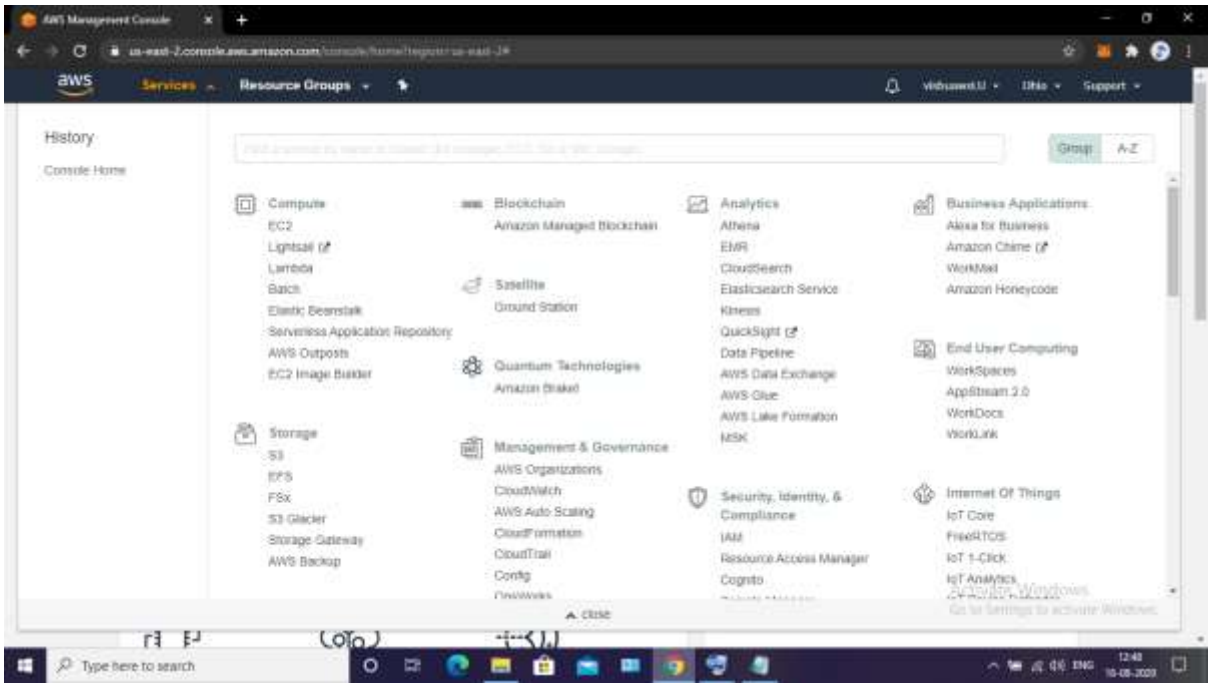
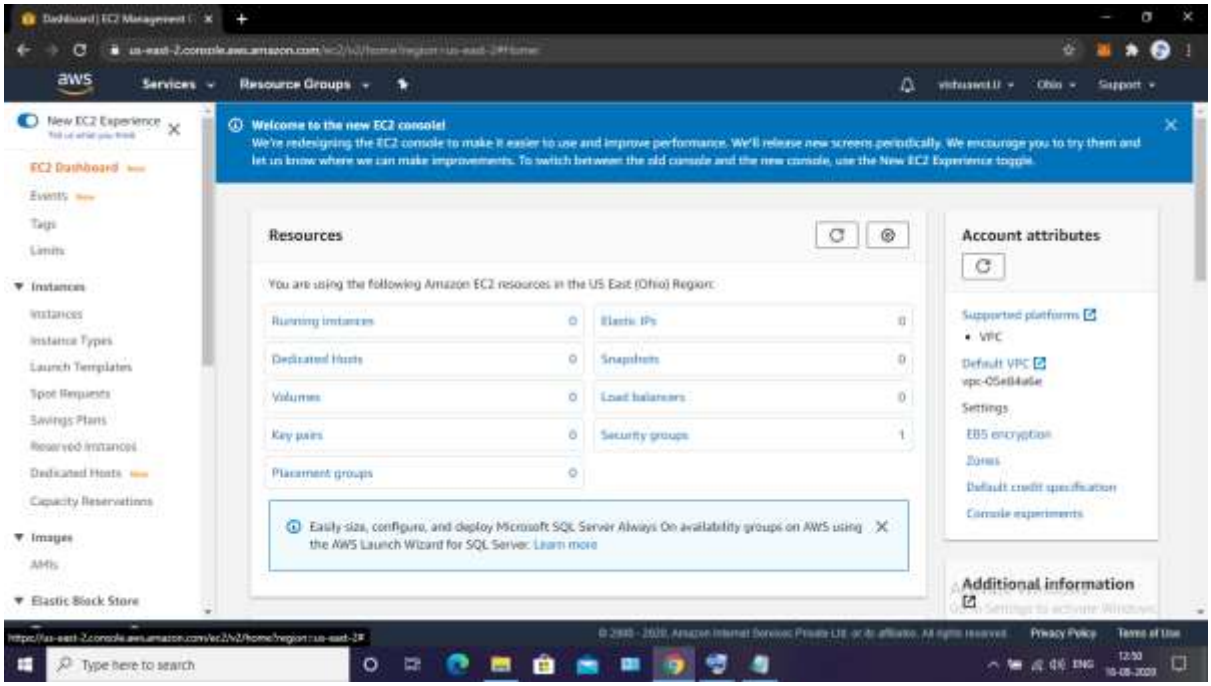
AWS Project

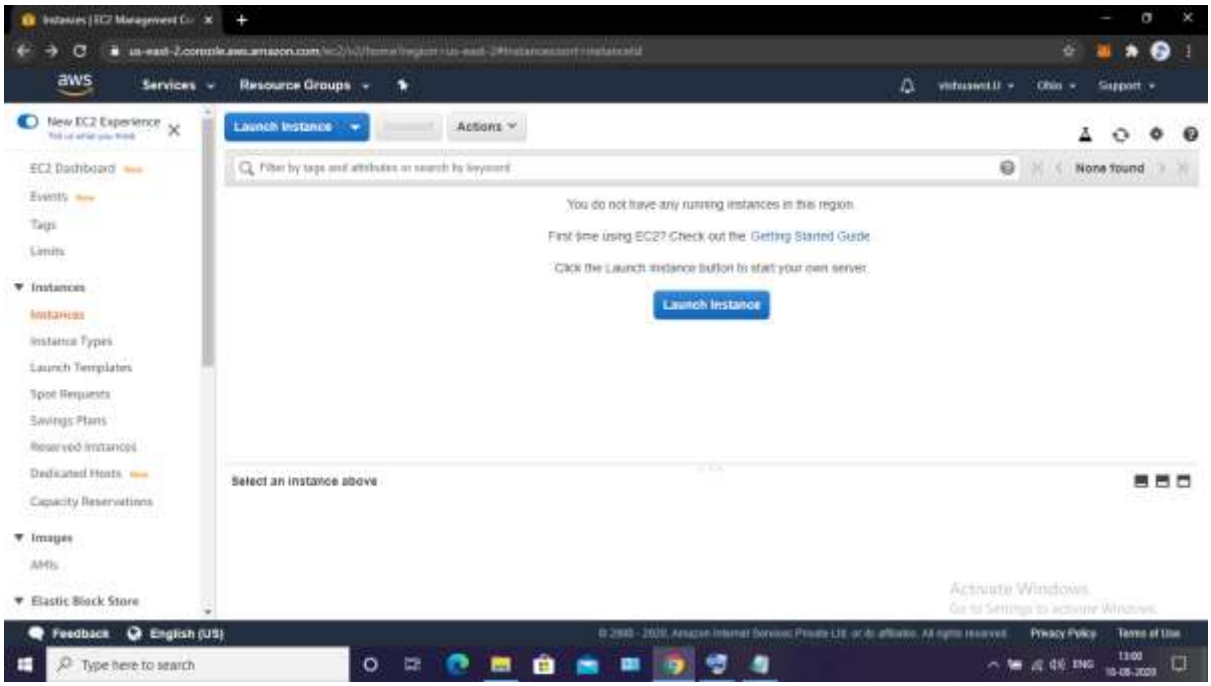
PROJECT 1:

Deploying a web server in Windows instance:

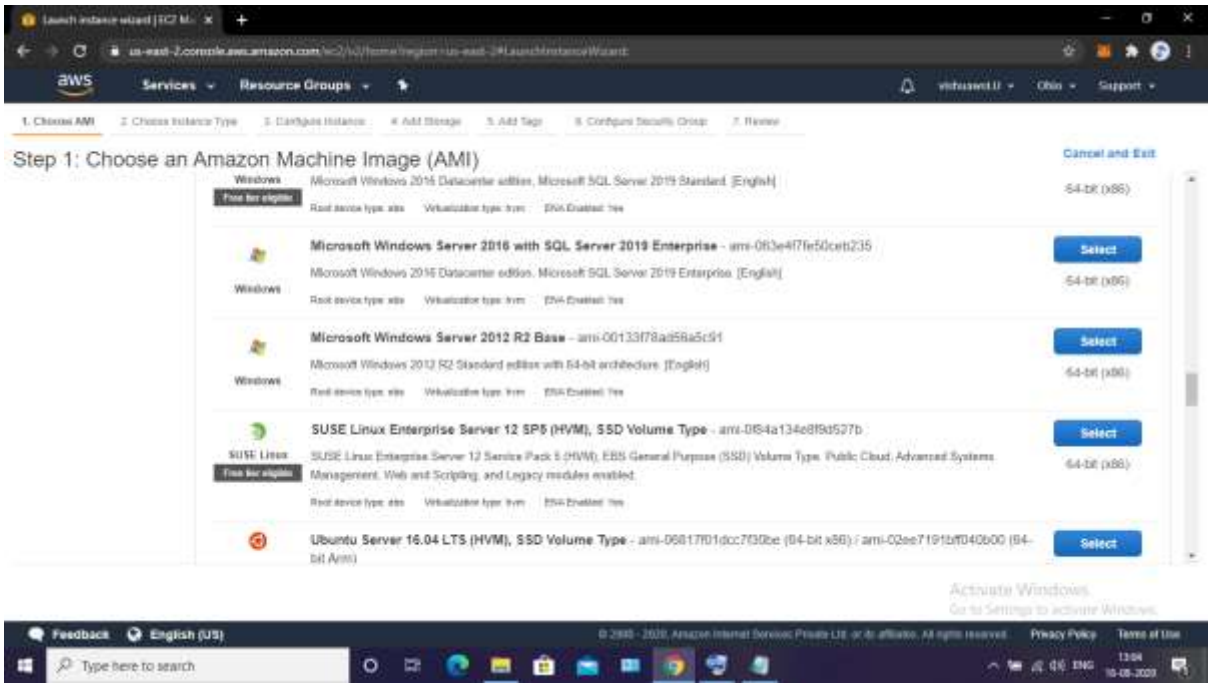
Windows 2012 R2 base:

