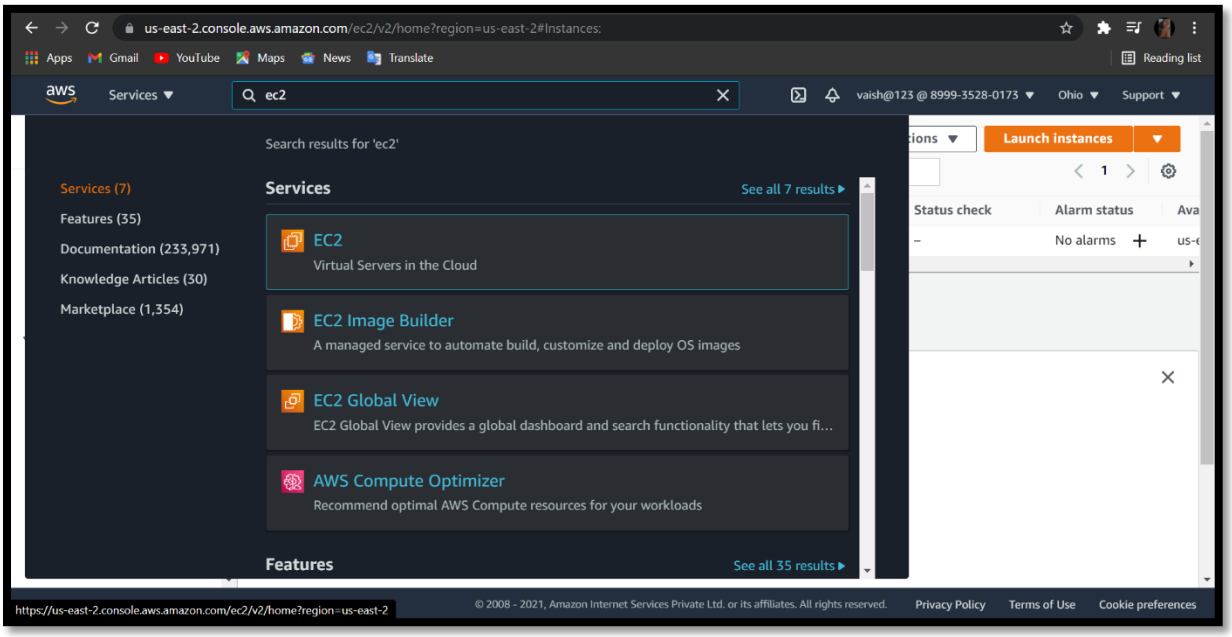
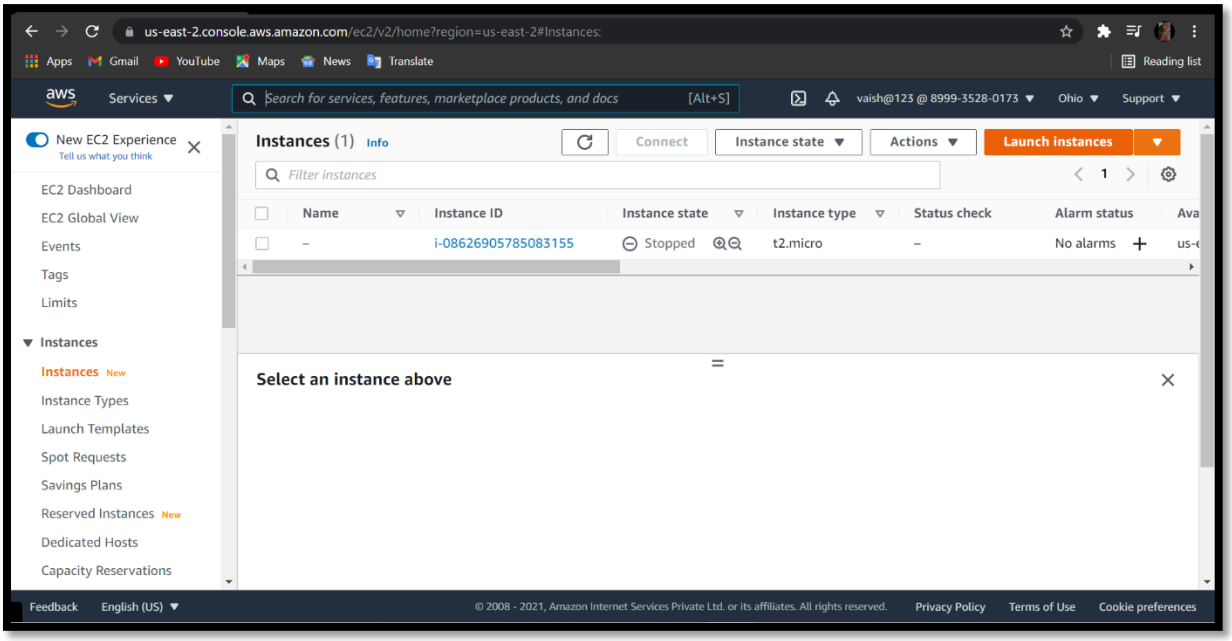
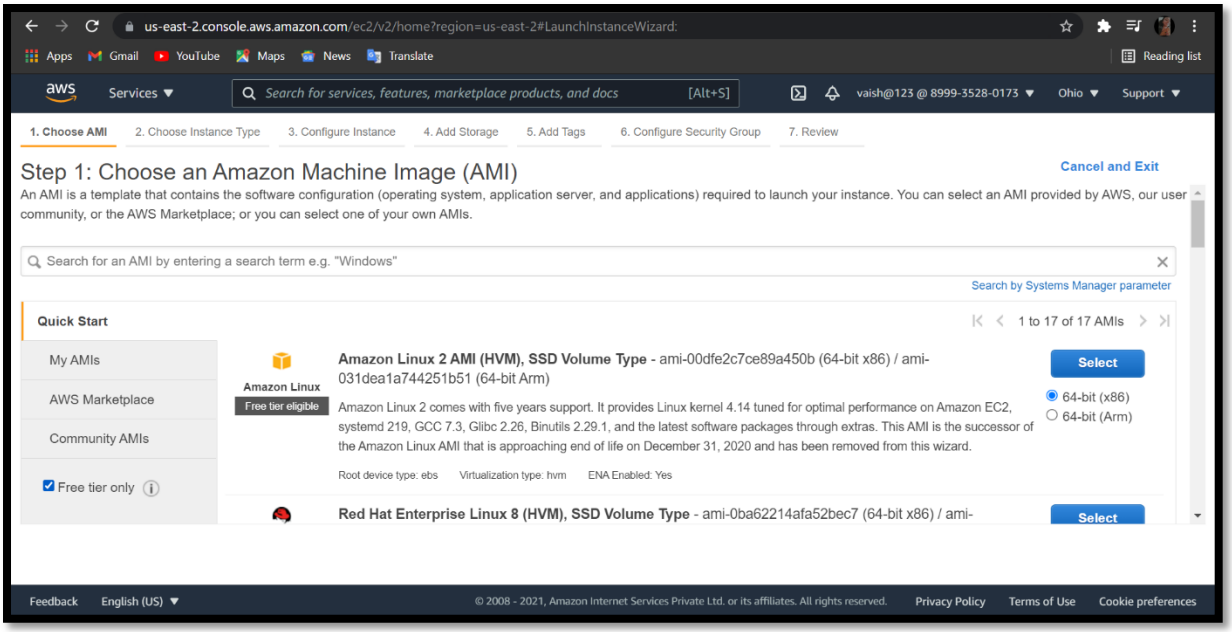
ASSIGNMENT 2 (WORKING WITH EC2 INSTANCE)

NAME : VAISHNAVI KARALE






us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 1: Choose an Amazon Machine Image (AMI)
Cancel and Exit
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.
