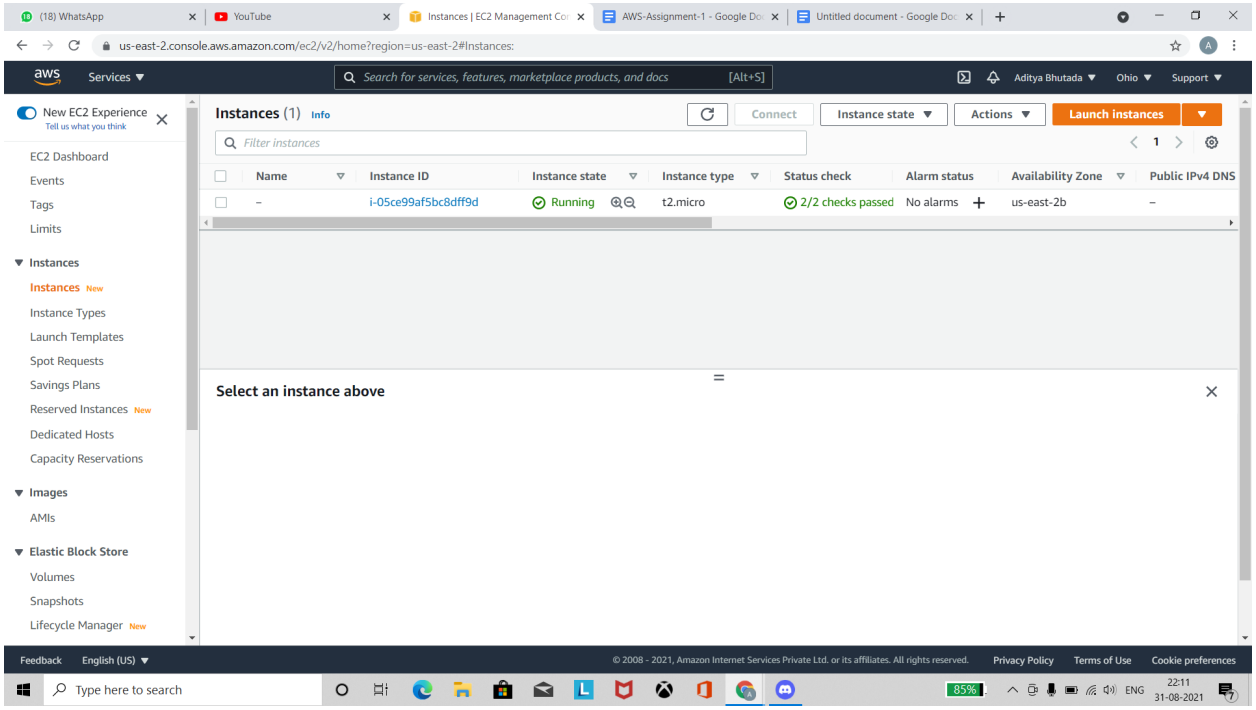
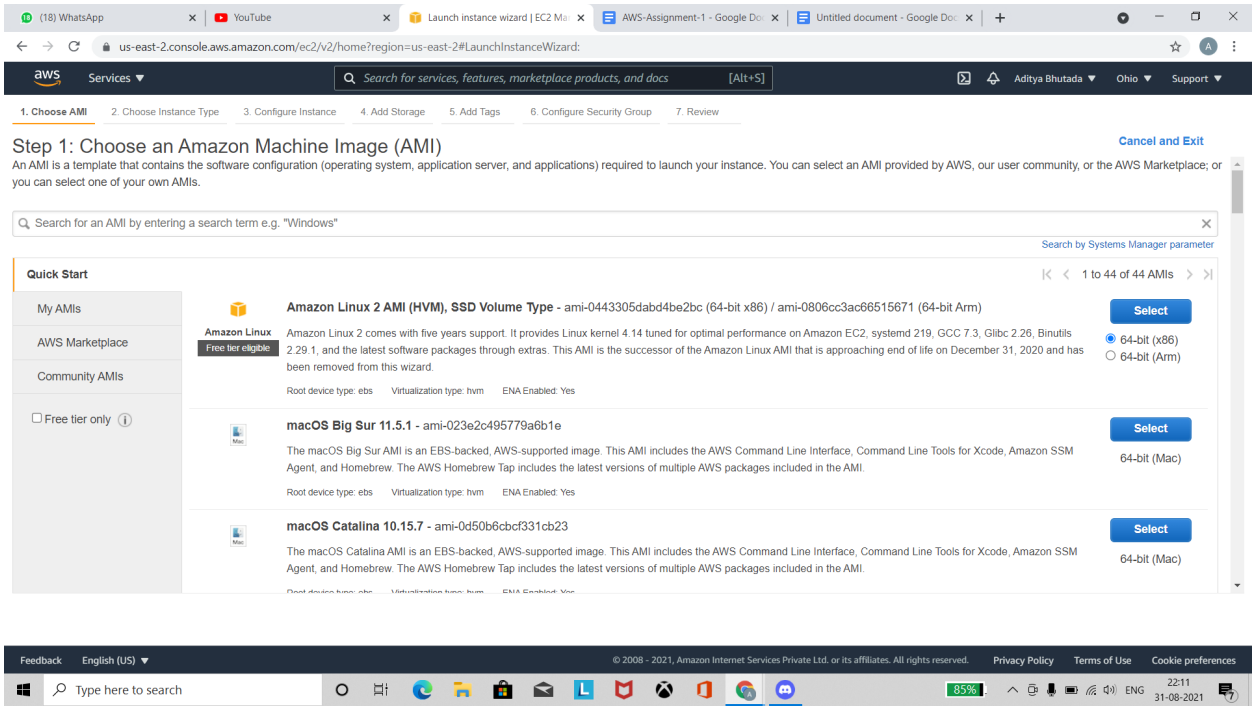
# Assignment-2

Instance

**Aditya Bhutada**

**adityabhutada1@gmail.com**



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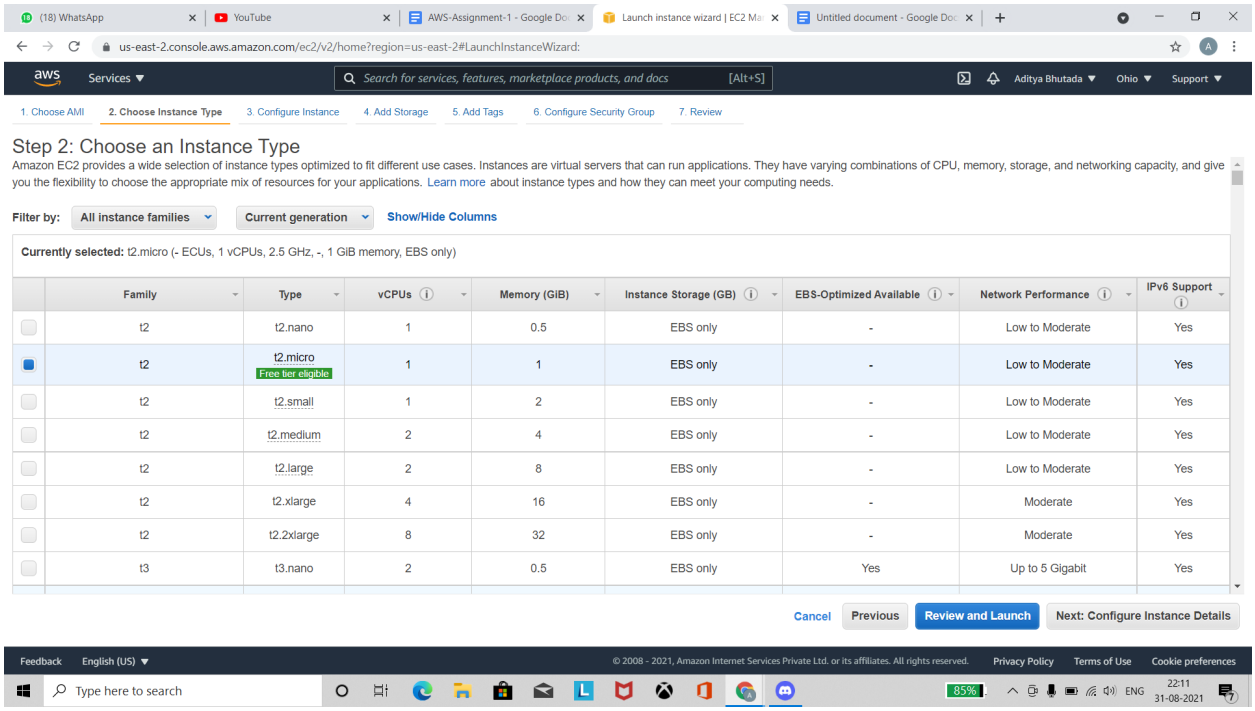


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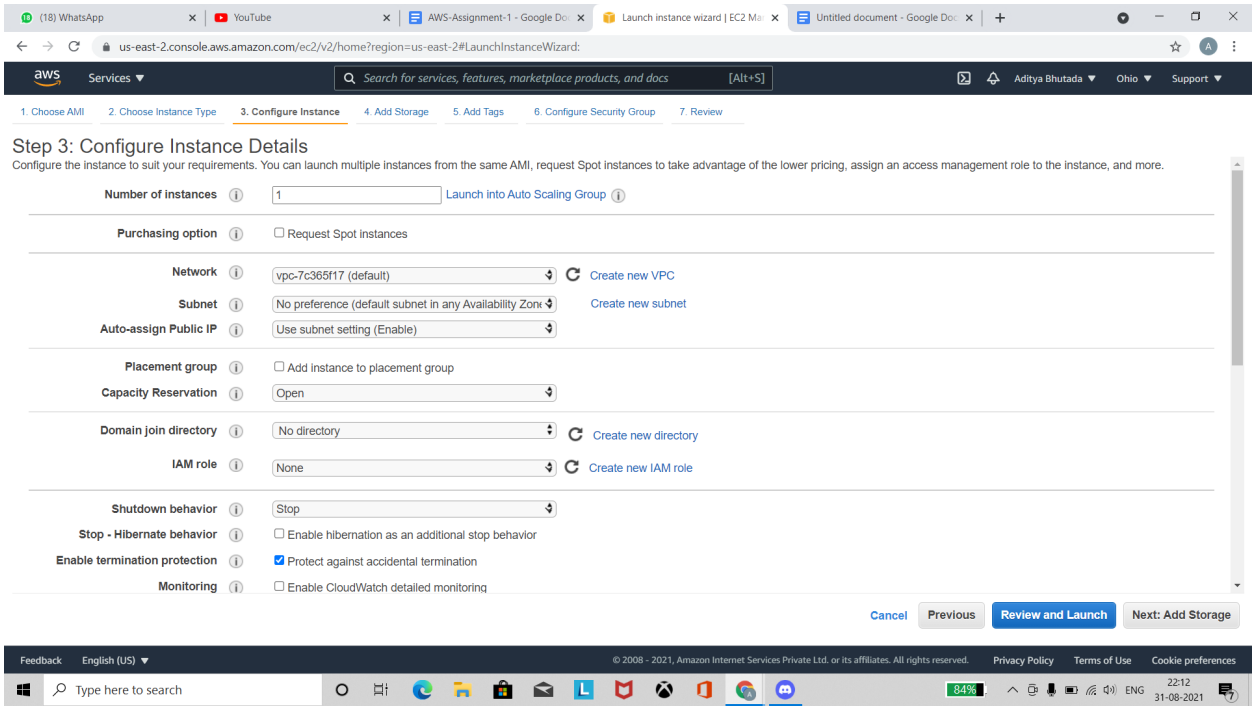
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Launch instance wizard | EC2 Ma
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us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
aws
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Support
1. Choose AMI
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-7c365f17 (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
