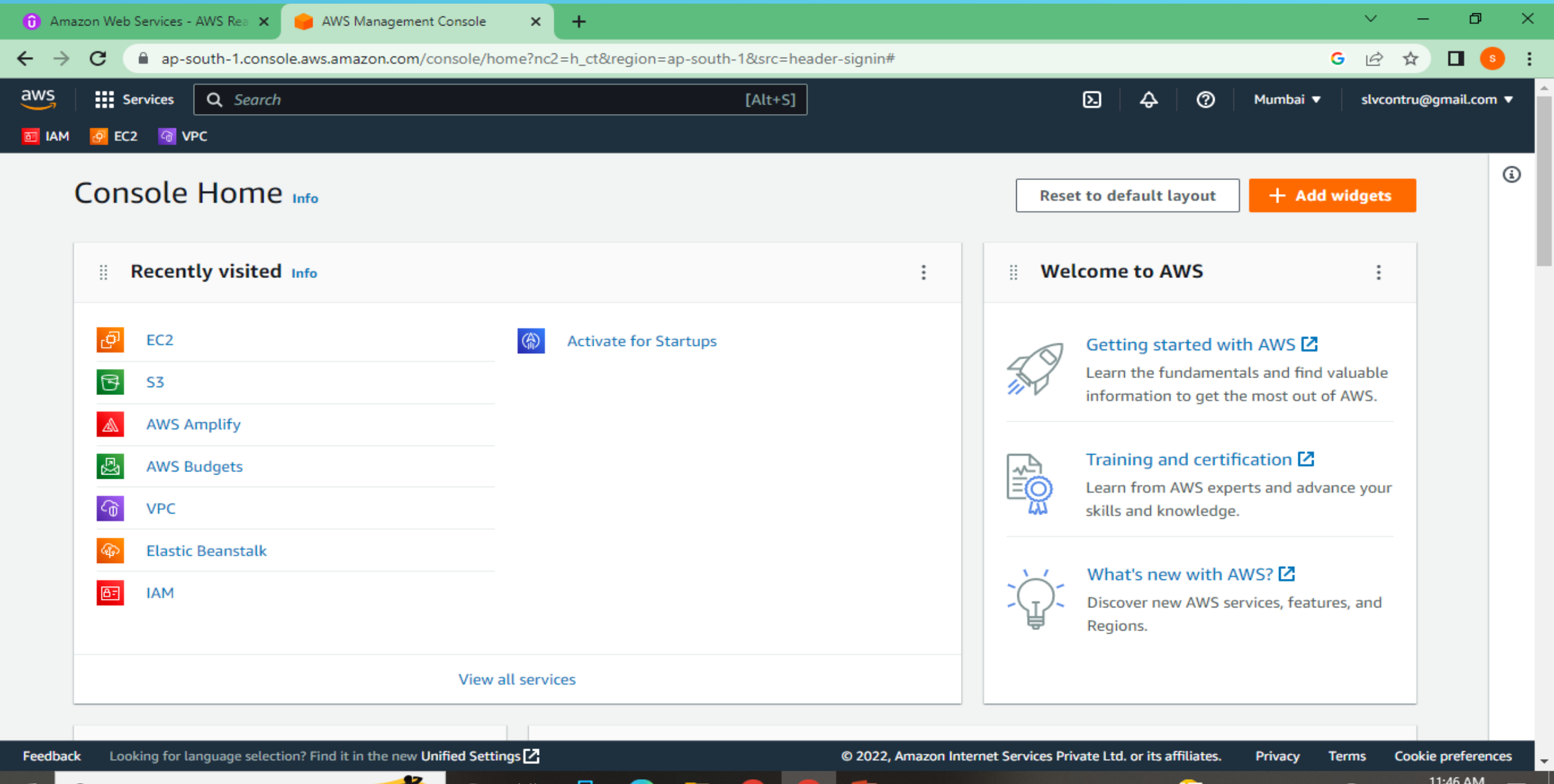
Next

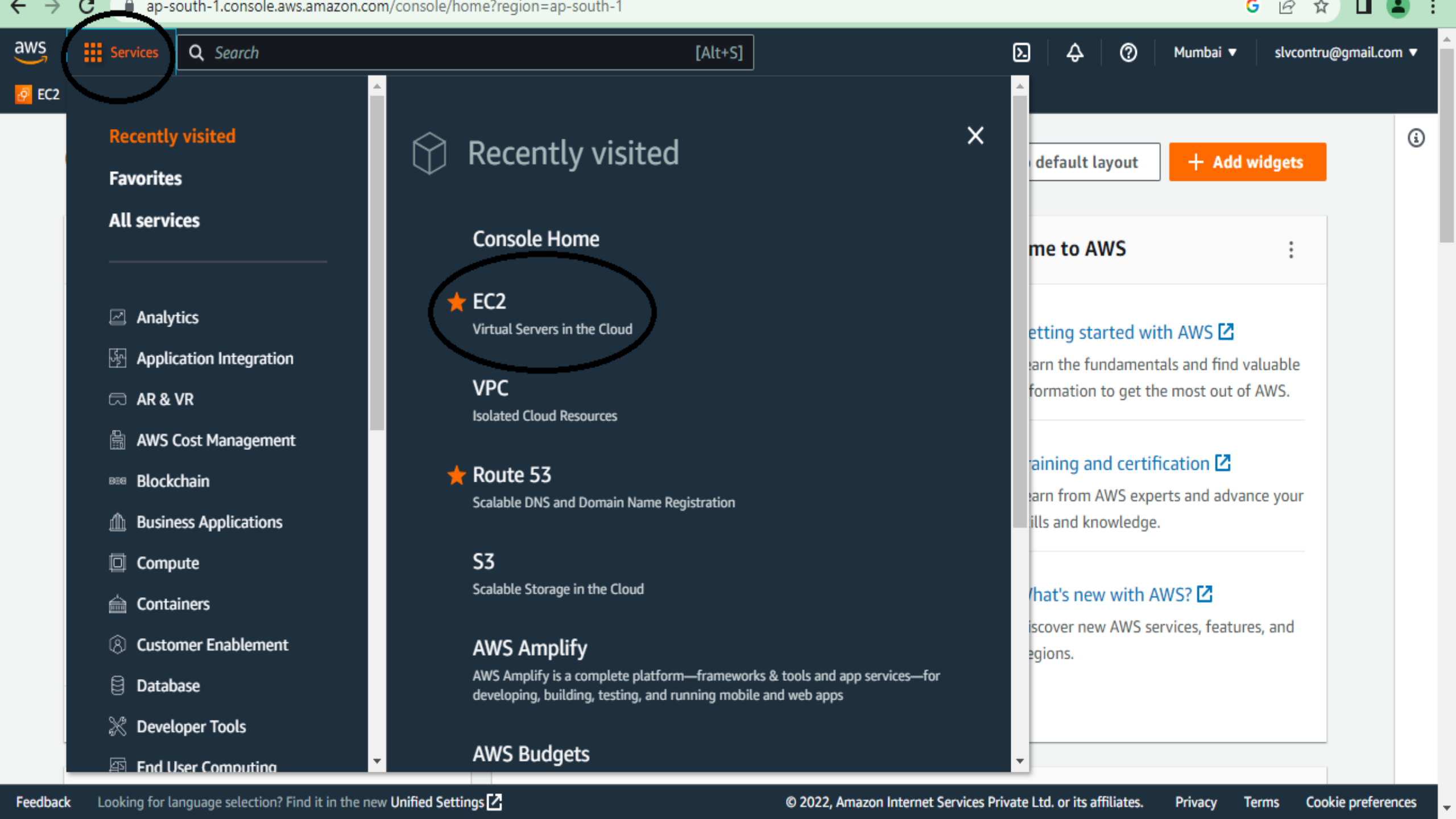
By continuing, you agree to the AWS Customer Agreement or other agreement for AWS services, and the Privacy Notice. This site uses essential cookies. See our Cookie Notice for more information.