Search for an AMI by entering a search term e.g. "Windows"
Search by Systems Manager parameter
Quick Start
1 to 17 of 17 AMIs
My AMIs
AWS Marketplace
Community AMIs
Free tier only
Amazon Linux
Free tier eligible
Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-00dfe2c7ce89a450b (64-bit x86) / ami-031dea1a744251b51 (64-bit Arm)
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 approaching end of life on December 31, 2020 and has been removed from this wizard.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
Select
64-bit (x86)
64-bit (Arm)
Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-0ba62214afa52bec7 (64-bit x86) / ami-
Select
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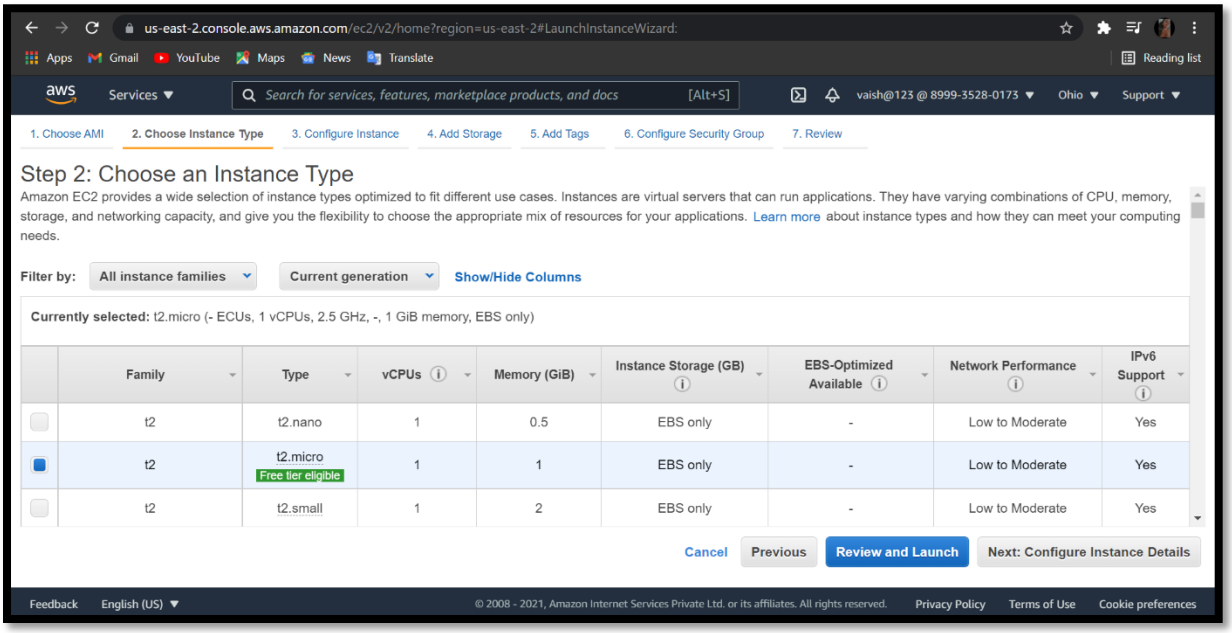
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations 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
t2 t2.nano 1 0.5 EBS only - Low to Moderate Yes
t2 t2.micro Free tier eligible 1 1 EBS only - Low to Moderate Yes
t2 t2.small 1 2 EBS only - Low to Moderate Yes
Cancel Previous Review and Launch Next: Configure Instance Details
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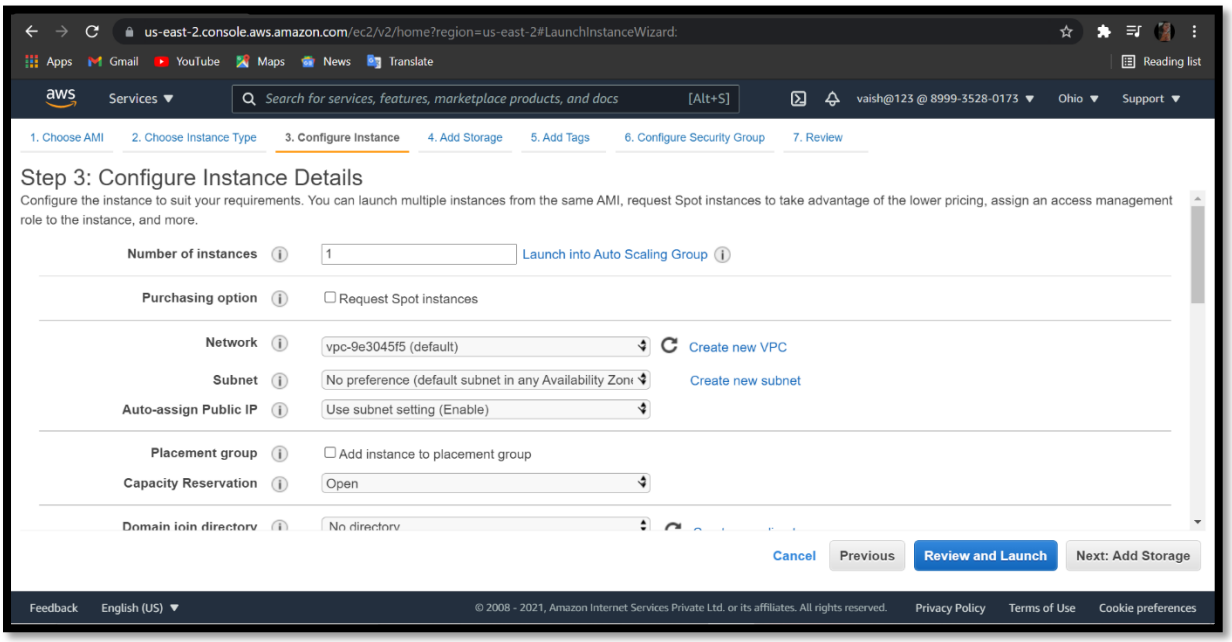
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 3: Configure Instance Details
Configure the instance to suit your requirements. You can launch multiple instances from 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-9e3045f5 (default) Create new VPC
Subnet No preference (default subnet in any Availability Zone Create new subnet
Auto-assign Public IP Use subnet setting (Enable)
Placement group Add instance to placement group
Capacity Reservation Open
Domain join directory No directory
Cancel Previous Review and Launch Next: Add Storage
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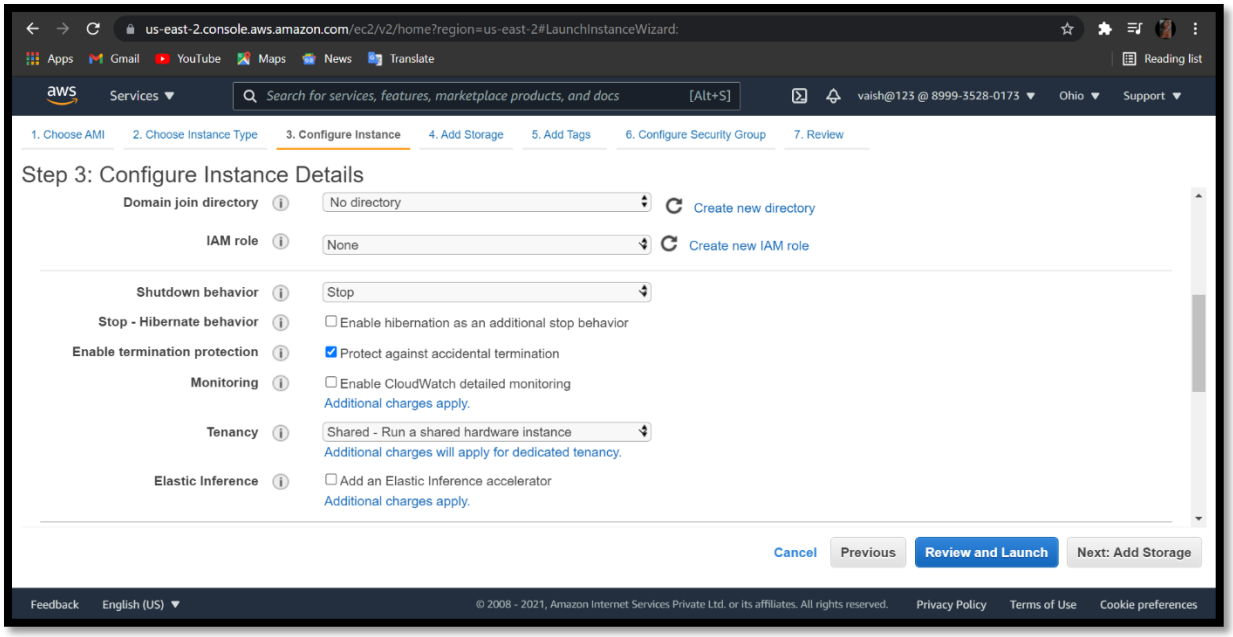
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 3: Configure Instance Details
Domain join directory No directory Create new directory
IAM role None Create new IAM role
Shutdown behavior Stop
Stop - Hibernate behavior Enable hibernation as an additional stop behavior
Enable termination protection Protect against accidental termination
Monitoring Enable CloudWatch detailed monitoring
Additional charges apply.