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
Cancel
Previous
Review and Launch
Next: Add Storage
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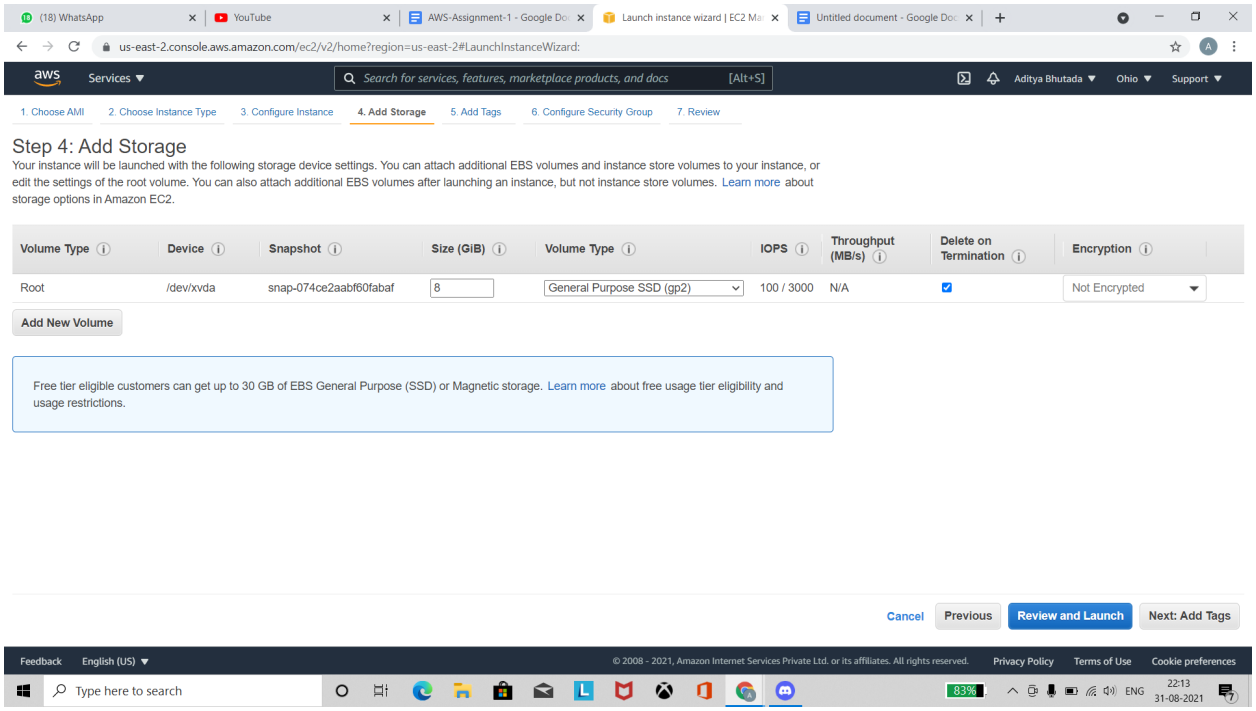
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1. Choose AMI
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4. Add Storage
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6. Configure Security Group
7. Review
Step 4: Add Storage
Your instance will be launched with the following storage 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-074ce2aabf60fabaf
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.