New to AWS?

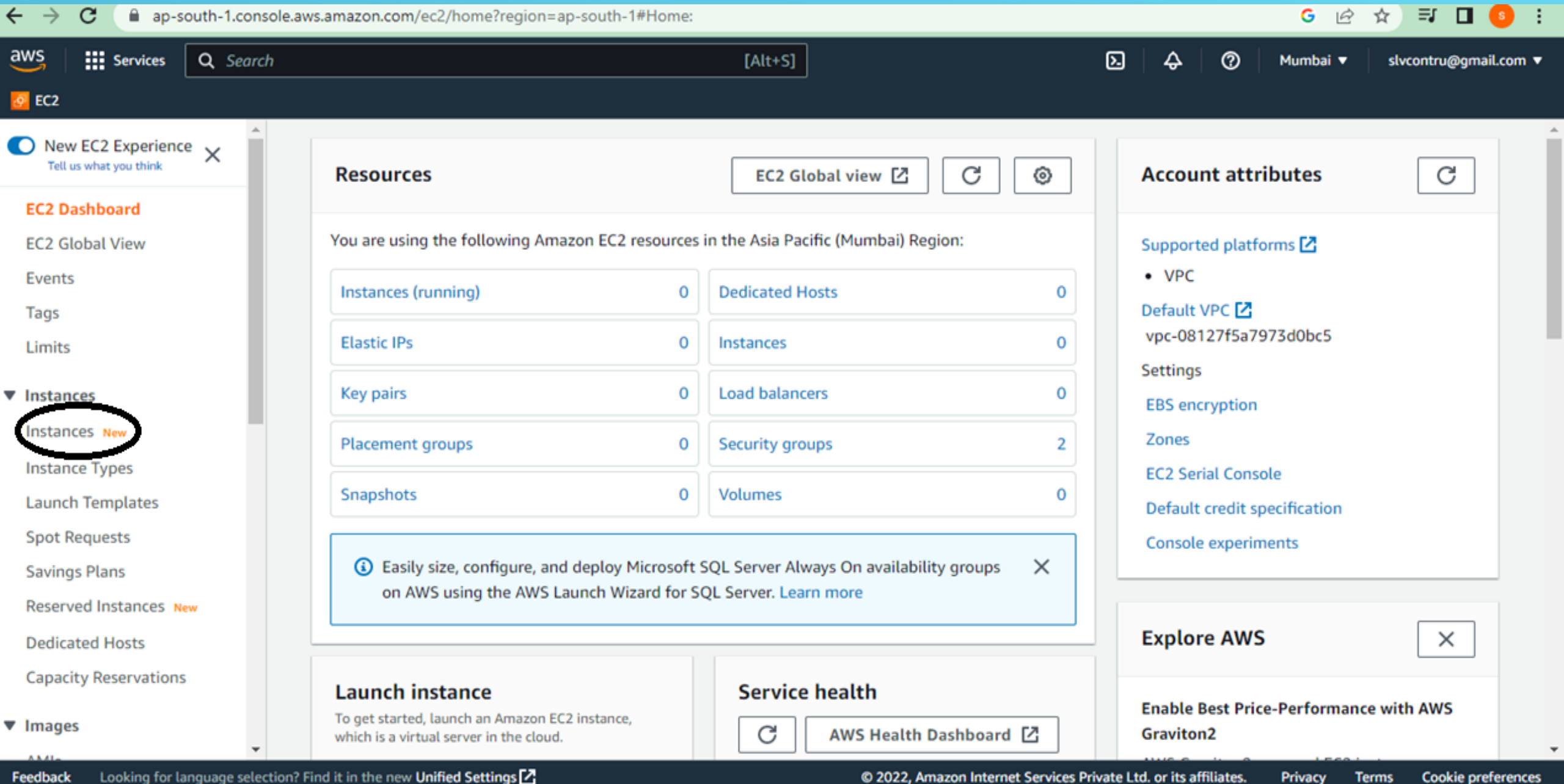
Create a new AWS account

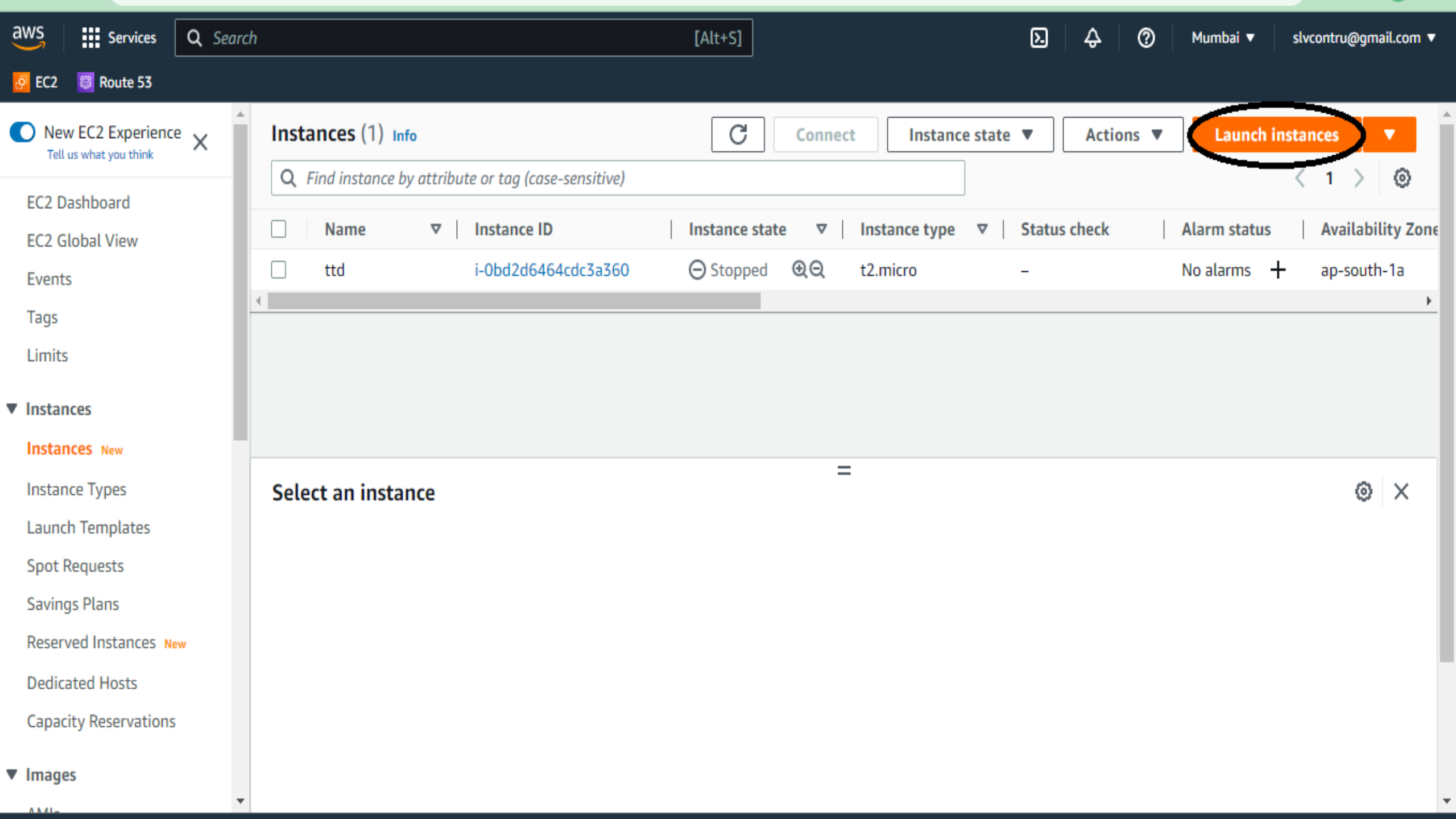
ONCE LOGIN YOU ALL VISIBLE TO SEE AWS LOGIN PAGE




ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1
aws
Services
Search
[Alt+S]
Mumbai
slvcontru@gmail.com
EC2
Recently visited
Favorites
All services
Analytics
Application Integration
AR & VR
AWS Cost Management
Blockchain
Business Applications
Compute
Containers
Customer Enablement
Database
Developer Tools
End User Computing
Recently visited
Console Home
EC2
Virtual Servers in the Cloud
VPC
Isolated Cloud Resources
Route 53
Scalable DNS and Domain Name Registration
S3
Scalable Storage in the Cloud
AWS Amplify
AWS Amplify is a complete platform—frameworks & tools and app services—for developing, building, testing, and running mobile and web apps
AWS Budgets
default layout
Add widgets
me to AWS
etting started with AWS
arn the fundamentals and find valuable
formation to get the most out of AWS.
aining and certification
arn from AWS experts and advance your
ills and knowledge.
/hat's new with AWS?
iscover new AWS services, features, and
egions.
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Internet Services Private Ltd. or its affiliates.
Privacy
Terms
Cookie preferences

LAUNCHING EC2 SYSTEM




aws
Services
Search
[Alt+S]
Mumbai
slvcontru@gmail.com
EC2
Route 53
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
ttd
i-0bd2d6464cdc3a360
Stopped
t2.micro
–
No alarms
ap-south-1a
Select an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