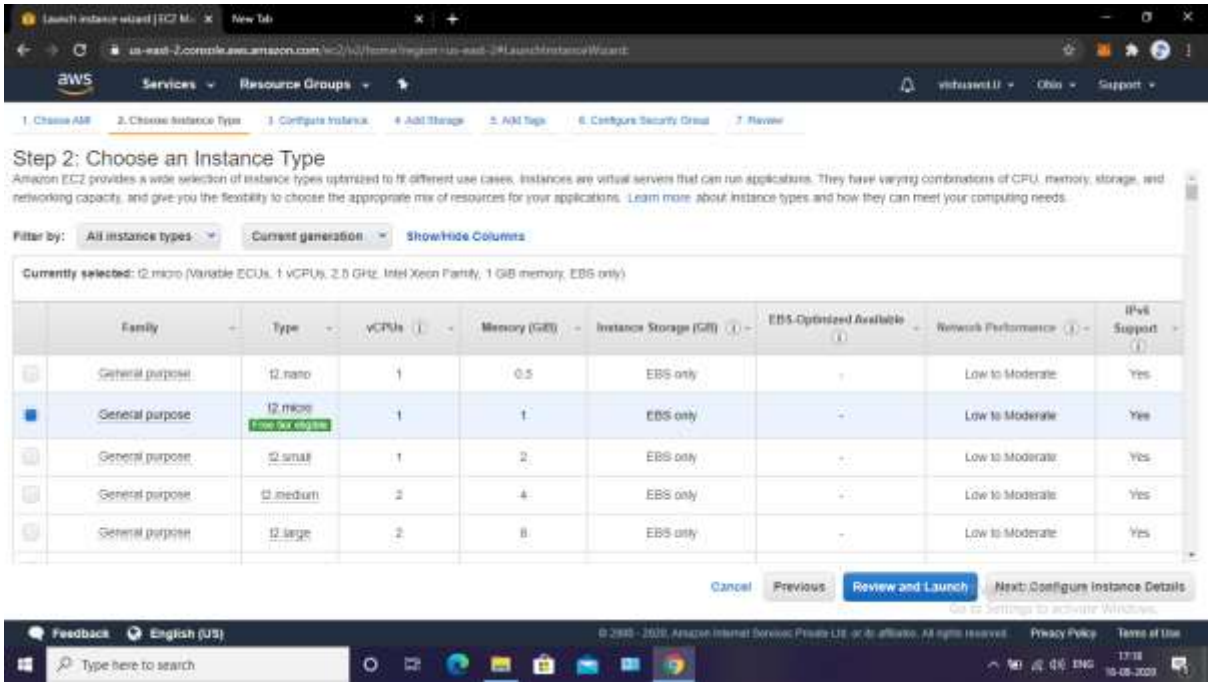


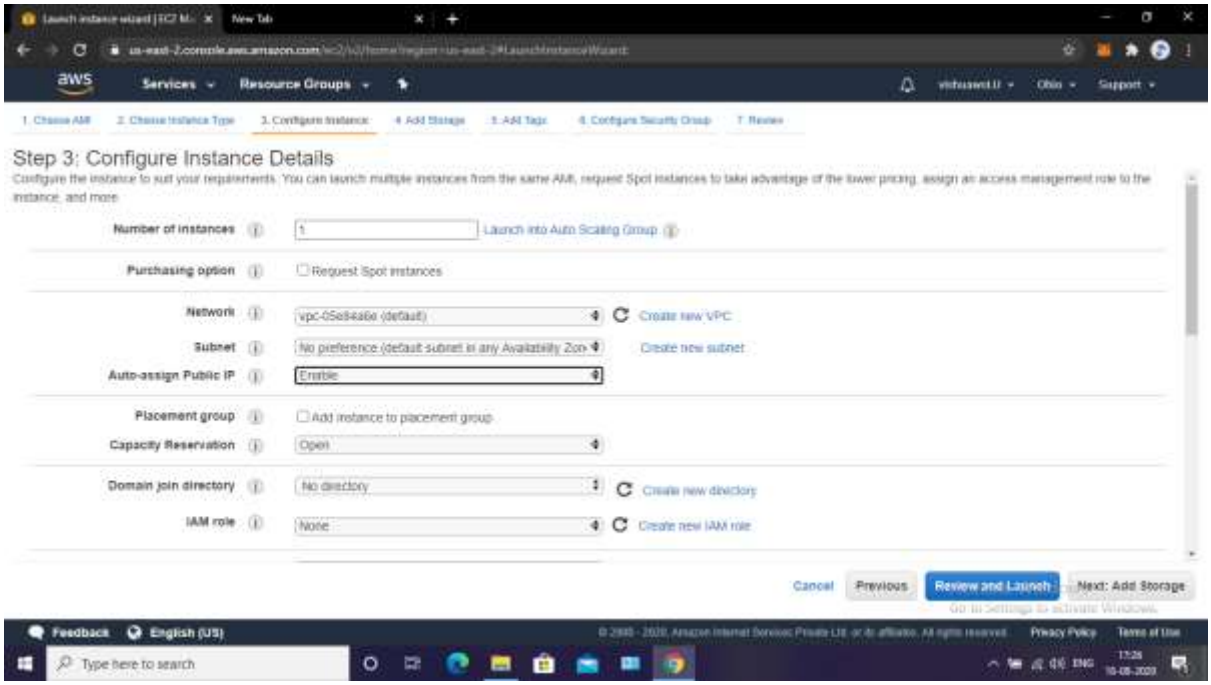




Task 1:Create a windows instance using AMI :Windows 2012 R2 base




Launch instance wizard | EC2 M...
New Tab
aws
Services
Resource Groups
Ohio
Support
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 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 (GiB)
EBS-Optimized Available
Network Performance
IPv6 Support
General purpose
t2.nano
1
0.5
EBS only
Low to Moderate
Yes
General purpose
t2.micro
Free tier eligible
1
1
EBS only
Low to Moderate
Yes
General purpose
t2.small
1
2
EBS only
Low to Moderate
Yes
General purpose
t2.medium
2
4
EBS only
Low to Moderate
Yes
General purpose
t2.large
2
8
EBS only
Low to Moderate
Yes
Cancel
Previous
Review and Launch
Next: Configure Instance Details
Feedback
English (US)
Privacy Policy
Terms of Use
Type here to search


Launch instance wizard | EC2 M...
New Tab
aws
Services
Resource Groups
Ohio
Support
1. Choose AMI
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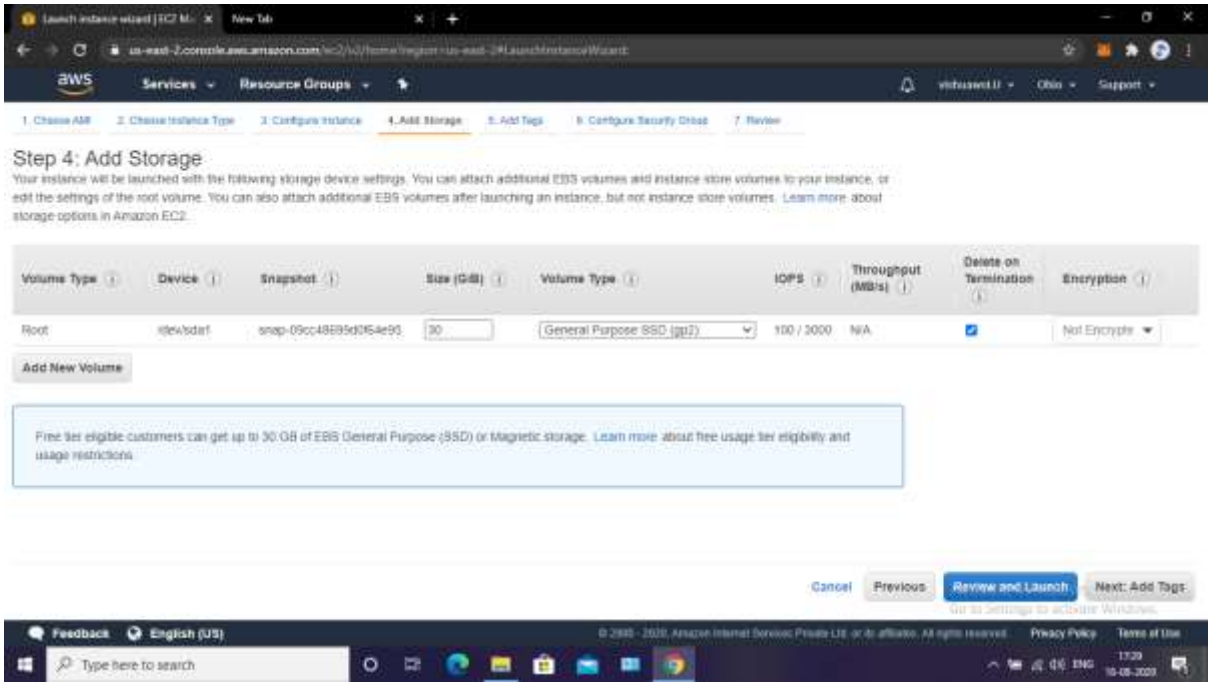
7. Review
Step 3: Configure Instance Details
Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.
Number of instances
1
Launch into Auto Scaling Group
Purchasing option
Request Spot instances
Network
vpc-05e84a8e (default)
Create new VPC
Subnet
No preference (default subnet in any Availability Zon
Create new subnet
Auto-assign Public IP
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
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
English (US)
Privacy Policy
Terms of Use
Type here to search