Cancel
Previous
Review and Launch
Next: Add Tags
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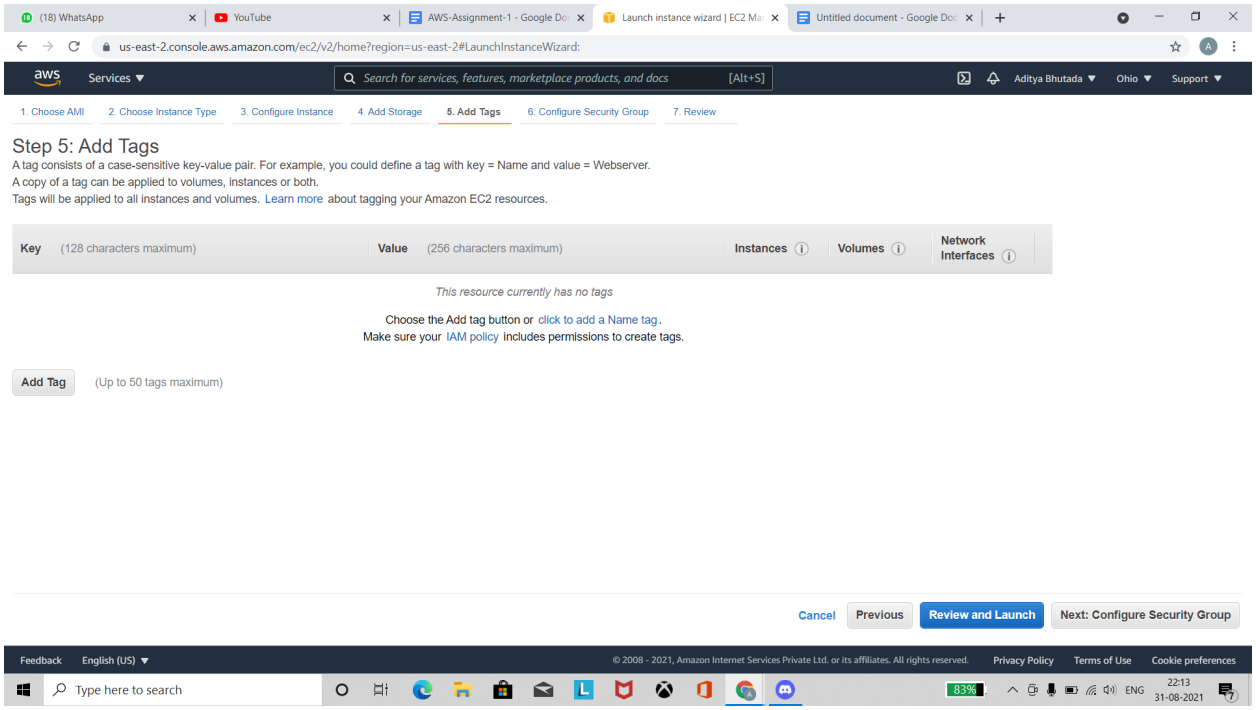
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1. Choose AMI
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7. Review
Step 5: Add Tags
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied 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
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)
Cancel
Previous
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Next: Configure Security Group
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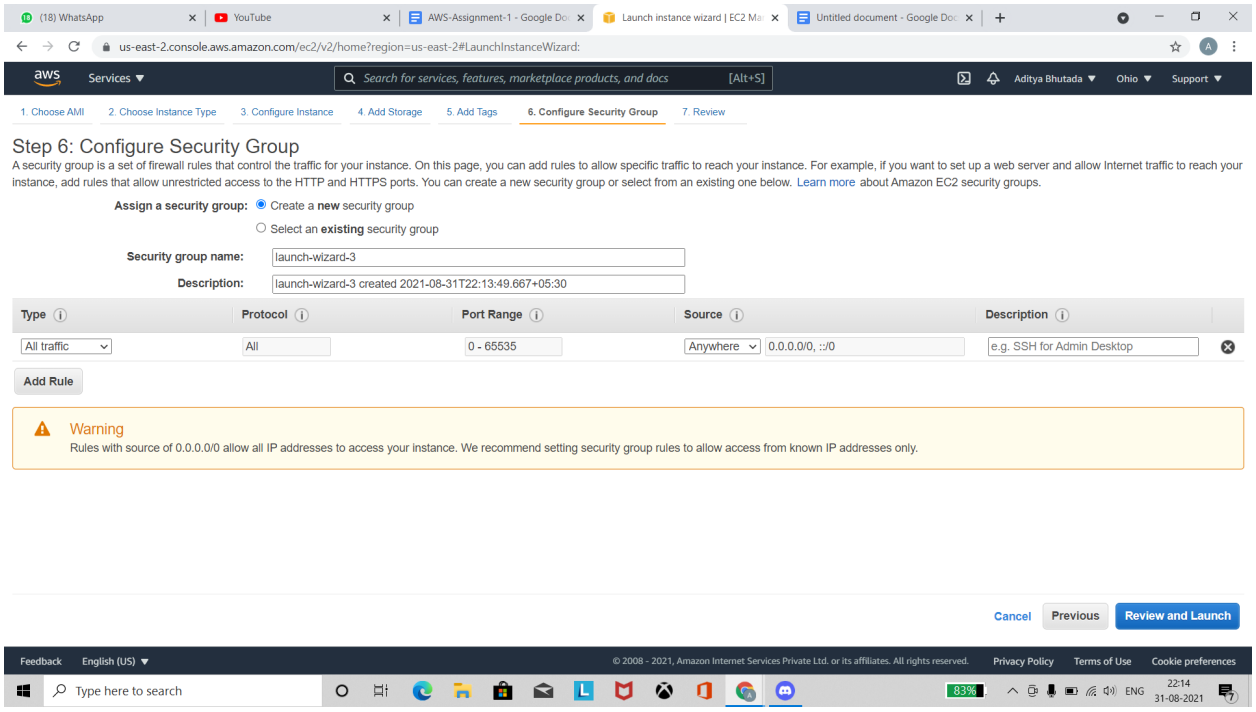
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6. Configure Security Group
7. Review
Step 6: Configure Security Group
A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, 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-3
Description: launch-wizard-3 created 2021-08-31T22:13:49.667+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