DemoEC2

Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

ami-074dc0a6f6c764218

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

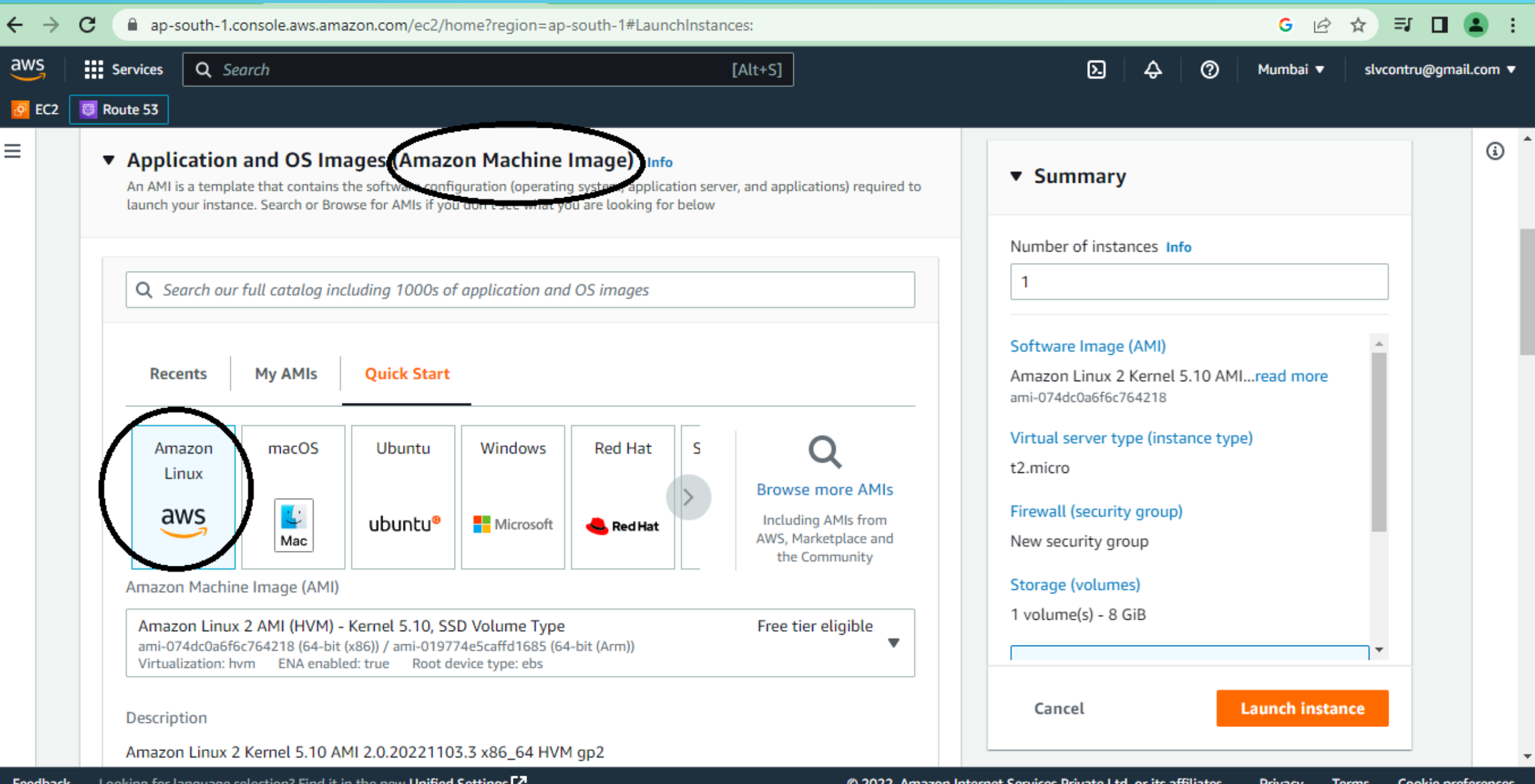
Storage (volumes)