Launch instance wizard | EC2 M...
New Tab
aws
Services
Resource Groups
Ohio
Support
1. Choose AMI
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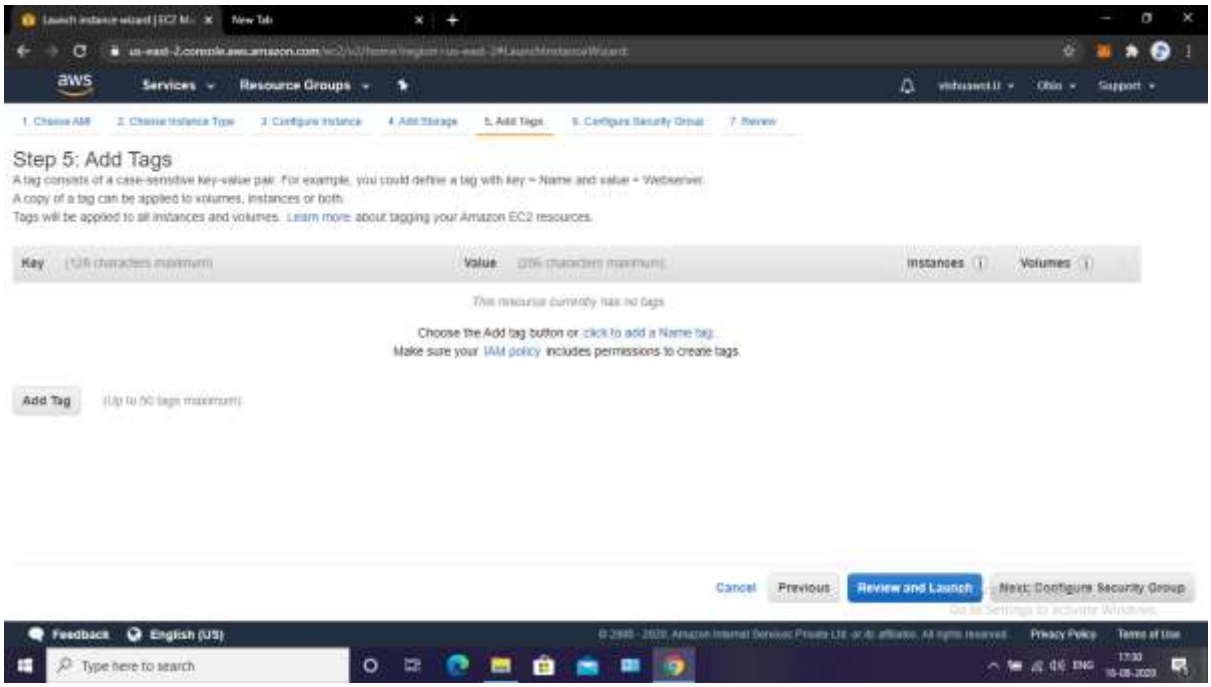
7. Review
Step 4: Add Storage
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, 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/sda1
snap-09cc48695d064e95
30
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
Feedback
English (US)
Privacy Policy
Terms of Use
Type here to search