Tenancy Shared - Run a shared hardware instance
Additional charges will apply for dedicated tenancy.
Elastic Inference Add an Elastic Inference accelerator
Additional charges apply.
Cancel Previous Review and Launch Next: Add Storage
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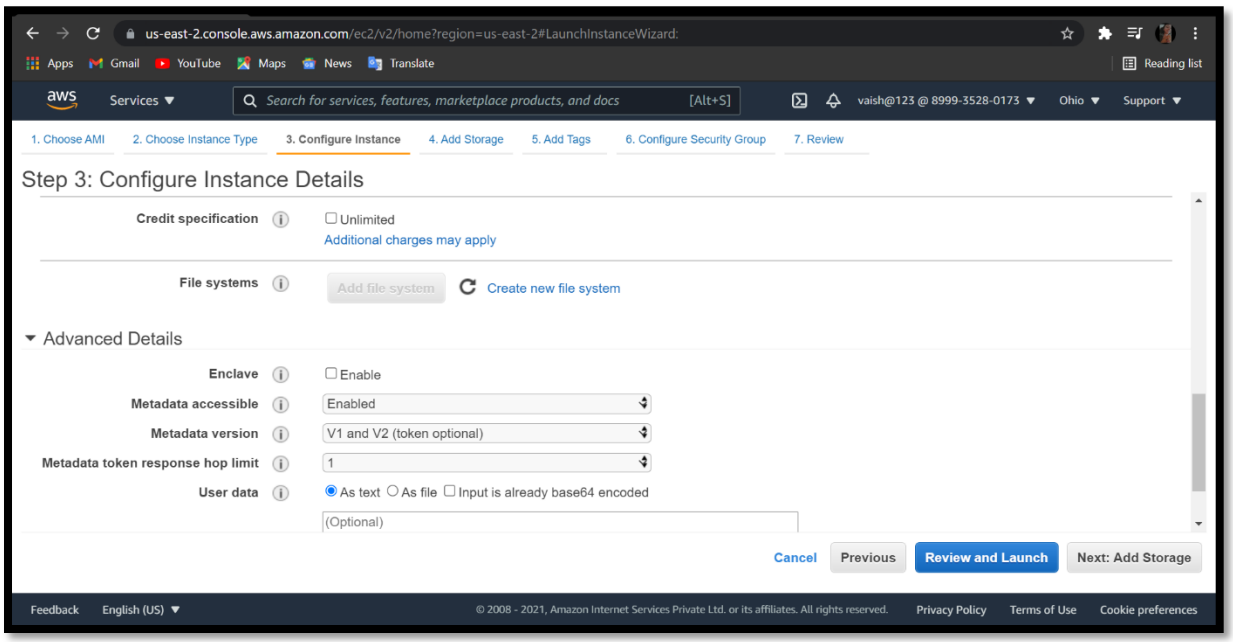
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 3: Configure Instance Details
Credit specification Unlimited
Additional charges may apply
File systems Add file system Create new file system
Advanced Details
Enclave Enable
Metadata accessible Enabled
Metadata version V1 and V2 (token optional)
Metadata token response hop limit 1
User data As text As file Input is already base64 encoded
(Optional)
Cancel Previous Review and Launch Next: Add Storage
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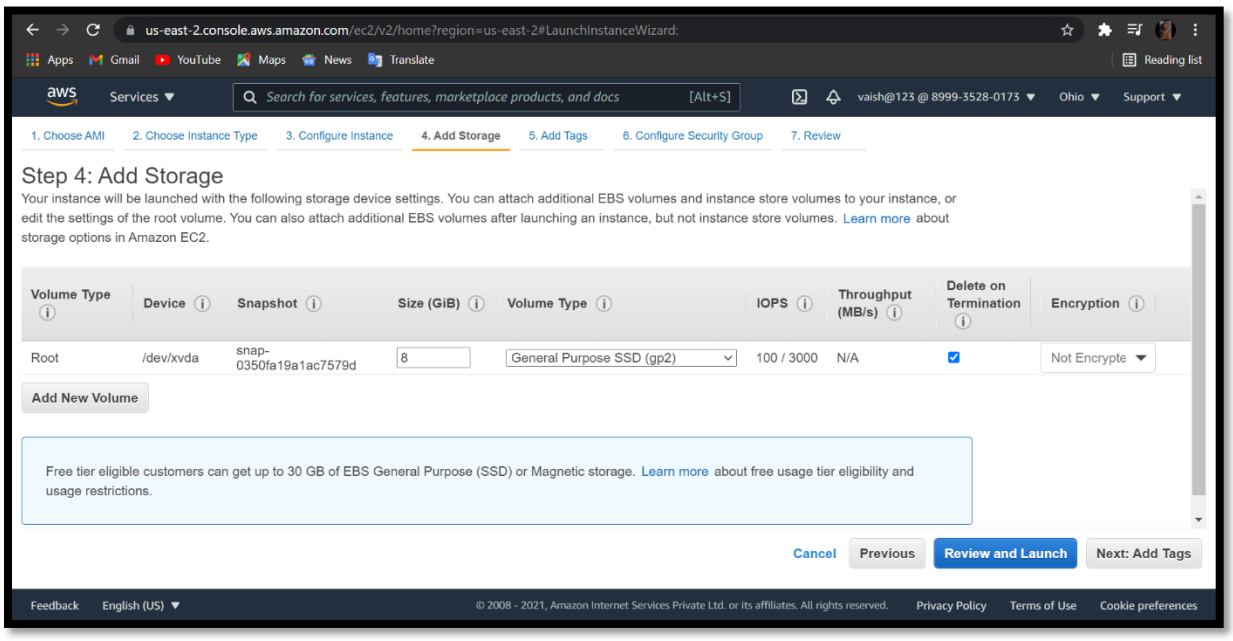
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 4: Add Storage
Your instance will be launched with the following storage device settings. You can attach additional EBS 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-0350fa19a1ac7579d 8 General Purpose SSD (gp2) 100 / 3000 N/A Not Encrypte
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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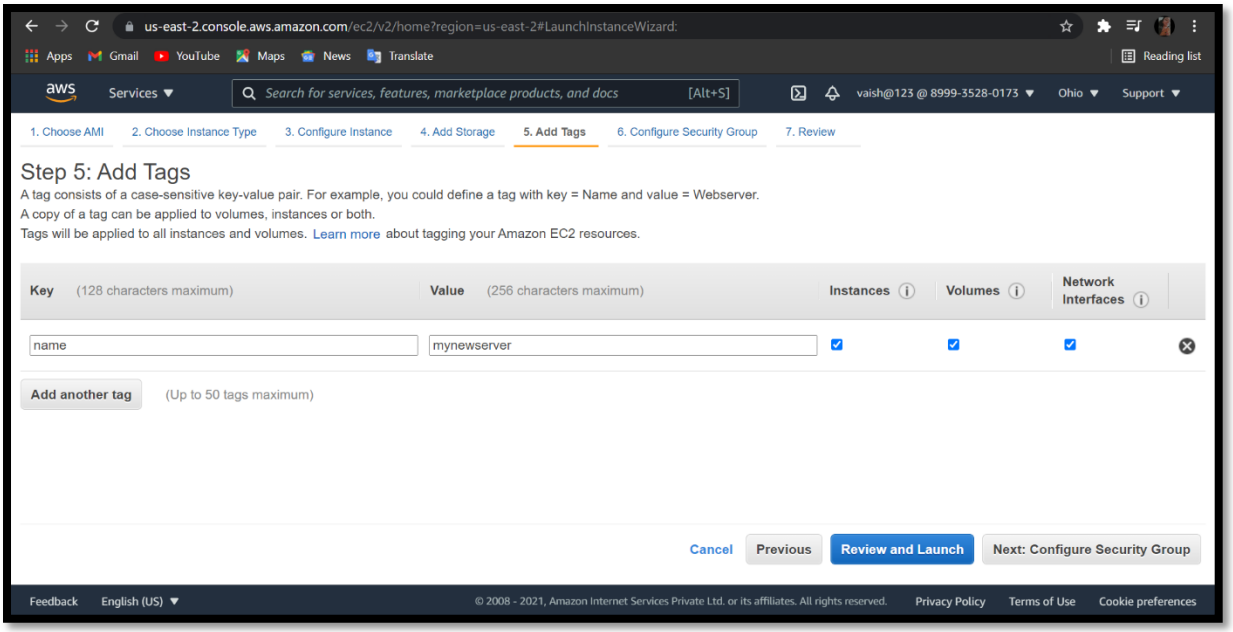
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 5: Add Tags