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
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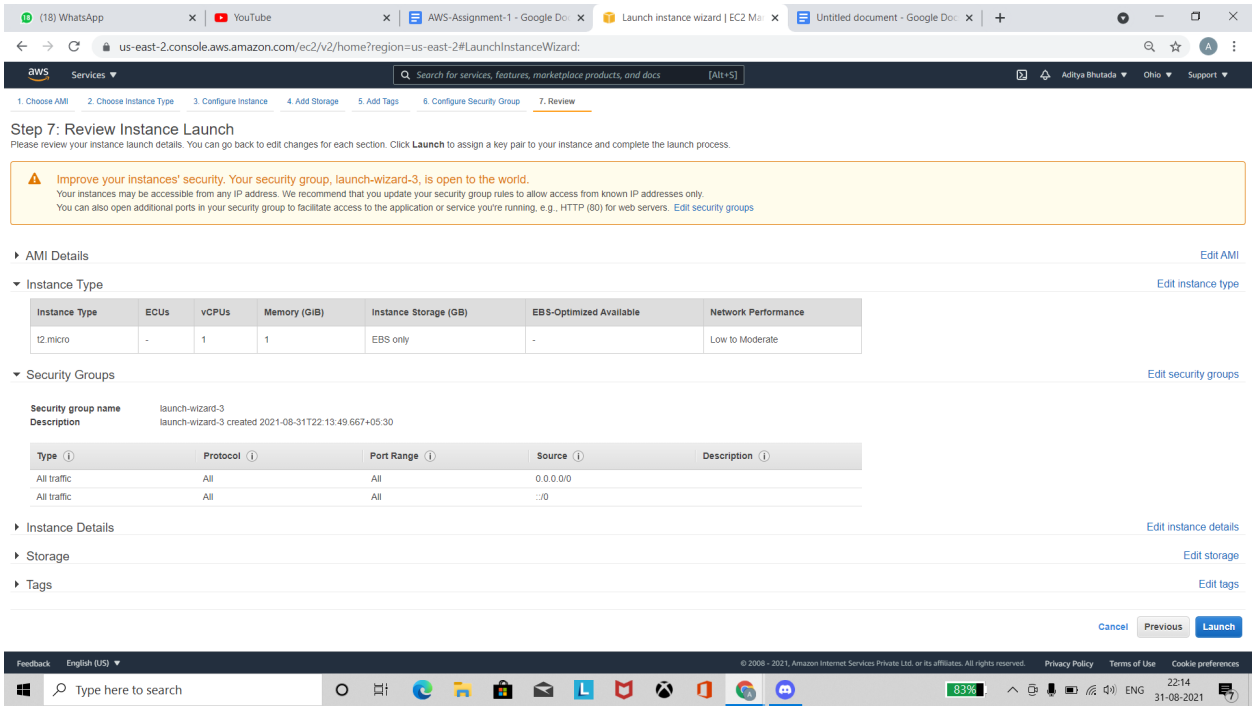
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 7: Review Instance Launch
Please review your instance launch details. You can go back to edit changes for each 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-3, 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
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-3
Description launch-wizard-3 created 2021-08-31T22:13:49.667+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
Feedback
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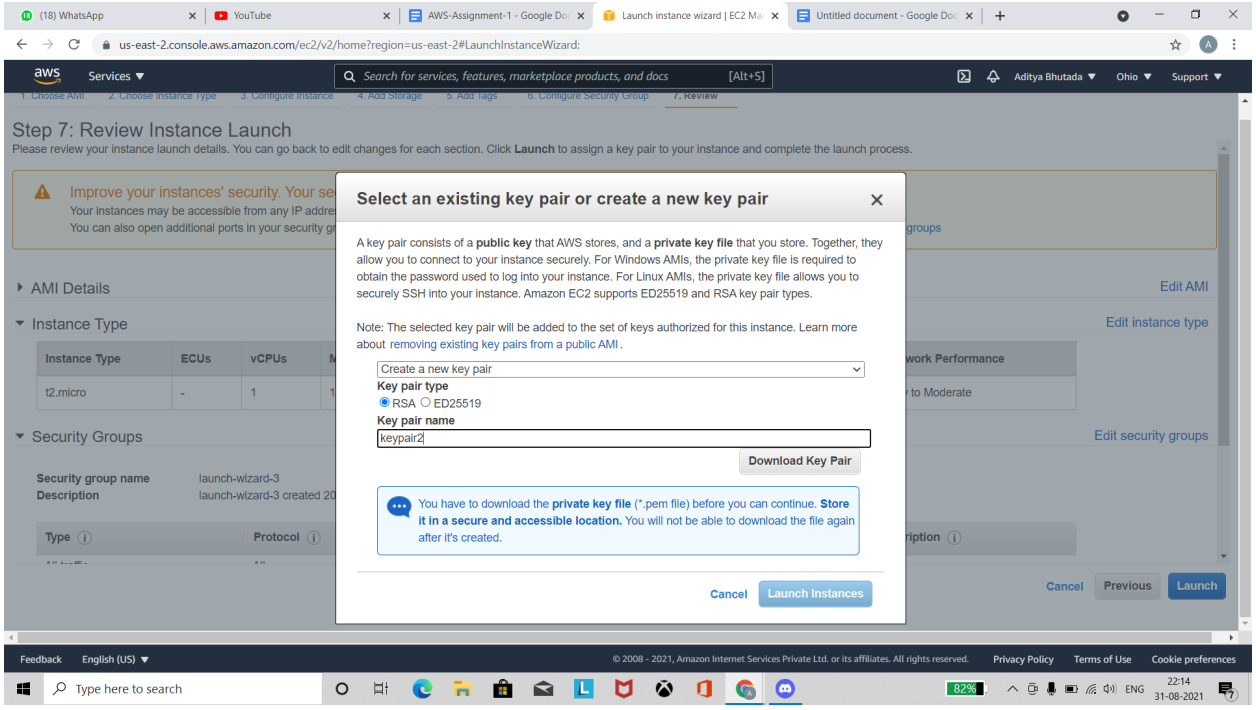
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Support
Step 7: Review Instance Launch
Please review your instance launch details. You can go back to edit changes for each section. Click Launch to assign a key pair to your instance and complete the launch process.