Launch instance wizard | EC2 M...
New Tab
aws
Services
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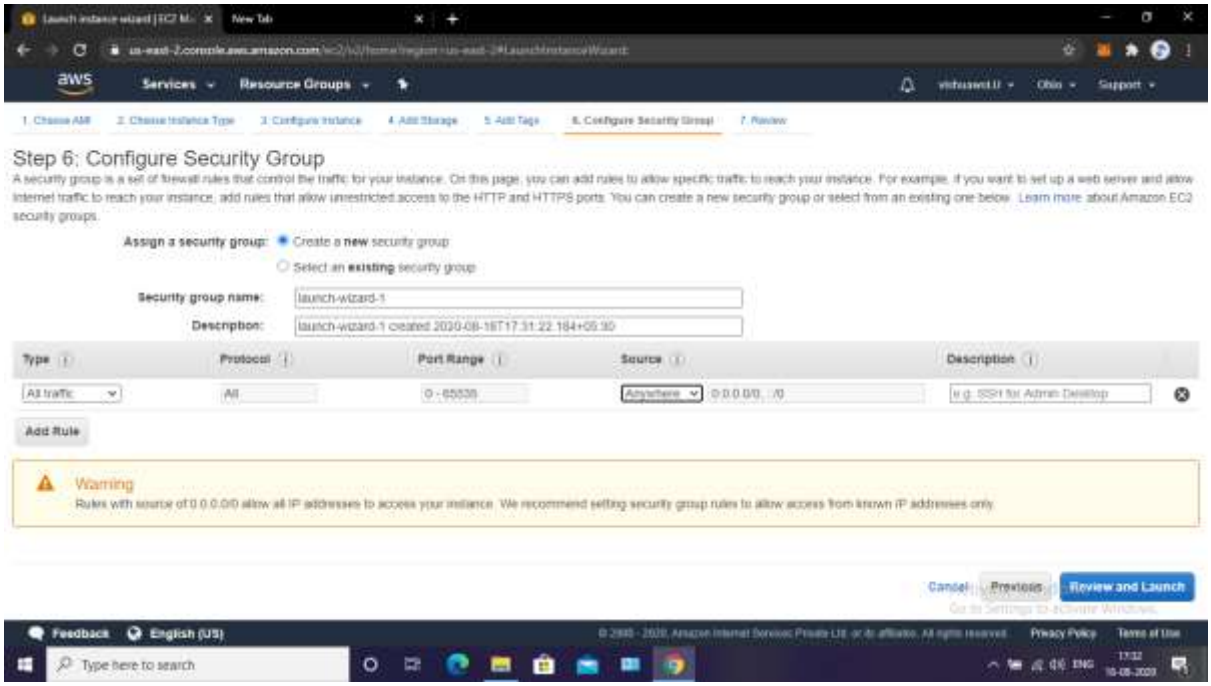
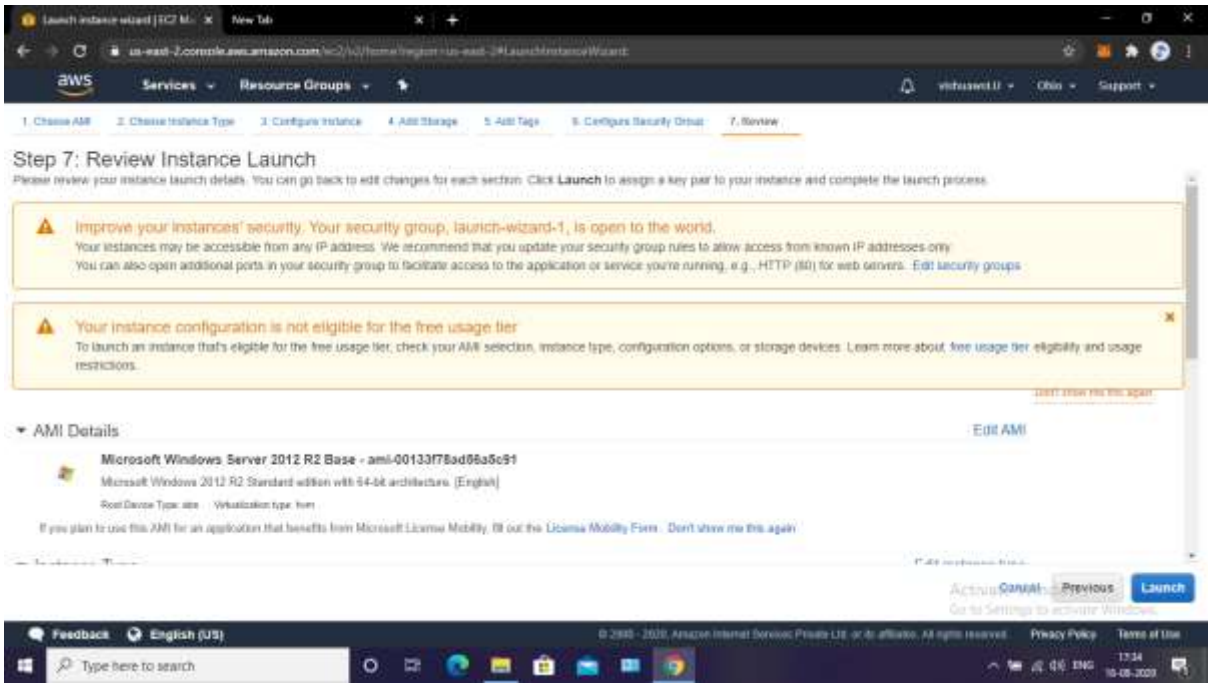
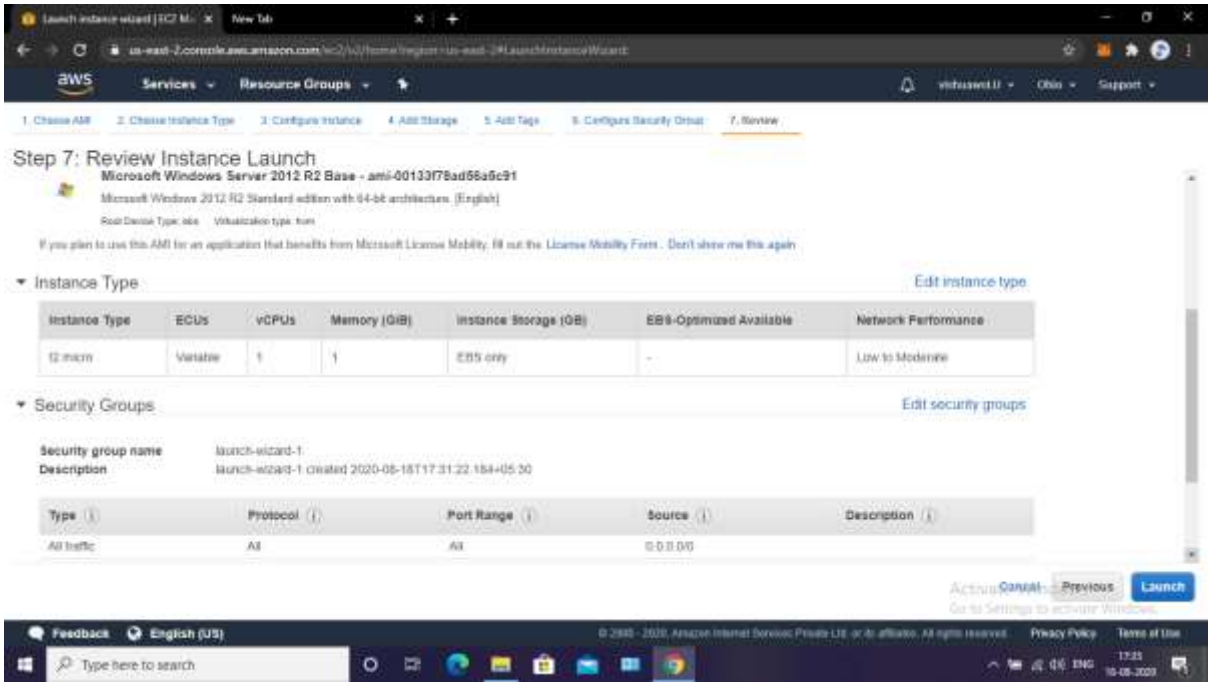
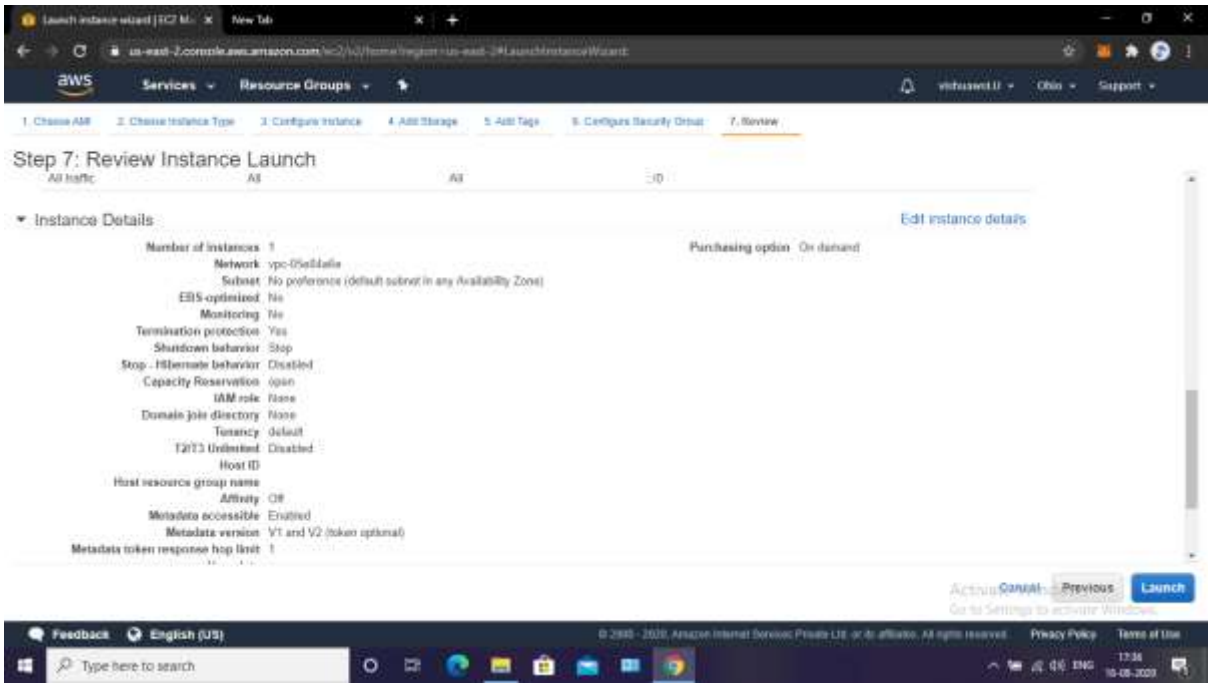
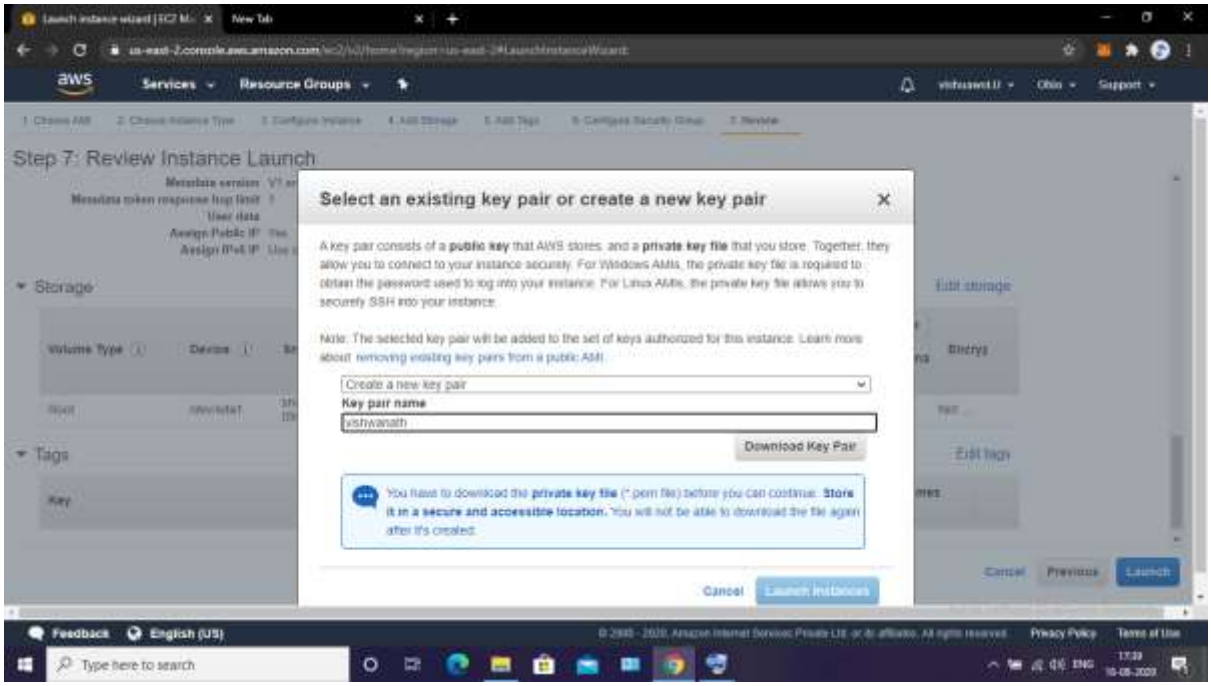
7. Review
Step 5: Add Tags
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. Learn more about tagging your Amazon EC2 resources.
Key
Value
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
Cancel
Previous
Review and Launch
Next: Configure Security Group
Feedback
English (US)
Privacy Policy
Terms of Use
Type here to search


Services
Resource Groups
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 2020-08-16T17:31:22.184+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
Previous
Review and Launch
Feedback
English (US)
Type here to search

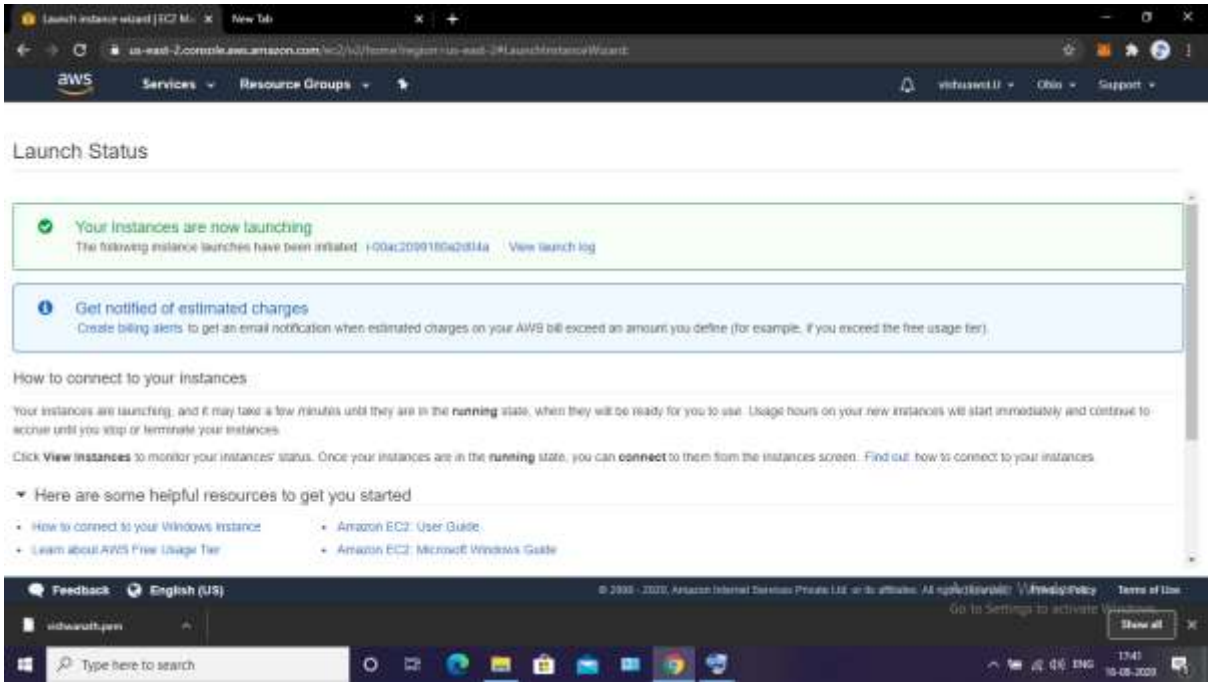

Services
Resource Groups
Step 7: Review Instance Launch
Please review your instance launch details. You can go back to edit changes for each section. Click Launch to assign a key pair to your instance and complete the launch process.
Improve your instances' security. Your security group, launch-wizard-1, 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
Your instance configuration is not eligible for the free usage tier
To launch an instance that's eligible for the free usage tier, check your AMI selection, instance type, configuration options, or storage devices. Learn more about free usage tier eligibility and usage restrictions.
AMI Details
Edit AMI
Microsoft Windows Server 2012 R2 Base - ami-00133f78ad86a5c91
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
Cancel
Previous
Launch
Feedback
English (US)
Type here to search