1 volume(s) - 8 GiB

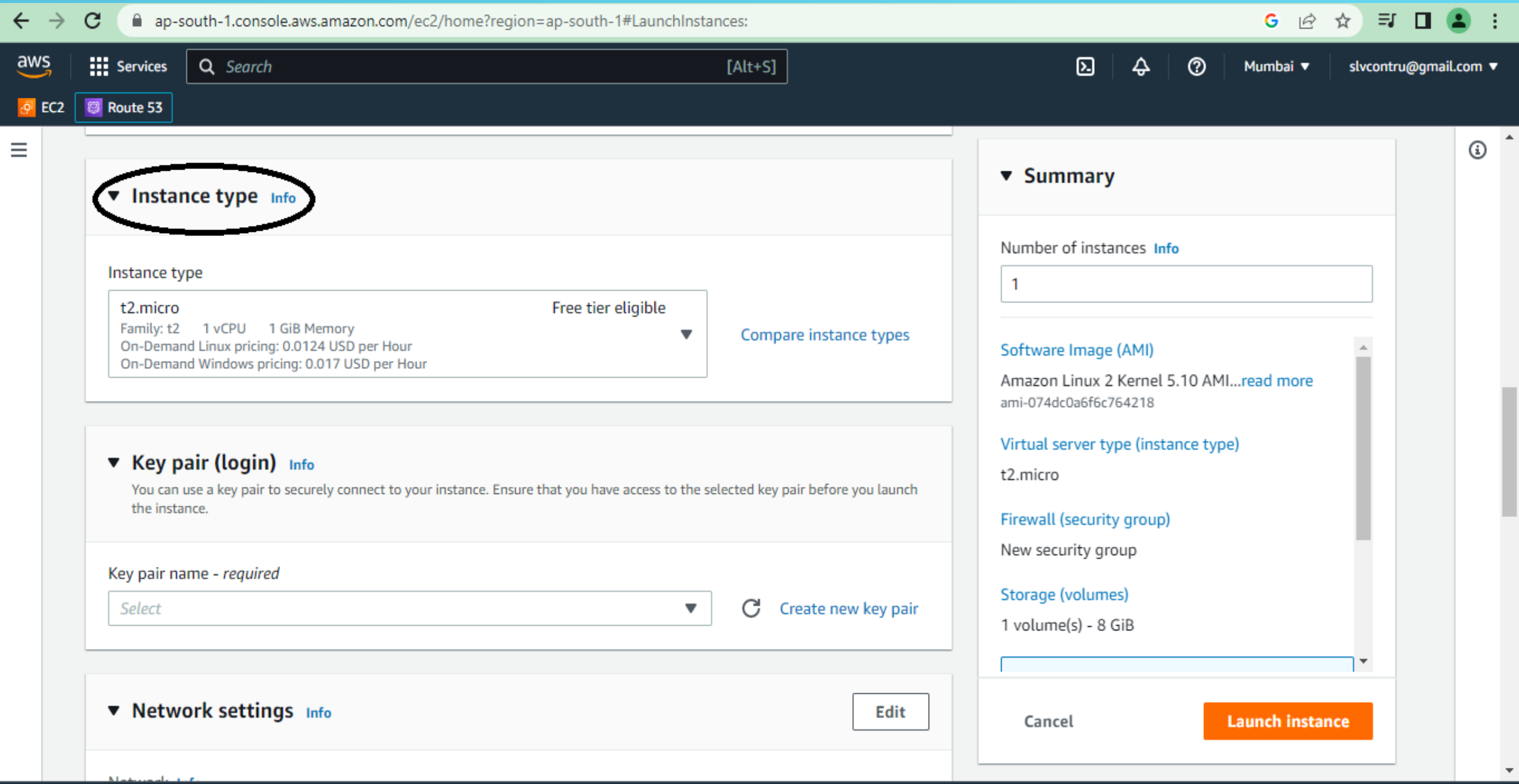
Cancel

Launch instance

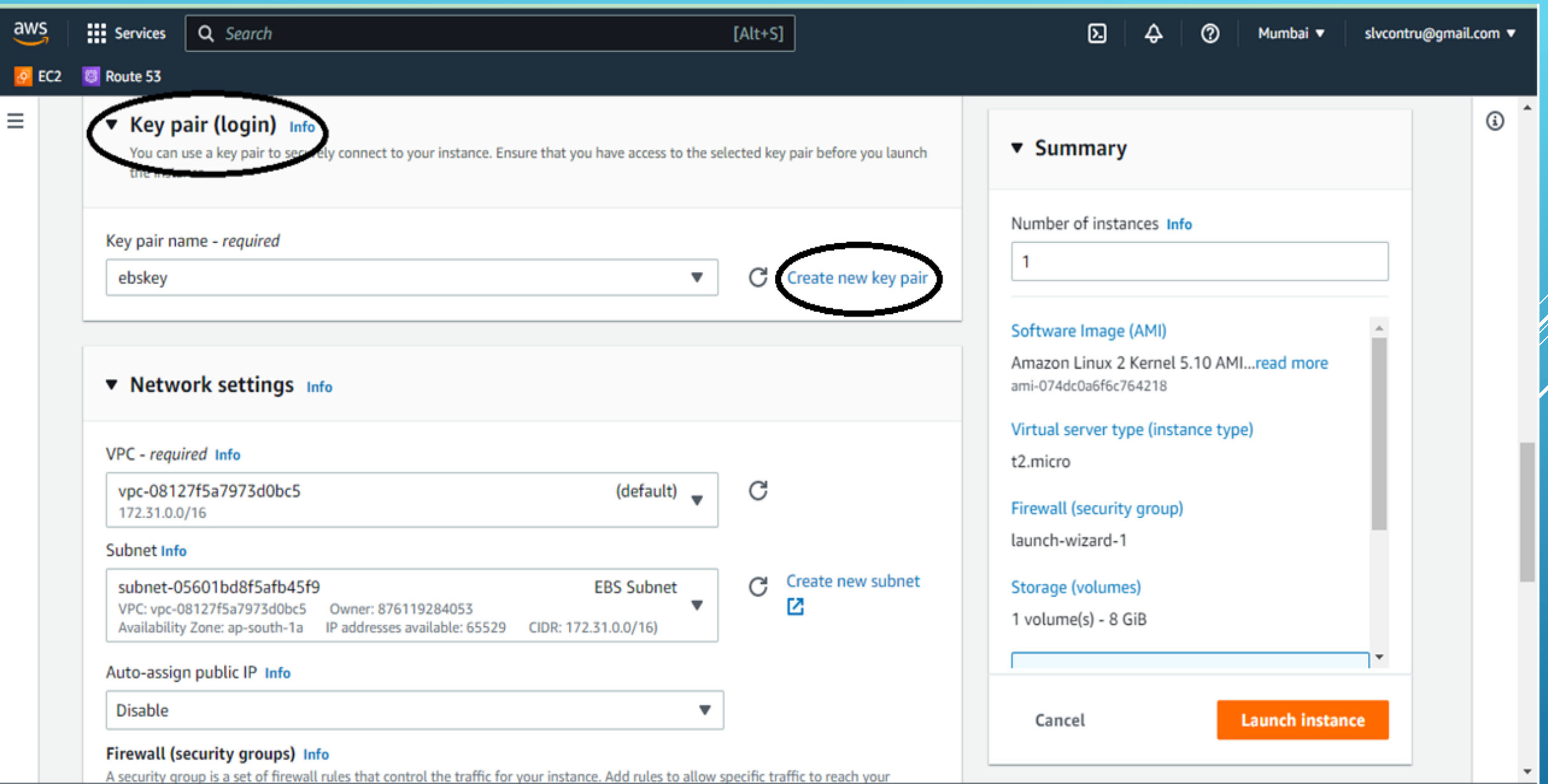
AMI IS SOFTWARE & APPLICATION PACKAGES/OS