Select an existing key pair or 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
keypair2
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
AMI Details
Edit AMI
Instance Type
Edit instance type
Security Groups
Edit security groups
Security group name launch-wizard-3
Cancel
Previous
Launch
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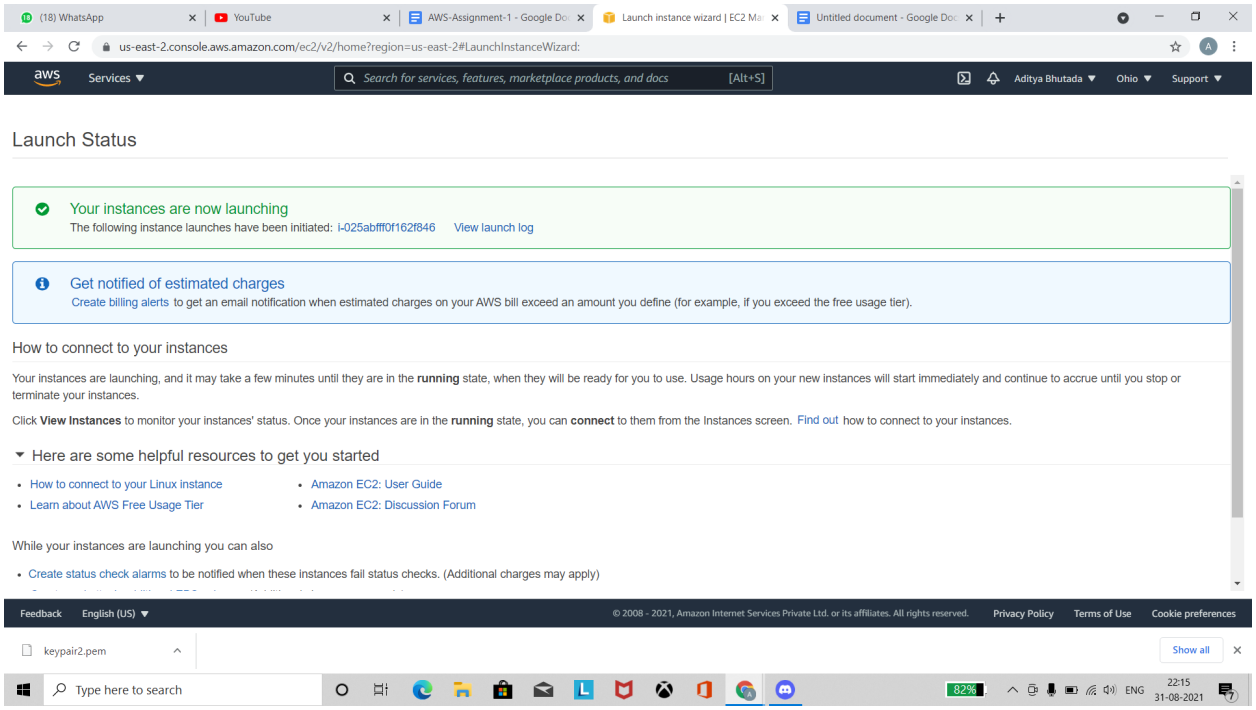
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Support
Launch Status
Your instances are now launching
The following instance launches have been initiated: i-025abfff0f162f846 View launch log
Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges 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
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)
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keypair2.pem
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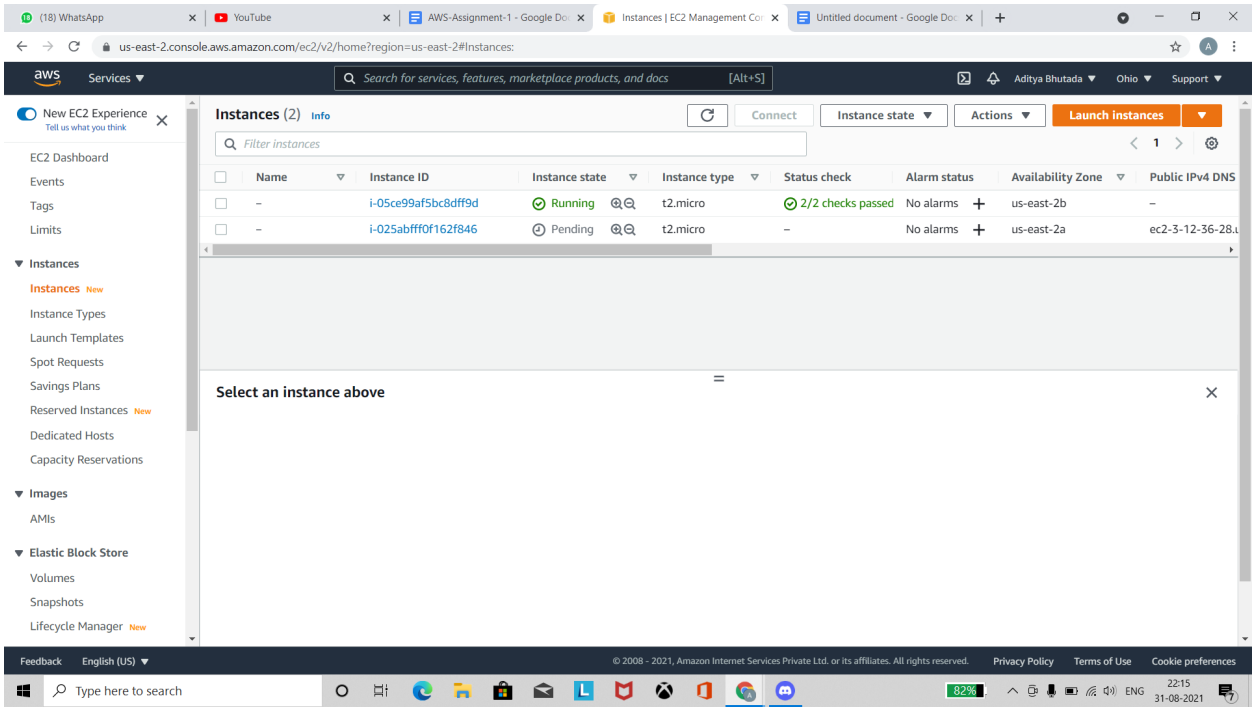
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Support
New EC2 Experience
Tell us what you think
EC2 Dashboard
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager New
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Filter instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
i-05ce99af5bc8dff9d
Running
t2.micro
2/2 checks passed
No alarms
us-east-2b
i-025abfff0f162f846
Pending
t2.micro
No alarms
us-east-2a
Select an instance above
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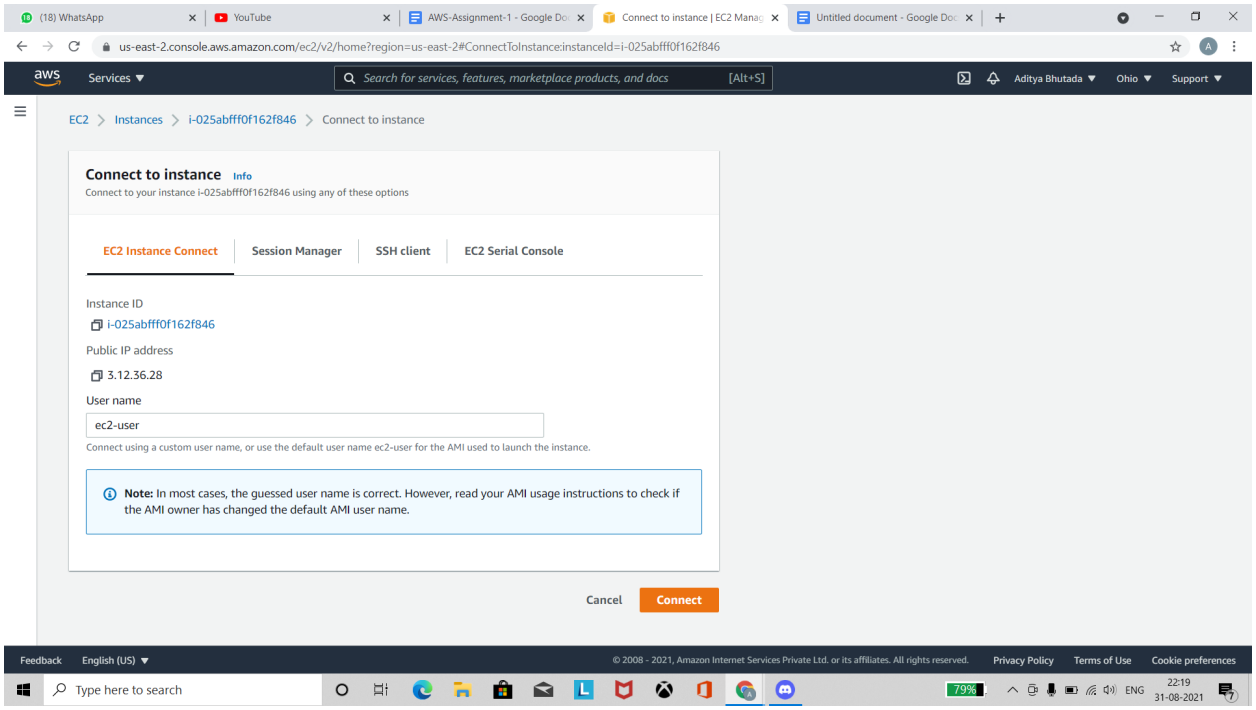