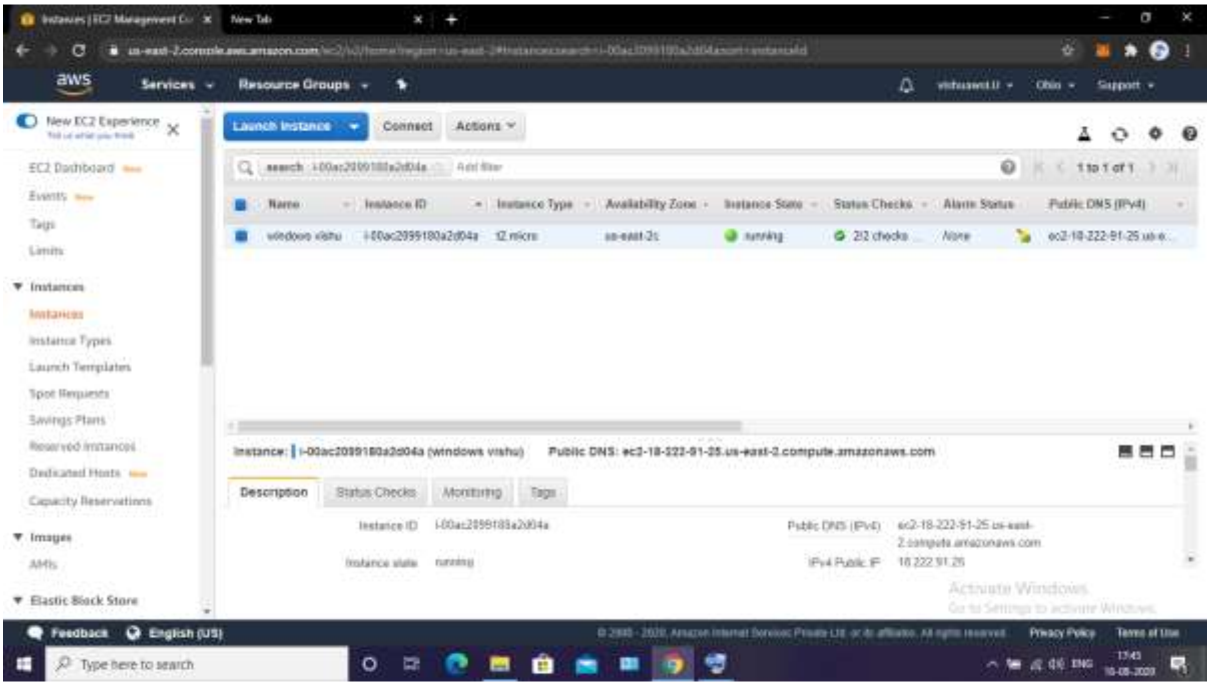

Launch instance wizard | EC2 M...
New Tab
aws
Services
Resource Groups
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 7: Review Instance Launch
Microsoft Windows Server 2012 R2 Base - ami-00133f78ad56a5c91
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
If you plan to use this AMI for an application that benefits from Microsoft License Mobility, fill out the License Mobility Form. Don't show me this again
Instance Type
Edit instance type
Instance Type
ECUs
vCPUs
Memory (GiB)
Instance Storage (GB)
EBS-Optimized Available
Network Performance
t2.micro
Variable
1
1
EBS only
-
Low to Moderate
Security Groups
Edit security groups
Security group name
launch-wizard-1
Description
launch-wizard-1 created 2020-08-18T17:31:22.184+05:30
Type
Protocol
Port Range
Source
Description
All traffic
All
All
0.0.0.0/0
Cancel
Previous
Launch
Feedback
English (US)
Privacy Policy
Terms of Use
Type here to search

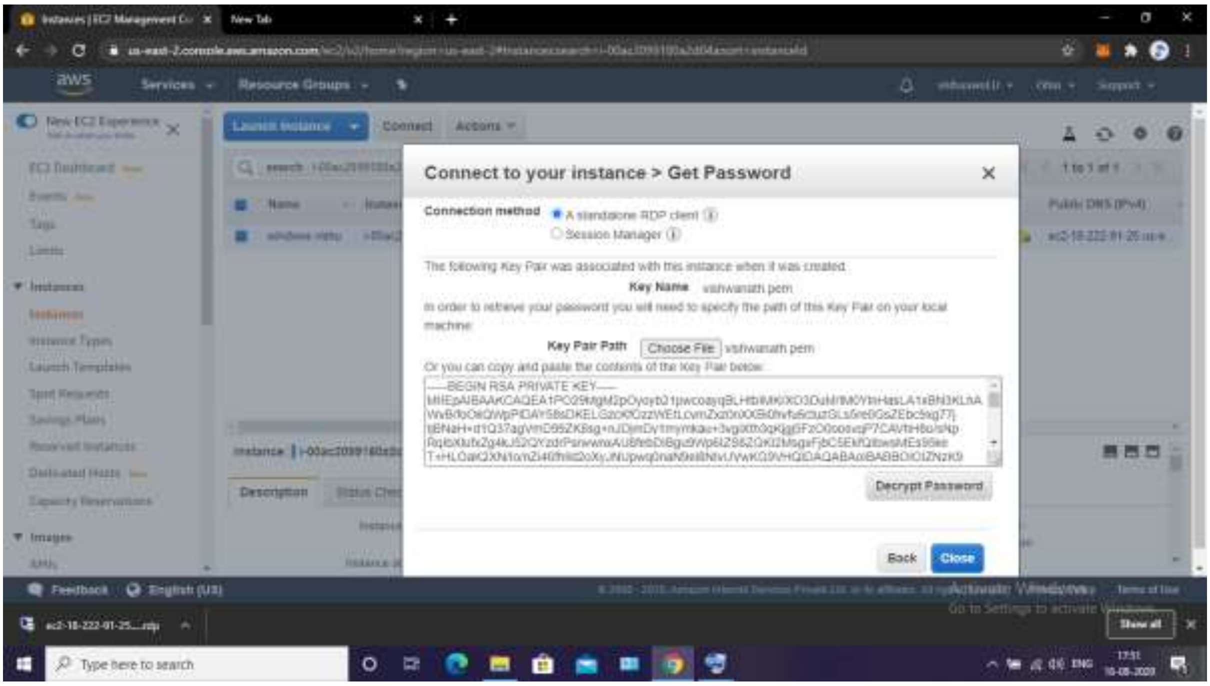

Launch instance wizard | EC2 M...
New Tab
aws
Services
Resource Groups
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 7: Review Instance Launch
All traffic
All
All
0.0.0.0/0
Instance Details
Edit instance details
Number of instances 1
Purchasing option On demand
Network vpc-05e8da6e
Subnet No preference (default subnet in any Availability Zone)
EBS-optimized No
Monitoring No
Termination protection Yes
Shutdown behavior Stop
Stop - Hibernate behavior Disabled
Capacity Reservation open
IAM role None
Domain join directory None
Tenancy default
T2/T3 Unlimited Disabled
Host ID
Host resource group name
Affinity Off
Metadata accessible Enabled
Metadata version V1 and V2 (token optional)
Metadata token response hop limit 1
Cancel
Previous
Launch
Feedback
English (US)
Privacy Policy
Terms of Use
Type here to search