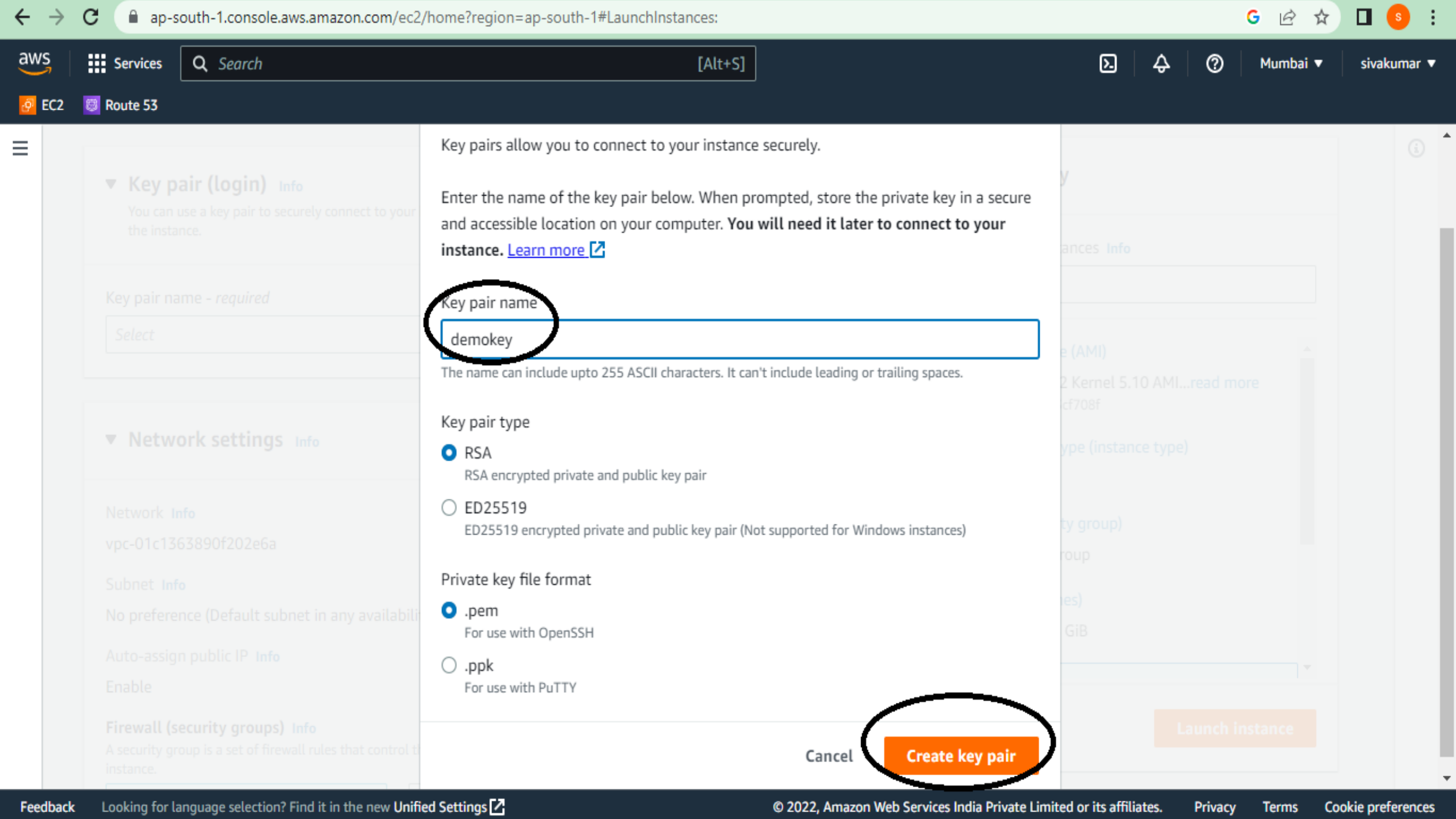


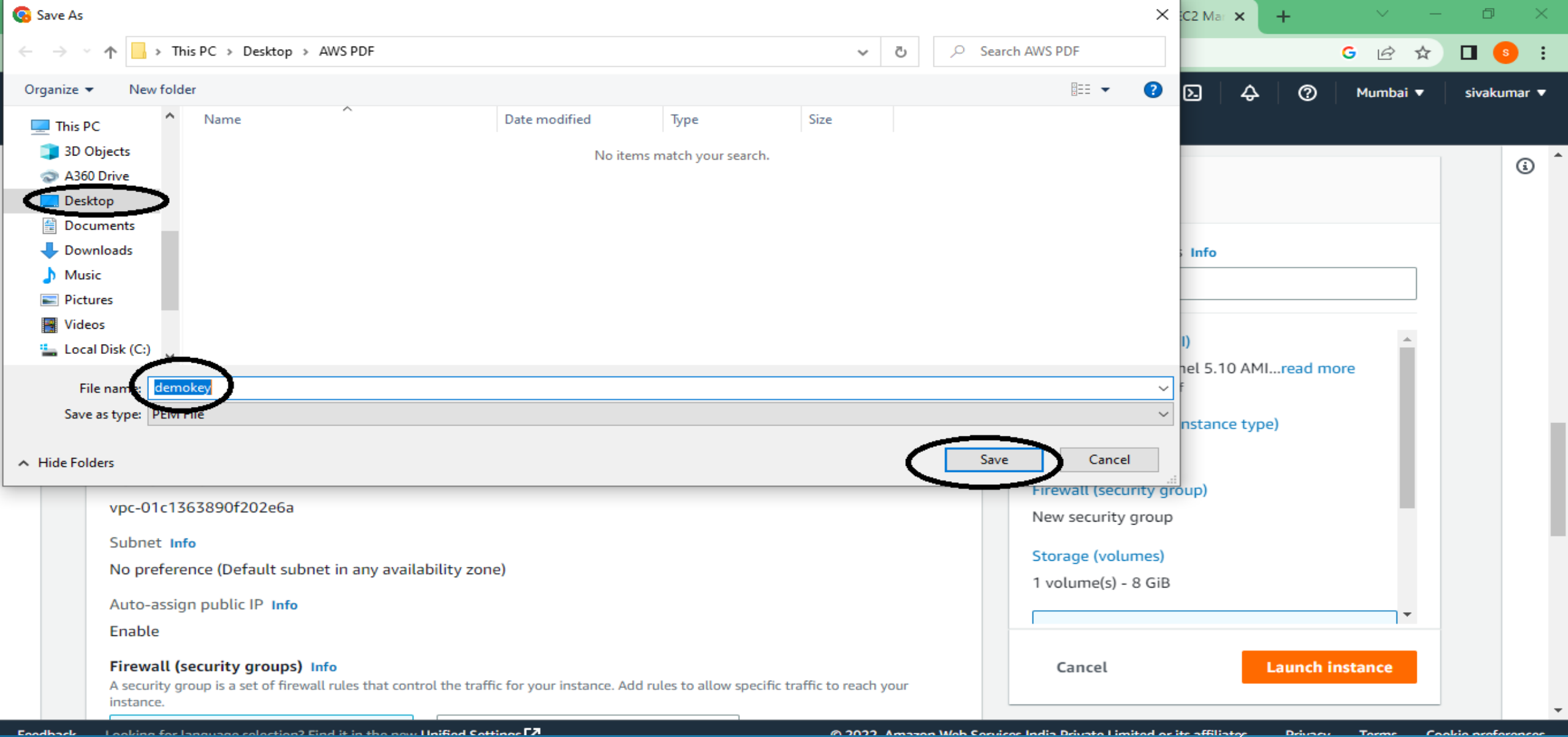
INSTANCE TYPE T2.MICRO IS THE HARDWARE



A KEY PAIR, CONSISTING OF A PUBLIC KEY AND A PRIVATE KEY, IS A SET OF SECURITY CREDENTIALS THAT YOU USE **TO PROVE YOUR IDENTITY WHEN CONNECTING TO AN AMAZON EC2 INSTANCE**




ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
aws
Services
Search
[Alt+S]
Mumbai
sivakumar
EC2
Route 53
Key pairs allow you to connect to your instance securely.
Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more
Key pair name
demokey
The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.
Key pair type
RSA
RSA encrypted private and public key pair
ED25519
ED25519 encrypted private and public key pair (Not supported for Windows instances)
Private key file format
.pem
For use with OpenSSH
.ppk
For use with PuTTY
Cancel
Create key pair
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences



ONCE YOU CREATE KEY PAIR PLEASE SAVE IT IN DESKTOP

Network settings Info

VPC - *required* Info

vpc-08127f5a7973d0bc5 (default)
172.31.0.0/16

Subnet Info

subnet-05601bd8f5afb45f9 EBS Subnet
VPC: vpc-08127f5a7973d0bc5 Owner: 876119284053
Availability Zone: ap-south-1a IP addresses available: 65529 CIDR: 172.31.0.0/16)

Create new subnet

Auto-assign public IP Info

Disable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

- ○ Create security group
- ◉ Select existing security group

Common security groups Info

Select security groups

Compare security group rules

launch-wizard-1 sg-0c854ab1281aaa7ea
VPC: vpc-08127f5a7973d0bc5

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more
ami-074dc0a6f6c764218

Virtual server type (instance type)

t2.micro

Firewall (security group)

launch-wizard-1

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

© 2022, Amazon Internet Services Private Ltd. or its affiliates.

VPC: vpc-08127f5a7973d0bc5

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▶ Advanced network configuration

▼ Configure storage Info

Advanced

1x 8 GiB gp2 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

0 x File systems Edit

▶ Advanced details Info

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

ami-074dc0a6f6c764218

Virtual server type (instance type)

t2.micro

Firewall (security group)

launch-wizard-1

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

Success

Successfully initiated launch of instance (i-0414d65f027227a24)

▶ Launch log

Next Steps

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

Create billing alerts

Connect to your instance

Once your instance is running, log into it from your local computer.