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and 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
Network Interfaces
name
mynewserver
Add another tag
(Up to 50 tags maximum)
Cancel
Previous
Review and Launch
Next: Configure Security Group
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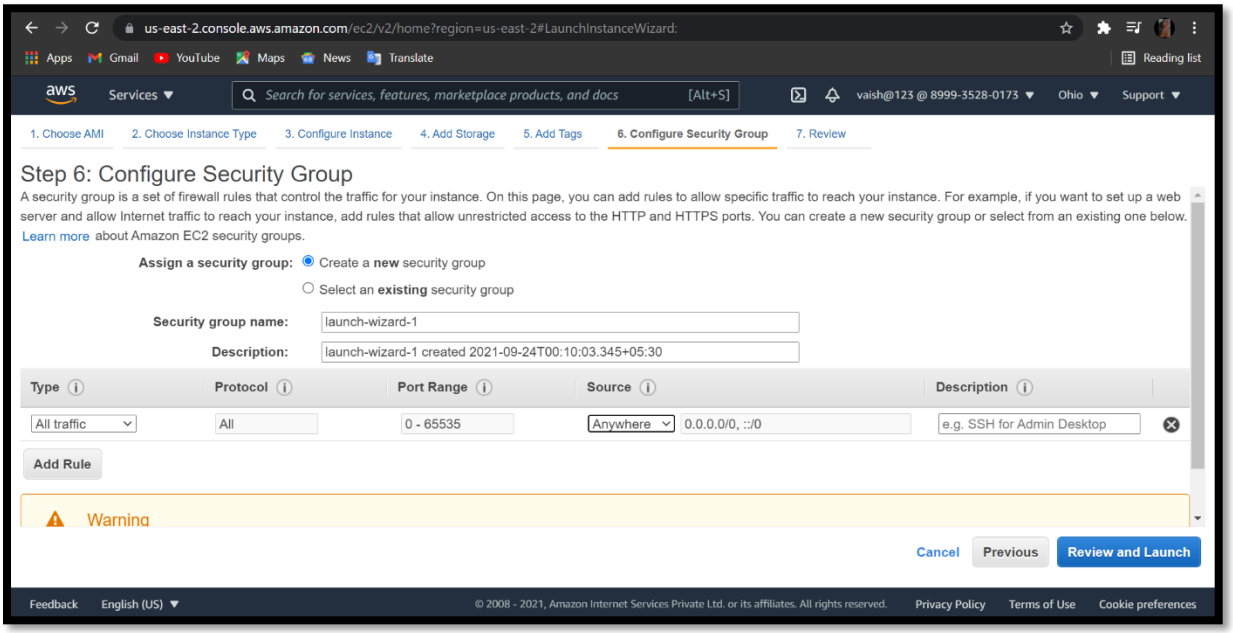
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 6: Configure Security Group
A security group is a set of firewall rules that control the traffic for your instance. On 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-1
Description: launch-wizard-1 created 2021-09-24T00:10:03.345+05:30
Type
Protocol
Port Range
Source
Description
All traffic
All
0 - 65535
Anywhere
0.0.0.0/0, ::/0
e.g. SSH for Admin Desktop
Add Rule
Warning
Cancel
Previous
Review and Launch
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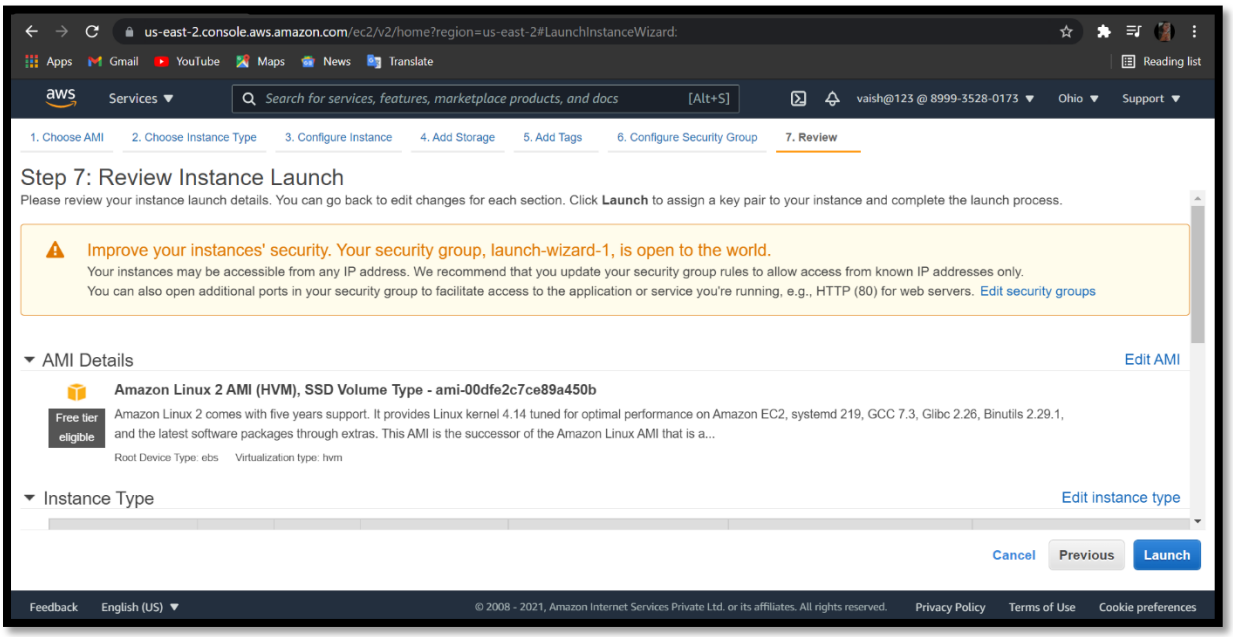
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 7: Review Instance Launch
Please review your instance launch details. You can go back to edit changes for each section. 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-00dfe2c7ce89a450b
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
Cancel
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Launch
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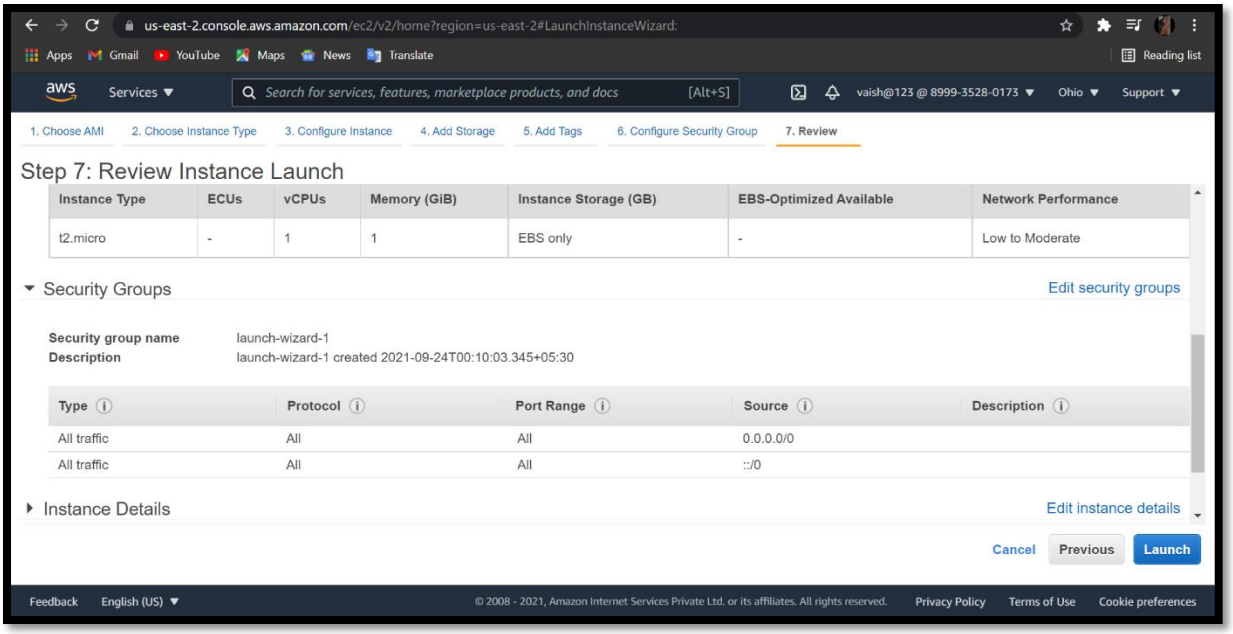
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 7: Review Instance Launch