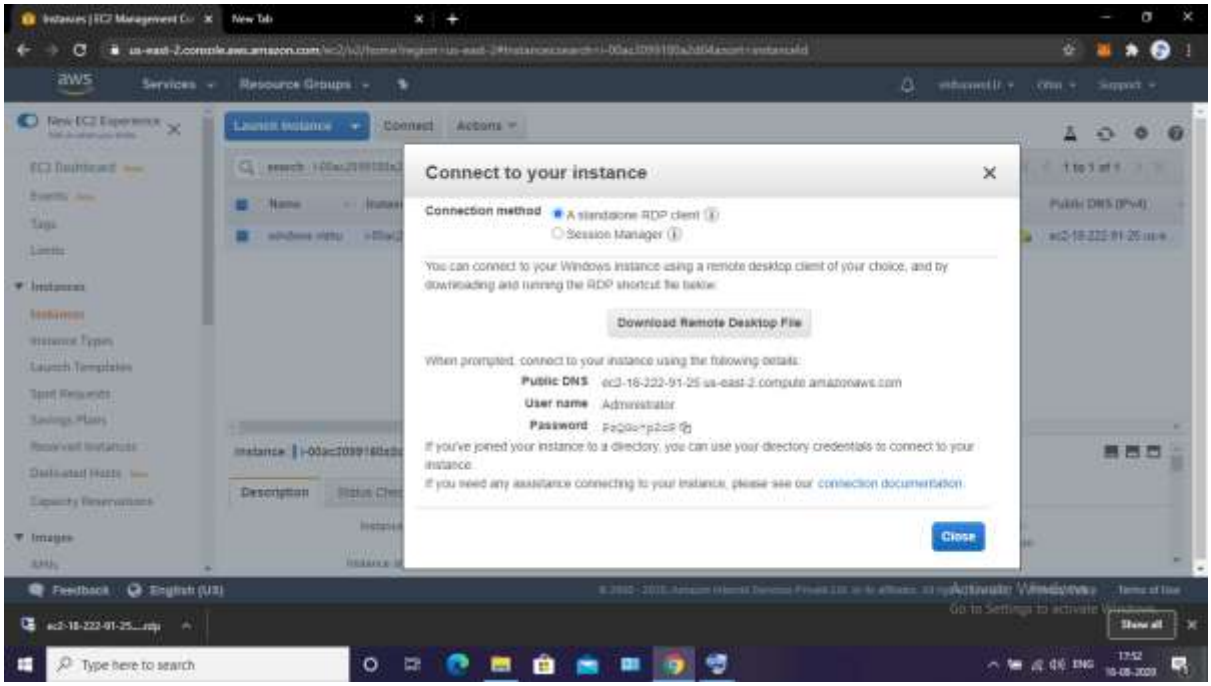


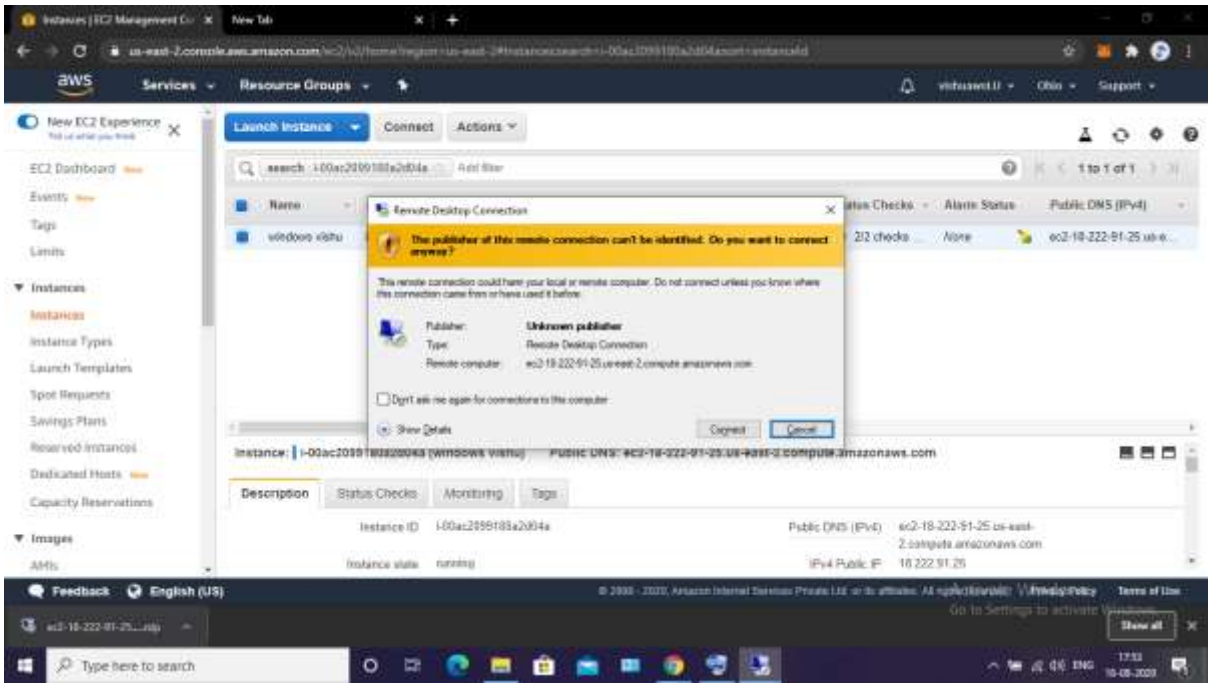
Task 2 :Launch the Windows instance using RDP

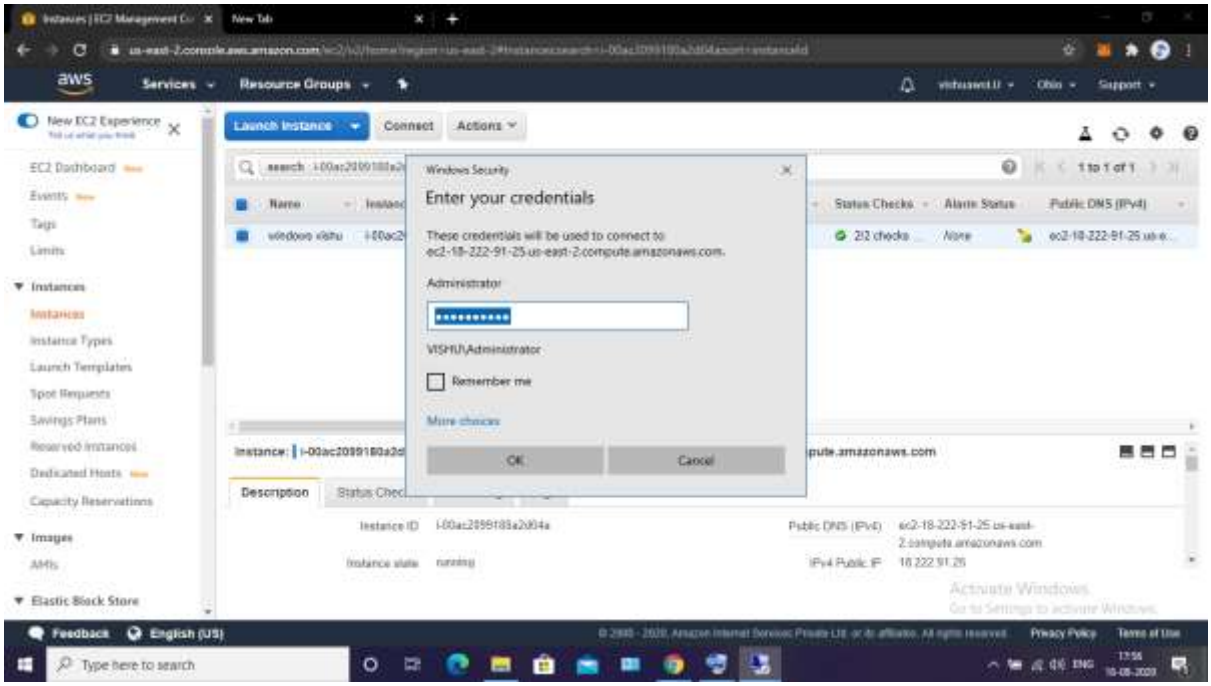


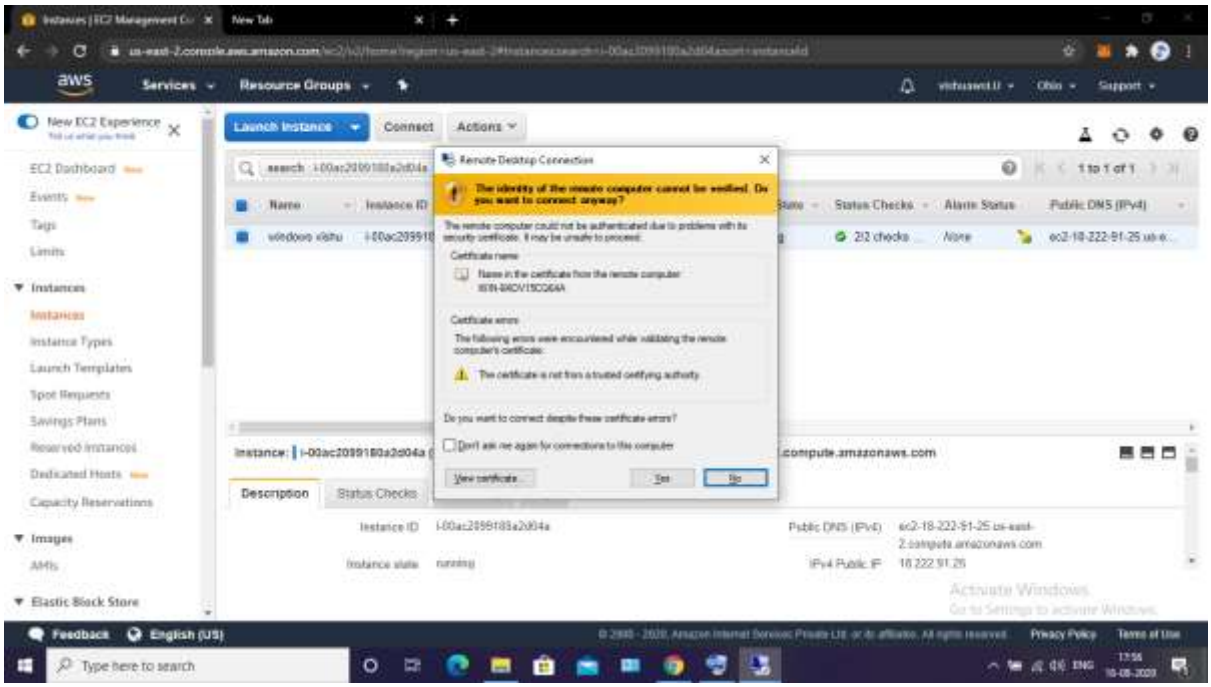

Launch Instance
Connect
Actions
New EC2 Experience
EC2 Dashboard
Events
Tags
Limits
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
Elastic Block Store
Name
Instance ID
Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Public DNS (IPv4)
windows vishu
t2.micro
running
2/2 checks
None
Description
Status Checks
Monitoring
Tags
Instance ID
Instance state
Public DNS (IPv4)
IPv4 Public IP
Feedback
English (US)
Privacy Policy
Terms of Use
Type here to search


Connect to your instance > Get Password
Connection method
A standalone RDP client
Session Manager
The following Key Pair was associated with this instance when it was created.
Key Name
In order to retrieve your password you will need to specify the path of this Key Pair on your local machine:
Key Pair Path
Choose File
Or you can copy and paste the contents of the Key Pair below:
-----BEGIN RSA PRIVATE KEY-----
Decrypt Password
Back
Close
Feedback
English (US)
Type here to search