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Support
EC2 > Instances > i-025abfff0f162f846 > Connect to instance
Connect to instance Info
Connect to your instance i-025abfff0f162f846 using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 Serial Console
Instance ID
i-025abfff0f162f846
Public IP address
3.12.36.28
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
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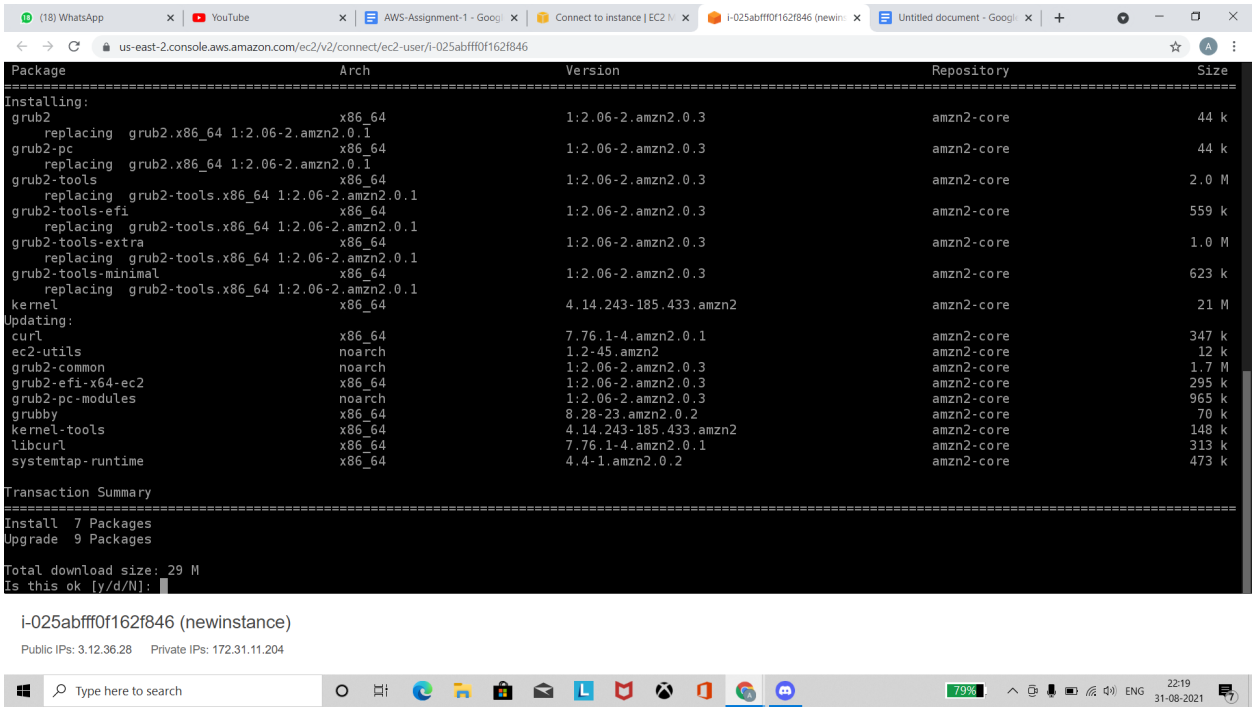
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us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-025abfff0f162f846
Package Arch Version Repository Size
Installing:
grub2 x86_64 1:2.06-2.amzn2.0.3 amzn2-core 44 k
replacing grub2.x86_64 1:2.06-2.amzn2.0.1
grub2-pc x86_64 1:2.06-2.amzn2.0.3 amzn2-core 44 k
replacing grub2.x86_64 1:2.06-2.amzn2.0.1
grub2-tools x86_64 1:2.06-2.amzn2.0.3 amzn2-core 2.0 M
replacing grub2-tools.x86_64 1:2.06-2.amzn2.0.1
grub2-tools-efi x86_64 1:2.06-2.amzn2.0.3 amzn2-core 559 k
replacing grub2-tools.x86_64 1:2.06-2.amzn2.0.1
grub2-tools-extra x86_64 1:2.06-2.amzn2.0.3 amzn2-core 1.0 M
replacing grub2-tools.x86_64 1:2.06-2.amzn2.0.1
grub2-tools-minimal x86_64 1:2.06-2.amzn2.0.3 amzn2-core 623 k
replacing grub2-tools.x86_64 1:2.06-2.amzn2.0.1
kernel x86_64 4.14.243-185.433.amzn2 amzn2-core 21 M
Updating:
curl x86_64 7.76.1-4.amzn2.0.1 amzn2-core 347 k
ec2-utils noarch 1.2-45.amzn2 amzn2-core 12 k
grub2-common noarch 1:2.06-2.amzn2.0.3 amzn2-core 1.7 M
grub2-efi-x64-ec2 x86_64 1:2.06-2.amzn2.0.3 amzn2-core 295 k