Instance Type ECUs vCPUs Memory (GiB) Instance Storage (GB) EBS-Optimized Available Network 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 2021-09-24T00:10:03.345+05:30
Type Protocol Port Range Source Description
All traffic All All 0.0.0.0/0
All traffic All All ::/0
Instance Details Edit instance details
Cancel Previous Launch
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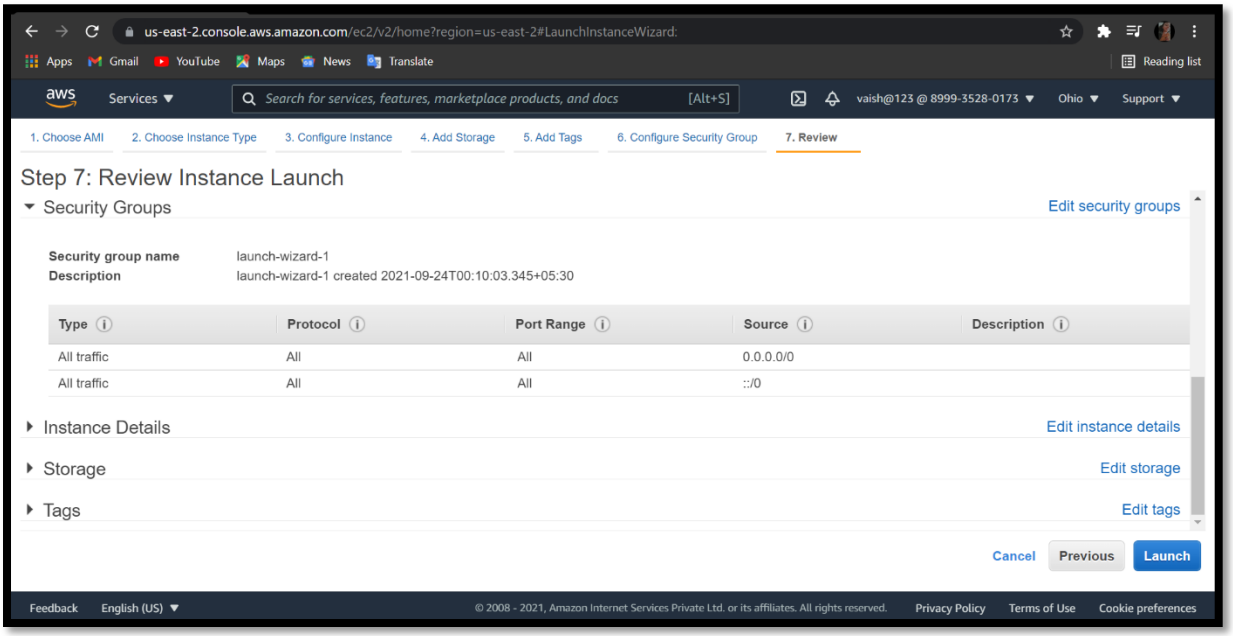
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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review
Step 7: Review Instance Launch
Security Groups Edit security groups
Security group name launch-wizard-1
Description launch-wizard-1 created 2021-09-24T00:10:03.345+05:30
Type Protocol Port Range Source Description
All traffic All All 0.0.0.0/0
All traffic All All ::/0
Instance Details Edit instance details
Storage Edit storage
Tags Edit tags
Cancel Previous Launch
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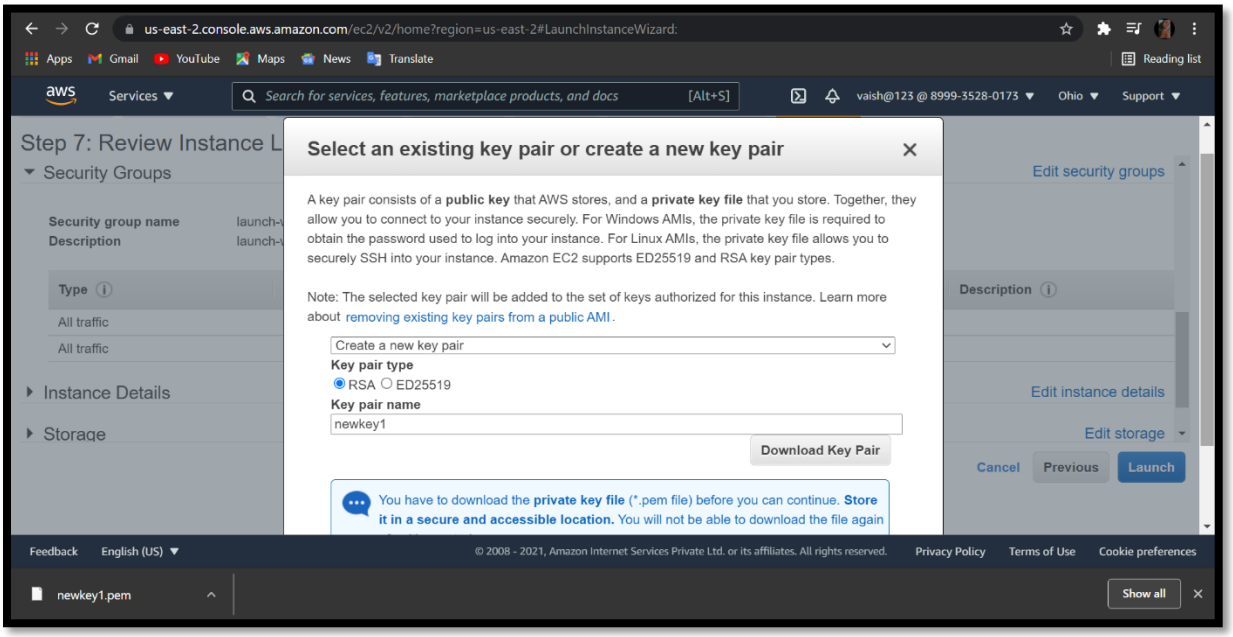
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Step 7: Review Instance L
Security Groups
Edit security groups
Security group name
Description
Type
All traffic
All traffic
Description
Instance Details
Edit instance details
Storage
Edit storage
Cancel Previous Launch
Select an existing key pair or 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. Amazon EC2 supports ED25519 and RSA key pair types.