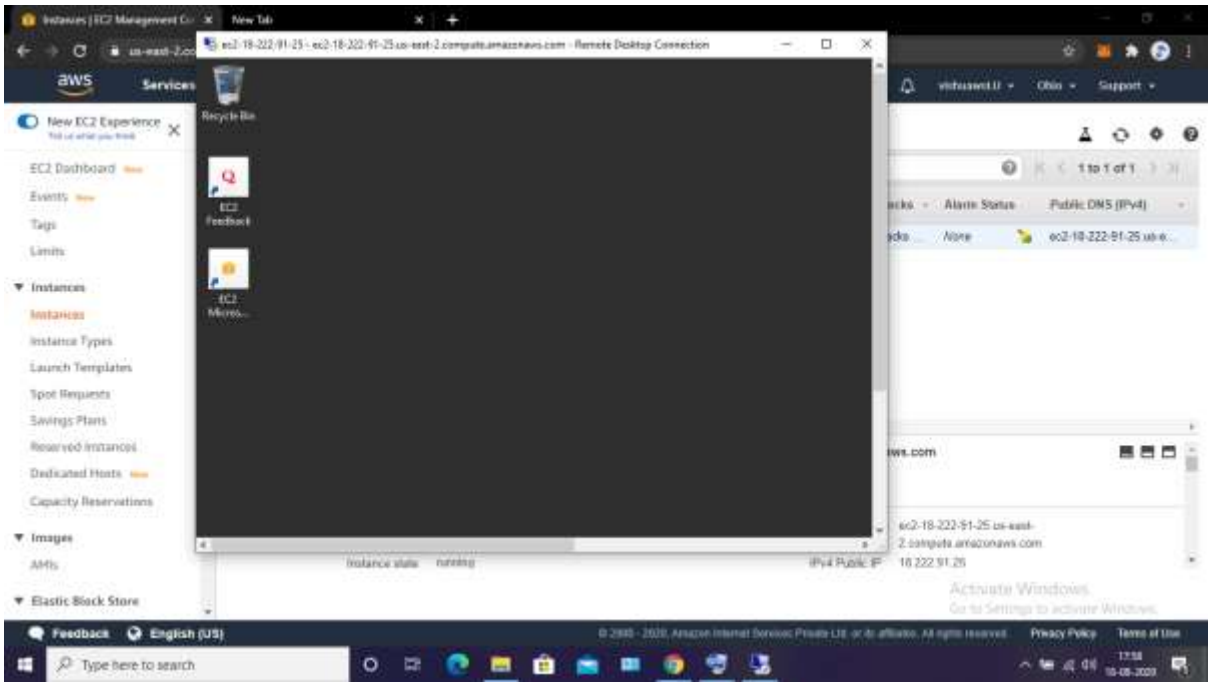

Connect to your instance
Connection method
A standalone RDP client
Session Manager
You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below.
Download Remote Desktop File
When prompted, connect to your instance using the following details:
Public DNS
User name
Administrator
Password
If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.
If you need any assistance connecting to your instance, please see our connection documentation.
Close

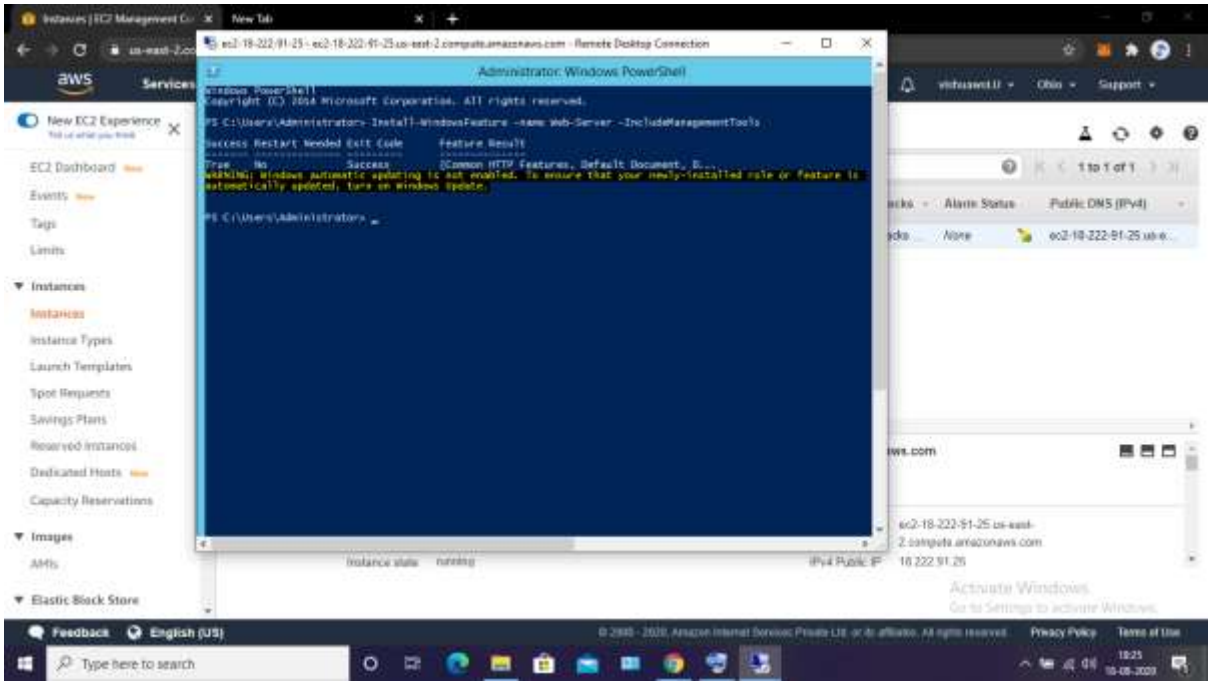

Remote Desktop Connection
The publisher of this remote connection can't be identified. Do you want to connect anyway?
Publisher:
Unknown publisher
Type:
Remote Desktop Connection
Remote computer:
Don't ask me again for connections to this computer
Show Details
Connect
Cancel
Description
Status Checks
Monitoring
Tags


Windows Security
Enter your credentials
These credentials will be used to connect to ec2-18-222-91-25.us-east-2.compute.amazonaws.com.
Administrator
VISHU\Administrator
Remember me
More choices
OK
Cancel

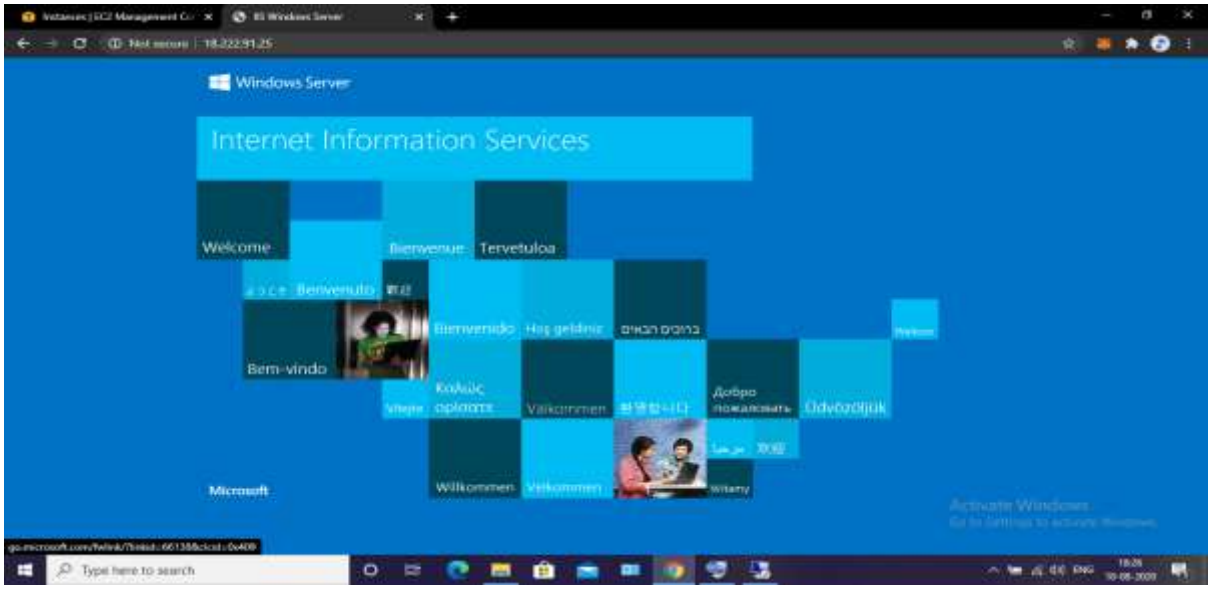

Remote Desktop Connection
The identity of the remote computer cannot be verified. Do you want to connect anyway?
The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed.
Certificate name
Certificate errors
The following errors were encountered while validating the remote computer's certificate:
The certificate is not from a trusted certifying authority.
Do you want to connect despite these certificate errors?
Don't ask me again for connections to this computer
View certificate
Yes
No