grub2-pc-modules noarch 1:2.06-2.amzn2.0.3 amzn2-core 965 k
grubby x86_64 8.28-23.amzn2.0.2 amzn2-core 70 k
kernel-tools x86_64 4.14.243-185.433.amzn2 amzn2-core 148 k
libcurl x86_64 7.76.1-4.amzn2.0.1 amzn2-core 313 k
systemtap-runtime x86_64 4.4-1.amzn2.0.2 amzn2-core 473 k
Transaction Summary
Install 7 Packages
Upgrade 9 Packages
Total download size: 29 M
Is this ok [y/d/N]:
i-025abfff0f162f846 (newinstance)
Public IPs: 3.12.36.28 Private IPs: 172.31.11.204
Type here to search
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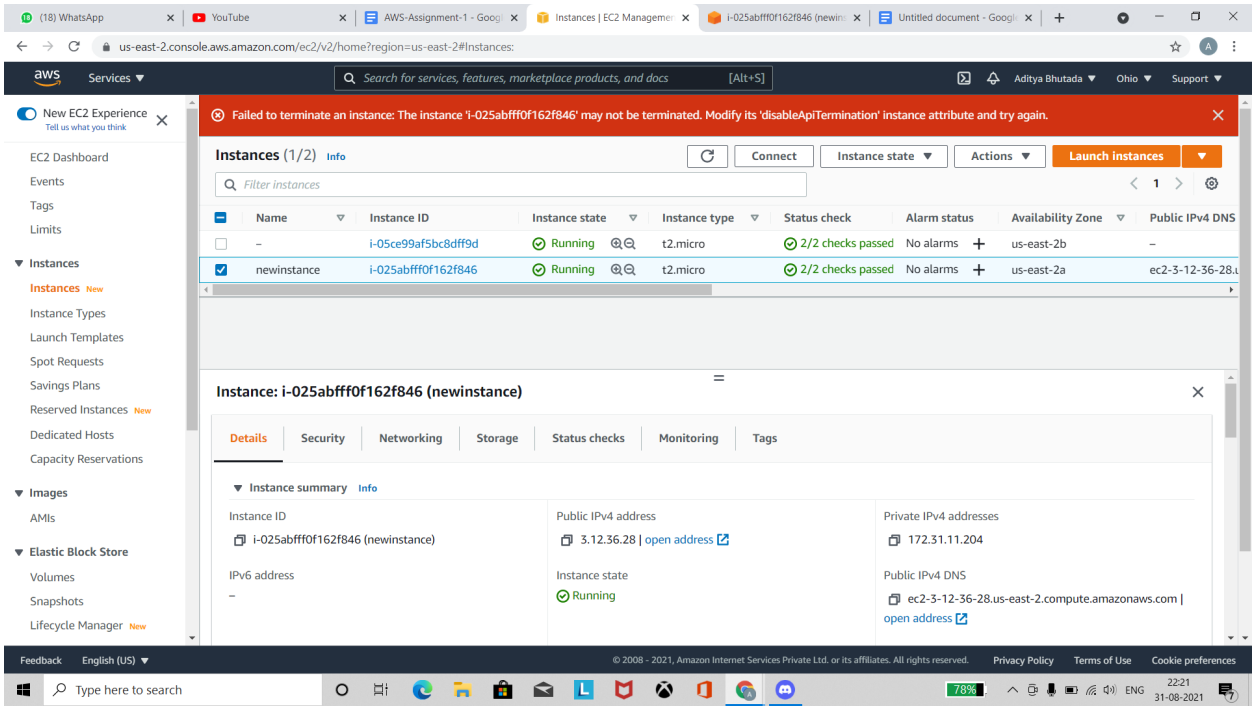
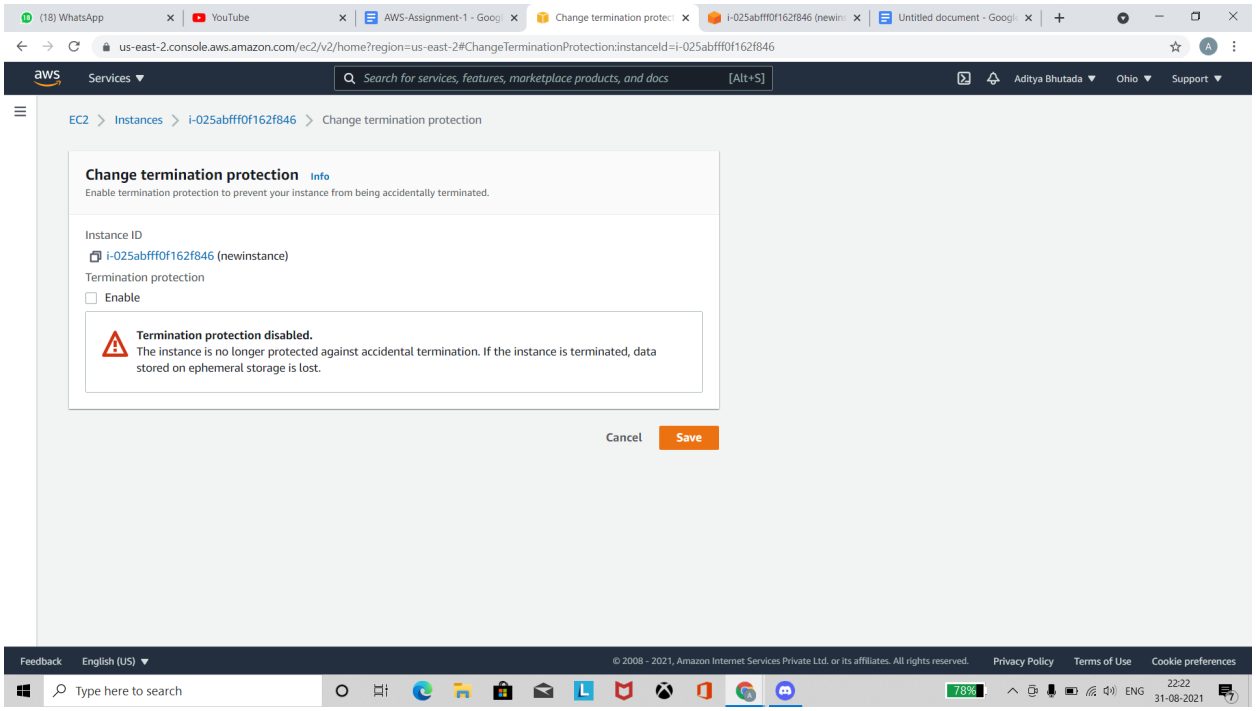
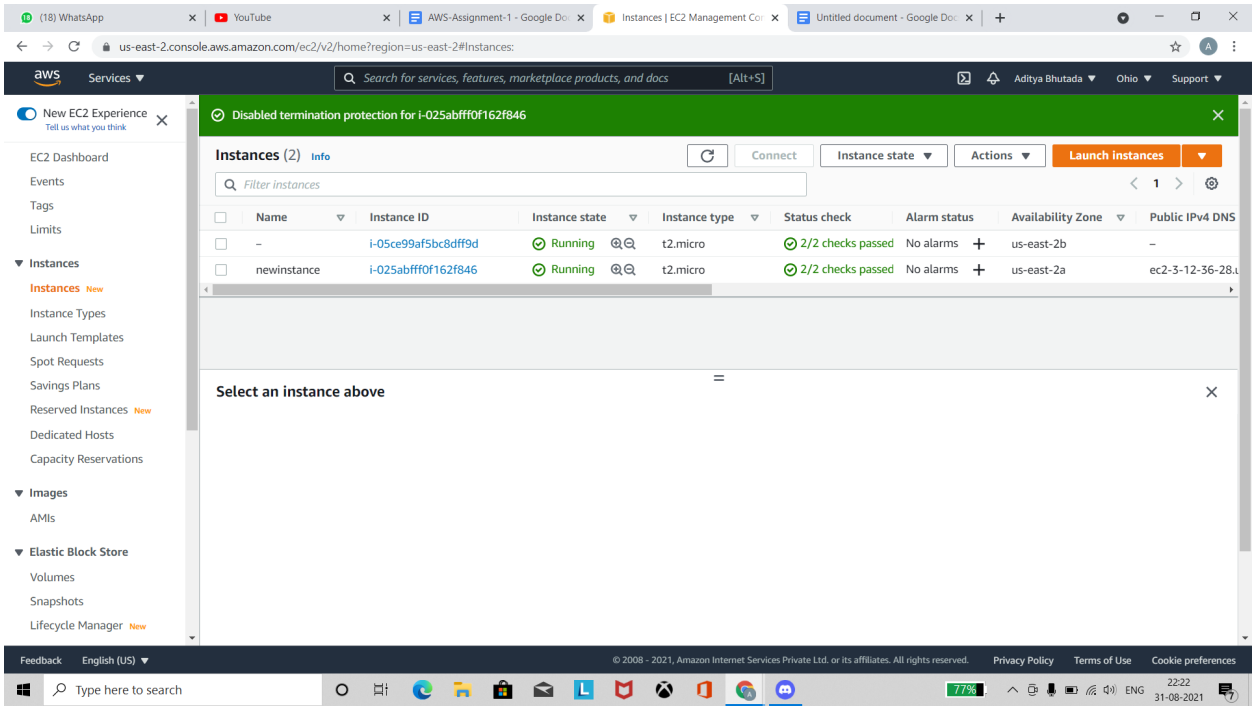
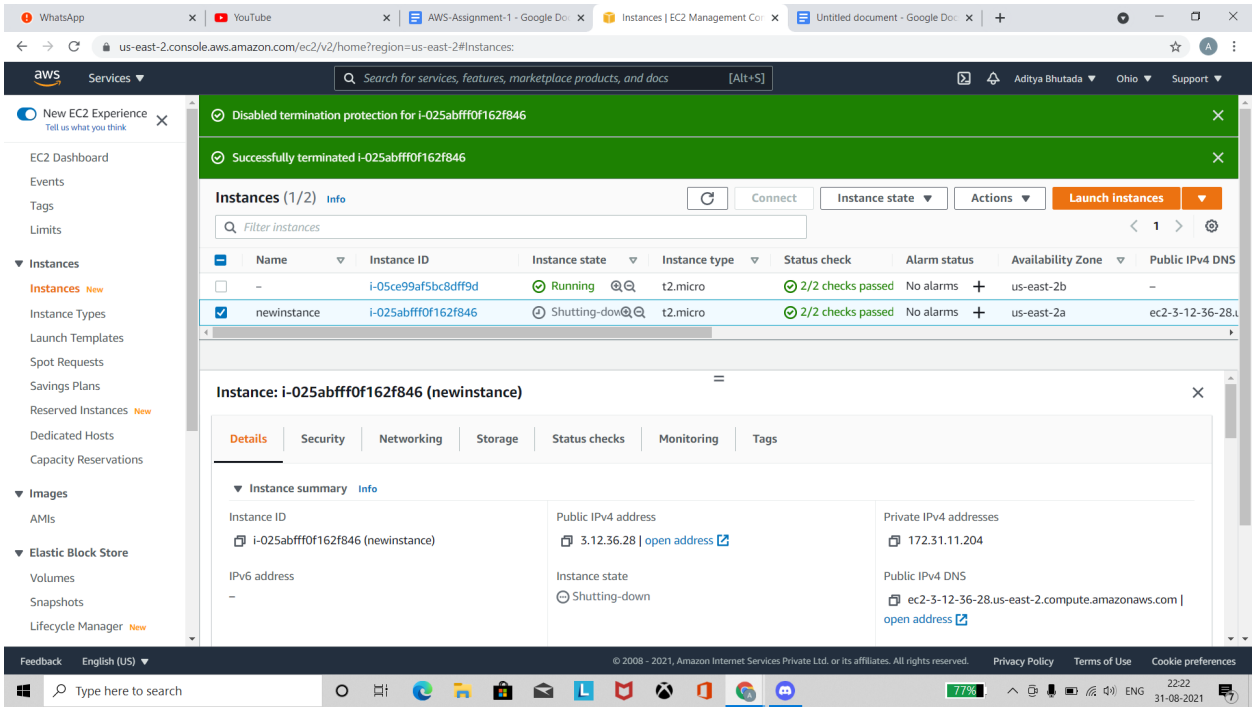

Failed to terminate an instance: The instance 'i-025abfff0f162f846' may not be terminated. Modify its 'disableApiTermination' instance attribute and try again.
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
i-05ce99af5bc8dff9d
i-025abfff0f162f846
Running
t2.micro
2/2 checks passed
No alarms
us-east-2b
us-east-2a
newinstance
Instance: i-025abfff0f162f846 (newinstance)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-025abfff0f162f846 (newinstance)
Public IPv4 address
3.12.36.28 | open address
Private IPv4 addresses
172.31.11.204
IPv6 address
Instance state
Running
Public IPv4 DNS
ec2-3-12-36-28.us-east-2.compute.amazonaws.com | open address


EC2 > Instances > i-025abfff0f162f846 > Change termination protection
Change termination protection Info