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 type
RSA ED25519
Key pair name
newkey1
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
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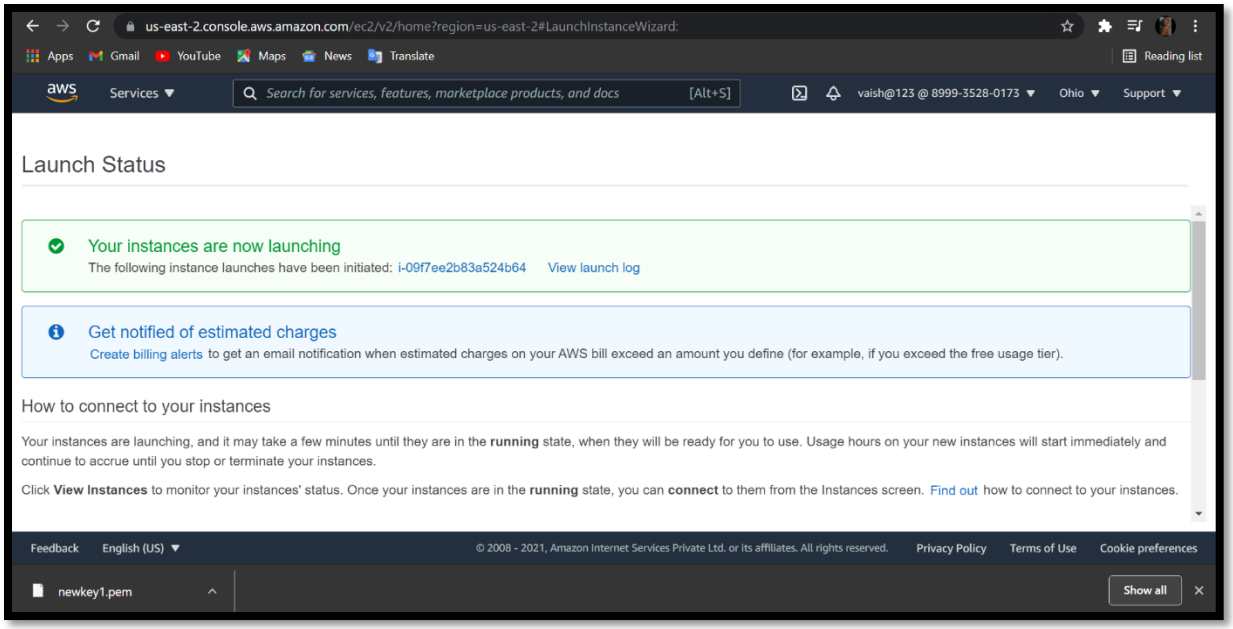
newkey1.pem
Show all


us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Launch Status
Your instances are now launching
The following instance launches have been initiated: i-09f7ee2b83a524b64 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.
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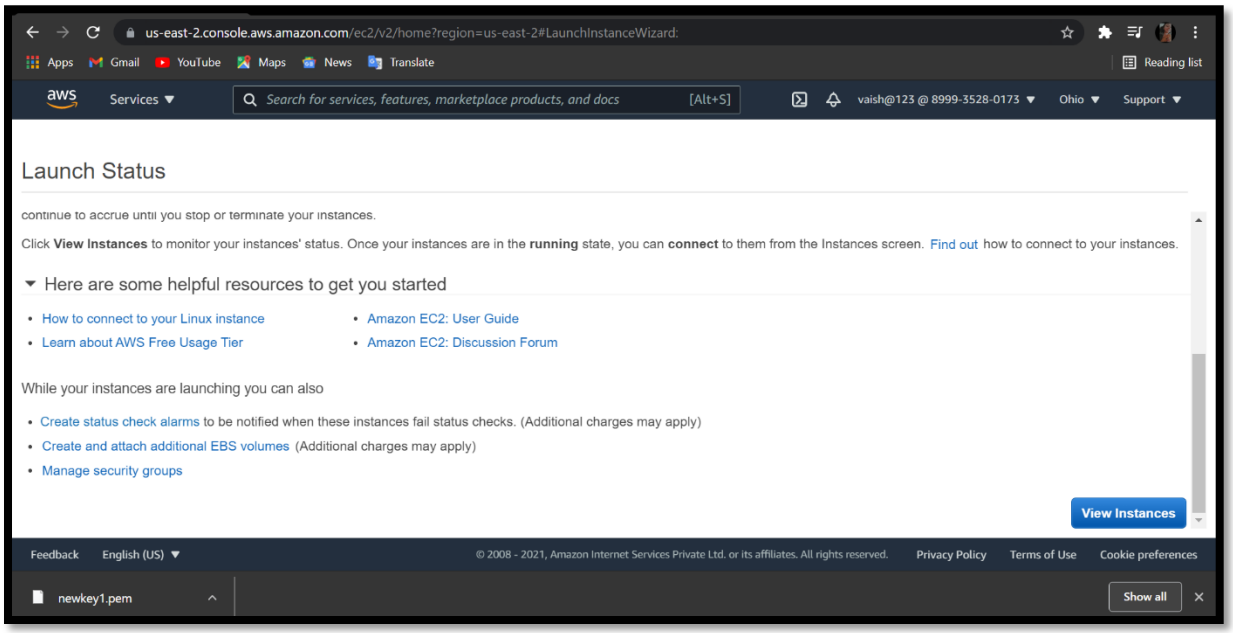
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Launch Status
continue to accrue until you stop or terminate your instances.