Connect to instance

Learn more

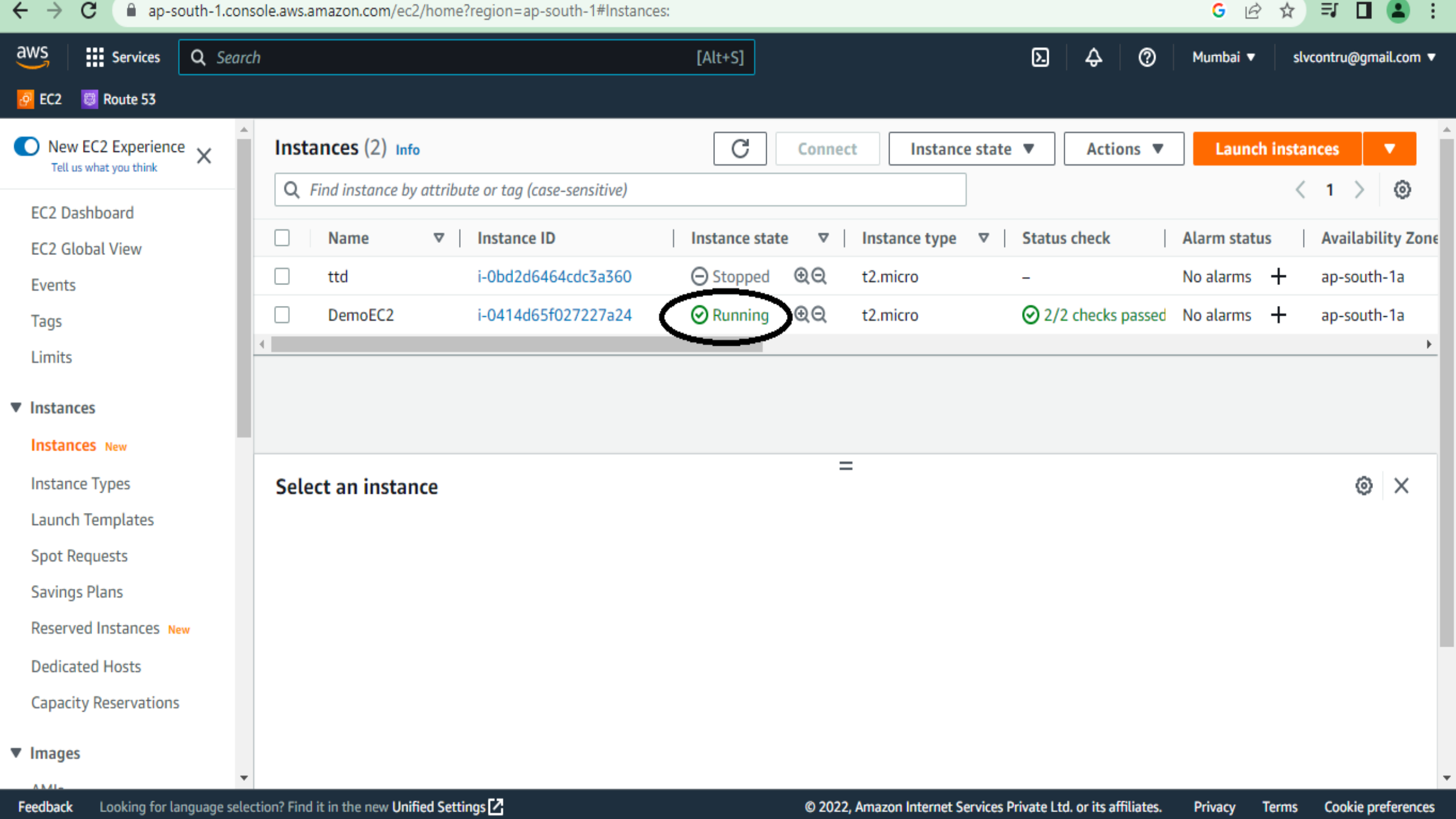
Connect an RDS database New

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

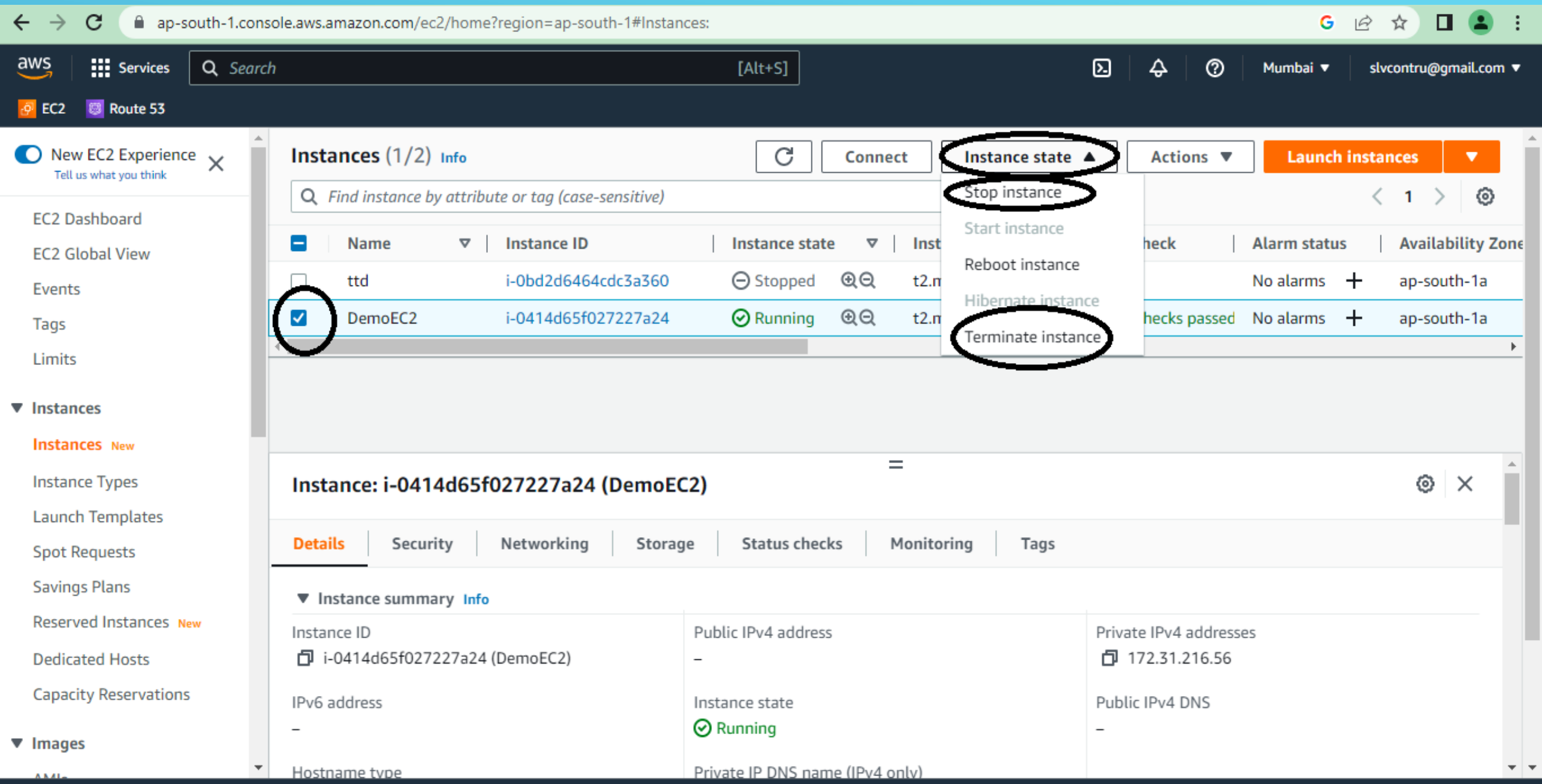
Connect an RDS database

Create a new RDS database | Learn more

View all instances


ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:
aws
Services
Search
[Alt+S]
Mumbai
slvcontru@gmail.com
EC2
Route 53
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
ttd
i-0bd2d6464cdc3a360
Stopped
t2.micro
–
No alarms
ap-south-1a
DemoEC2
i-0414d65f027227a24
Running
t2.micro
2/2 checks passed
No alarms
ap-south-1a
Select an instance
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Internet Services Private Ltd. or its affiliates.
Privacy
Terms
Cookie preferences

STOP OR TERMINATE EC2 INSTANCE:



EC2 INTERVIEW QUESTIONS:

- What is Amazon EC2?
- What is the difference between stopping and terminating an EC2 instance?
- What is the benefit of Amazon EC2?

THANK YOU