Enable termination protection to prevent your instance from being accidentally terminated.
Instance ID
i-025abfff0f162f846 (newinstance)
Termination protection
Enable
Termination protection disabled.
The instance is no longer protected against accidental termination. If the instance is terminated, data stored on ephemeral storage is lost.
Cancel
Save


Disabled termination protection for i-025abfff0f162f846
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Filter instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
- i-05ce99af5bc8dff9d Running t2.micro 2/2 checks passed No alarms us-east-2b -
newinstance i-025abfff0f162f846 Running t2.micro 2/2 checks passed No alarms us-east-2a ec2-3-12-36-28.
Select an instance above


Disabled termination protection for i-025abfff0f162f846
Successfully terminated i-025abfff0f162f846
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Filter instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
- i-05ce99af5bc8dff9d Running t2.micro 2/2 checks passed No alarms us-east-2b -
newinstance i-025abfff0f162f846 Shutting-dow t2.micro 2/2 checks passed No alarms us-east-2a ec2-3-12-36-28.
Instance: i-025abfff0f162f846 (newinstance)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-025abfff0f162f846 (newinstance)
Public IPv4 address
3.12.36.28 | open address
Private IPv4 addresses
172.31.11.204
IPv6 address
-
Instance state
Shutting-down
Public IPv4 DNS
ec2-3-12-36-28.us-east-2.compute.amazonaws.com | open address