Click View Instances to monitor your instances' status. Once your instances are in the running state, you can connect to them from the Instances 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
While your instances are launching you can also
Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
Create and attach additional EBS volumes (Additional charges may apply)
Manage security groups
View Instances
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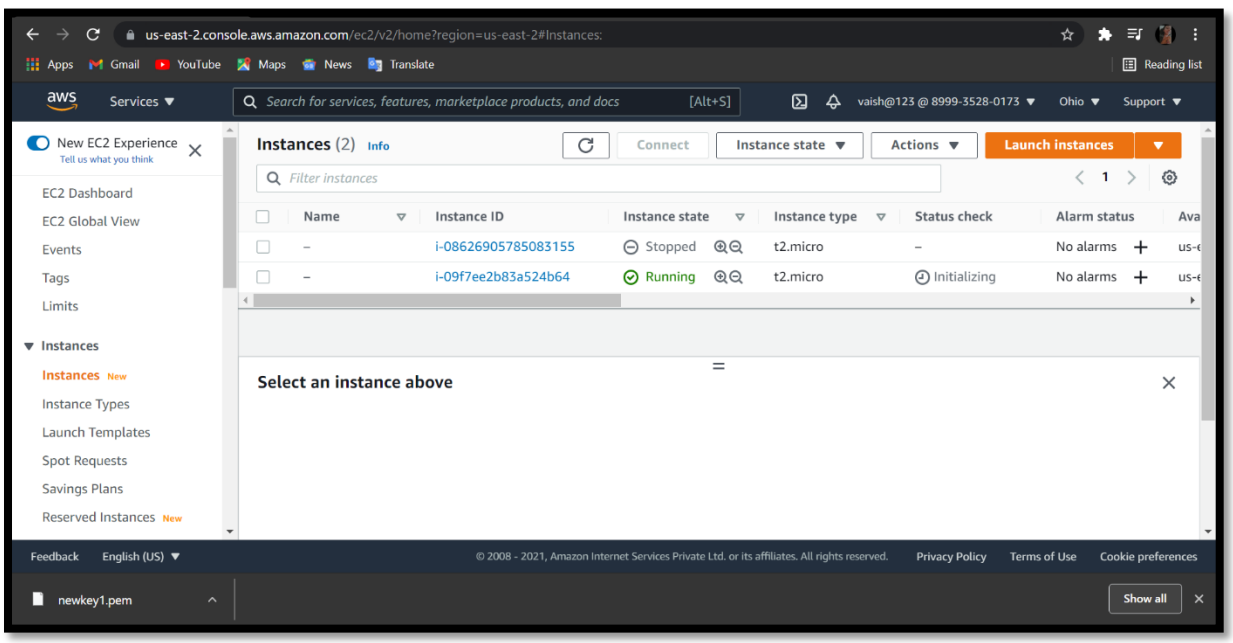
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Filter instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
i-08626905785083155 Stopped t2.micro No alarms
i-09f7ee2b83a524b64 Running t2.micro Initializing No alarms
Select an instance above
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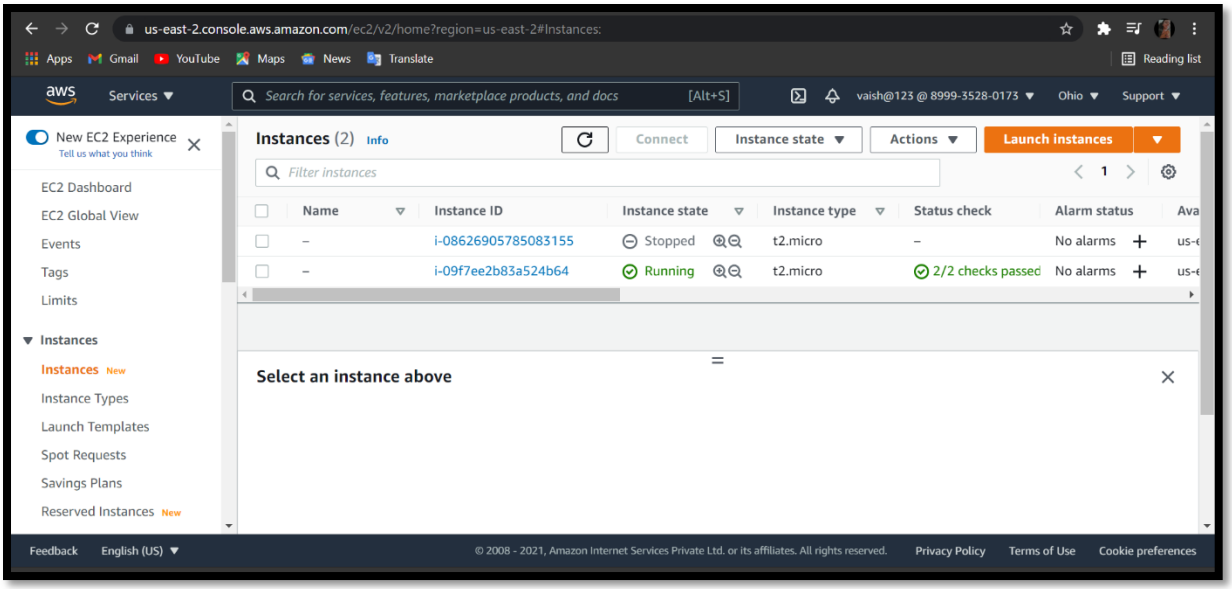
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New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Filter instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
i-08626905785083155
Stopped
t2.micro
No alarms
i-09f7ee2b83a524b64
Running
t2.micro
2/2 checks passed
No alarms
Select an instance above
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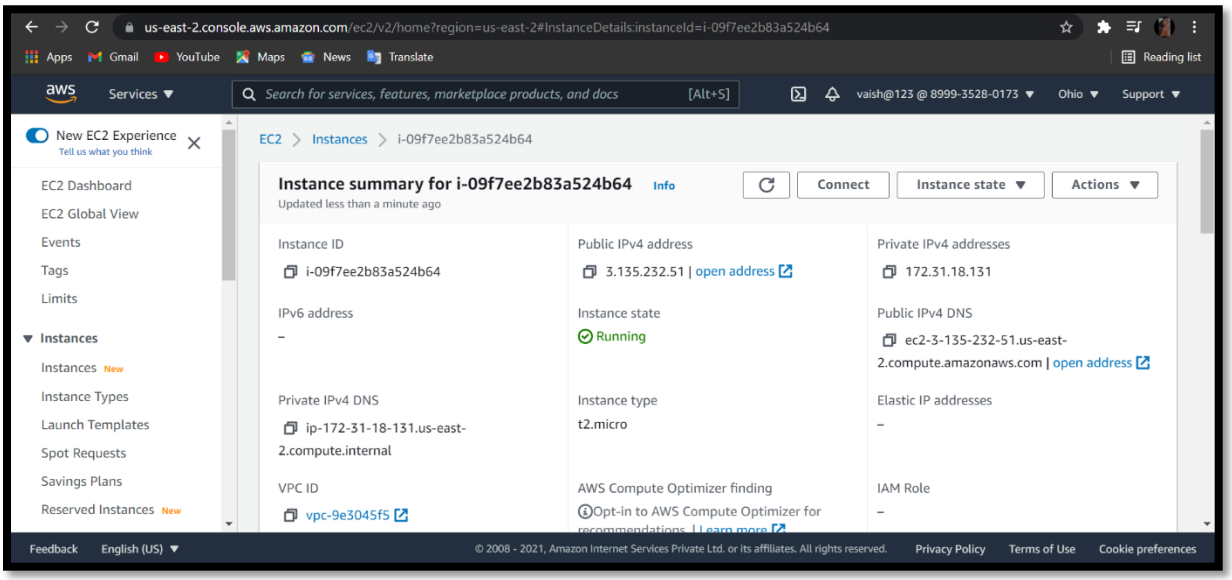
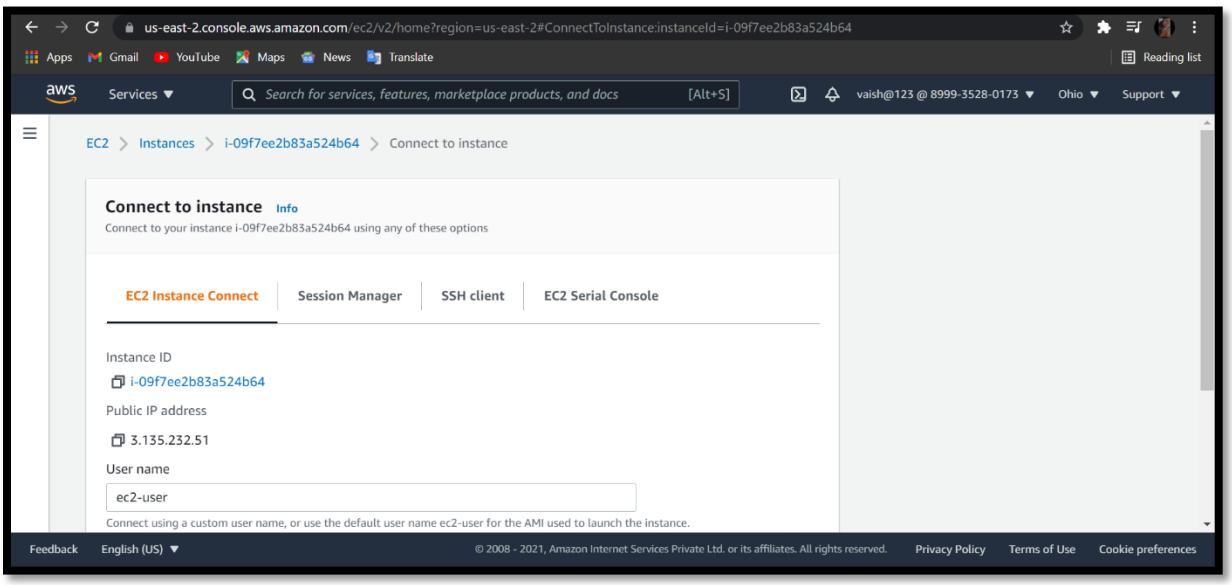
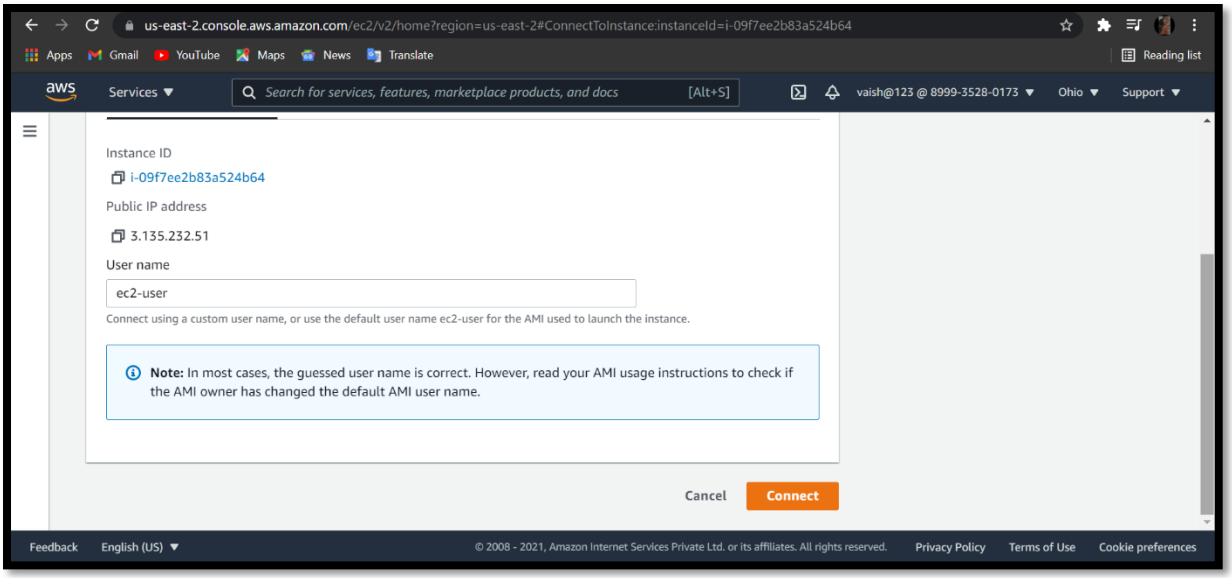

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#InstanceDetails:instanceId=i-09f7ee2b83a524b64
EC2 > Instances > i-09f7ee2b83a524b64
Instance summary for i-09f7ee2b83a524b64 Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-09f7ee2b83a524b64
Public IPv4 address
3.135.232.51 | open address
Private IPv4 addresses
172.31.18.131
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-3-135-232-51.us-east-2.compute.amazonaws.com | open address
Private IPv4 DNS
ip-172-31-18-131.us-east-2.compute.internal
Instance type
t2.micro
Elastic IP addresses
–
VPC ID
vpc-9e3045f5
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for
IAM Role
–


us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#ConnectToInstance:instanceId=i-09f7ee2b83a524b64
EC2 > Instances > i-09f7ee2b83a524b64 > Connect to instance
Connect to instance Info
Connect to your instance i-09f7ee2b83a524b64 using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 Serial Console
Instance ID
i-09f7ee2b83a524b64
Public IP address
3.135.232.51
User name
ec2-user
Connect using a custom user name, or use the default user name ec2-user for the AMI used to launch the instance.


us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#ConnectToInstance:instanceId=i-09f7ee2b83a524b64
Apps
Gmail
YouTube
Maps
News
Translate
Reading list
aws
Services
Search for services, features, marketplace products, and docs
[Alt+S]
vaish@123 @ 8999-3528-0173
Ohio
Support
Instance ID
i-09f7ee2b83a524b64
Public IP address
3.135.232.51
User name
ec2-user
Connect using a custom user name, or use the default user name ec2-user for the AMI used to launch the instance.
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
Cancel
Connect
Feedback
English (US)
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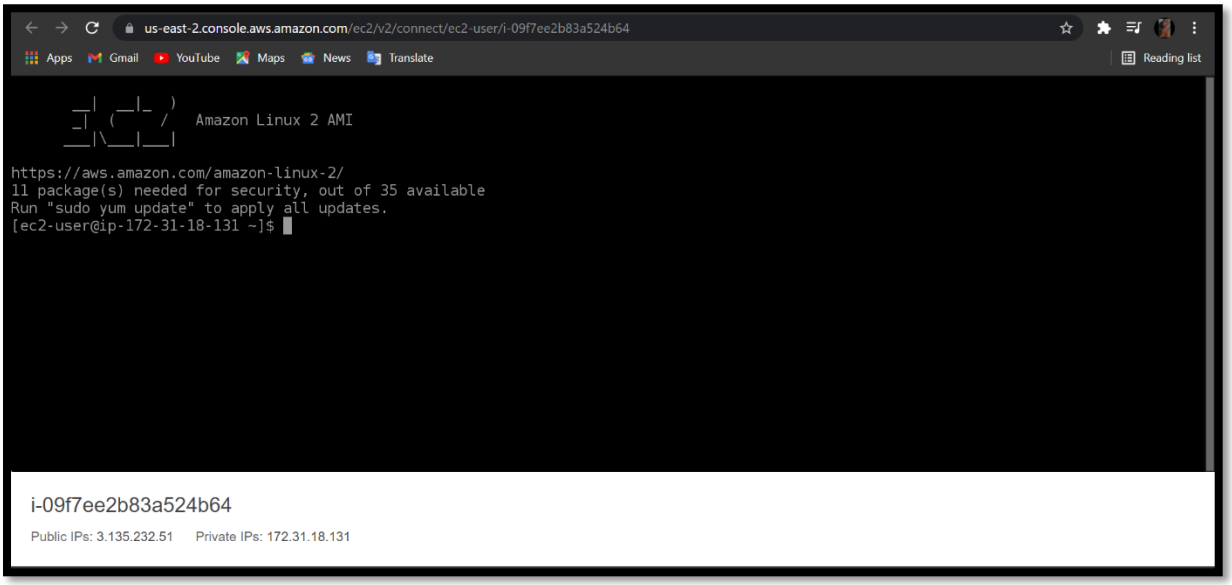
us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-09f7ee2b83a524b64
Apps
Gmail
YouTube
Maps
News
Translate
Reading list
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
11 package(s) needed for security, out of 35 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-18-131 ~]$
i-09f7ee2b83a524b64
Public IPs: 3.135.232.51
Private IPs: 172.31.18.131