Task3:Install IIS web server using Powershell ISE





Task4:Verify successful installation of IIS Web Server

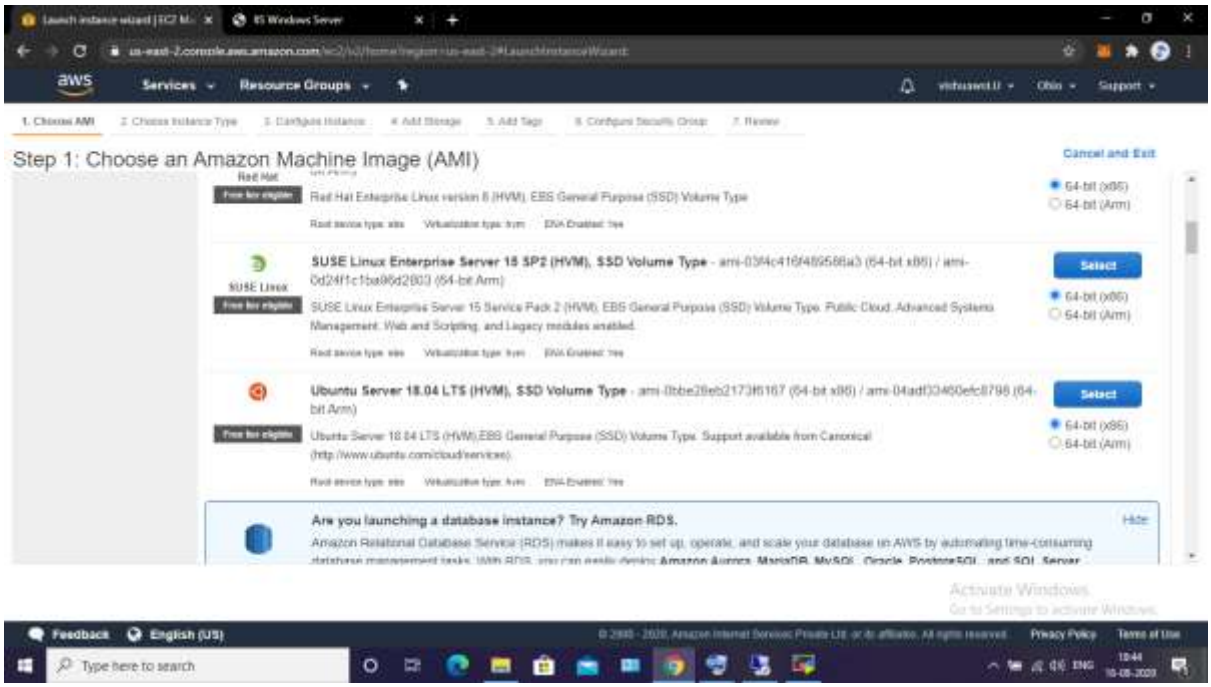


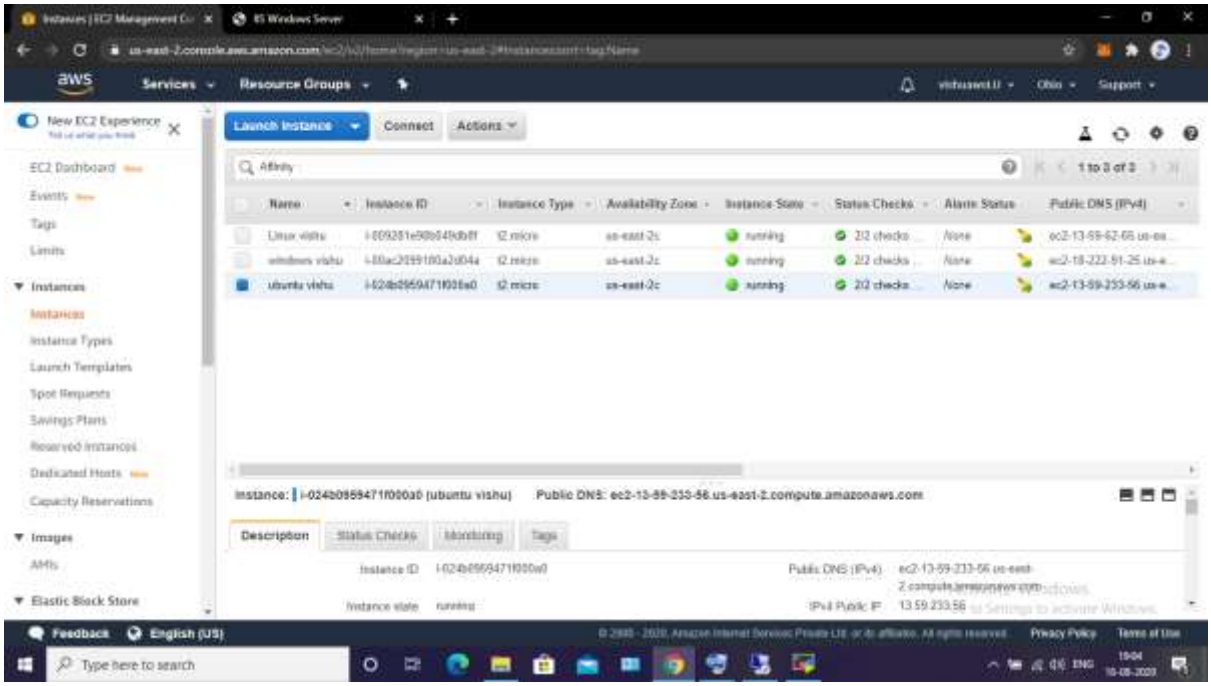
PROJECT 2:

Deploying a web server in Windows instance

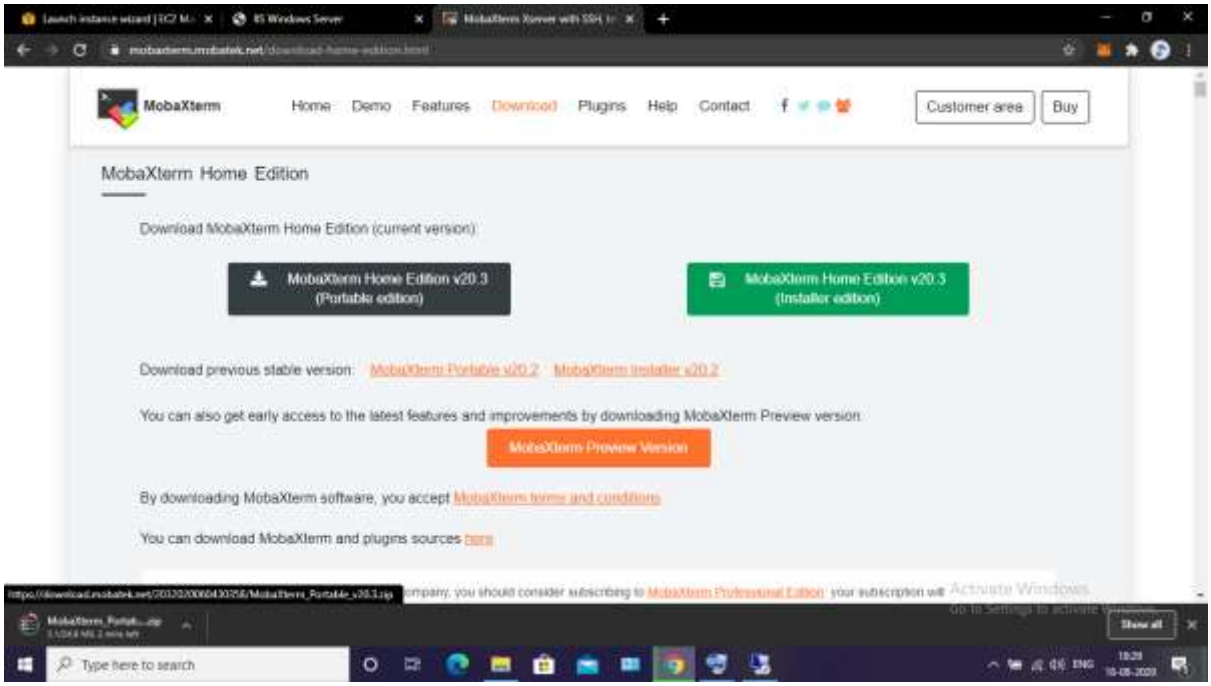
Ubuntu Server 18.04 LTS (HVM)

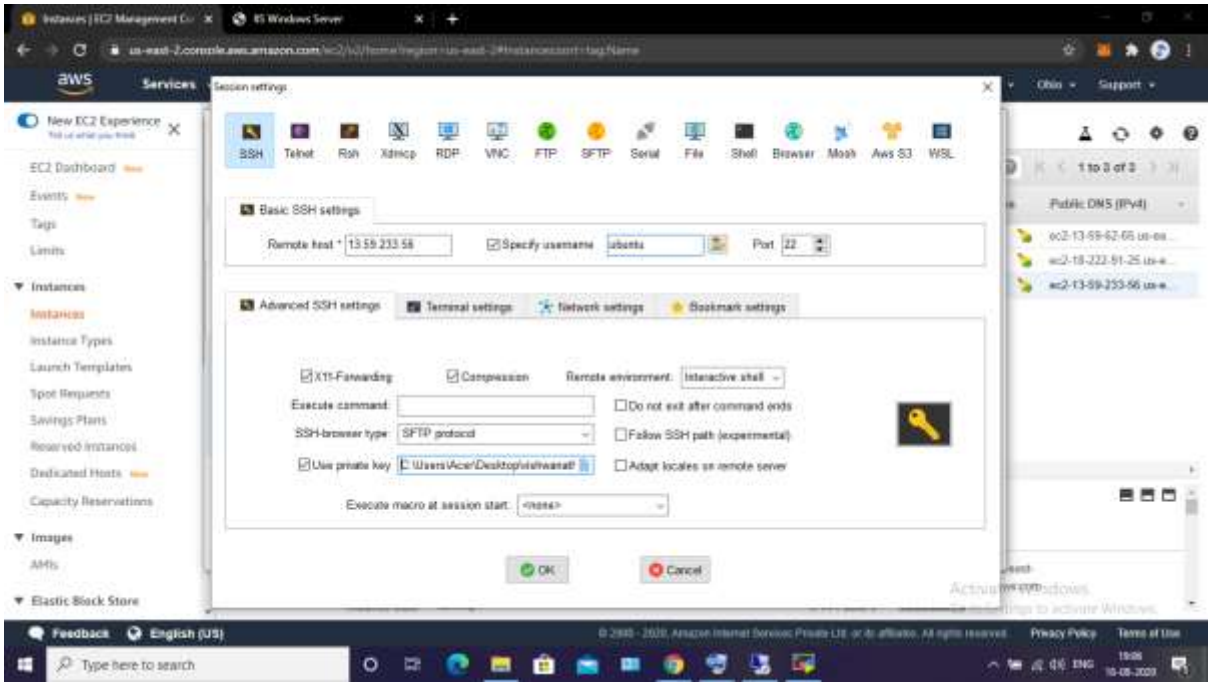
Task1:Create a windows instance using AMI :Ubuntu Server 18.04 LTS (HVM)



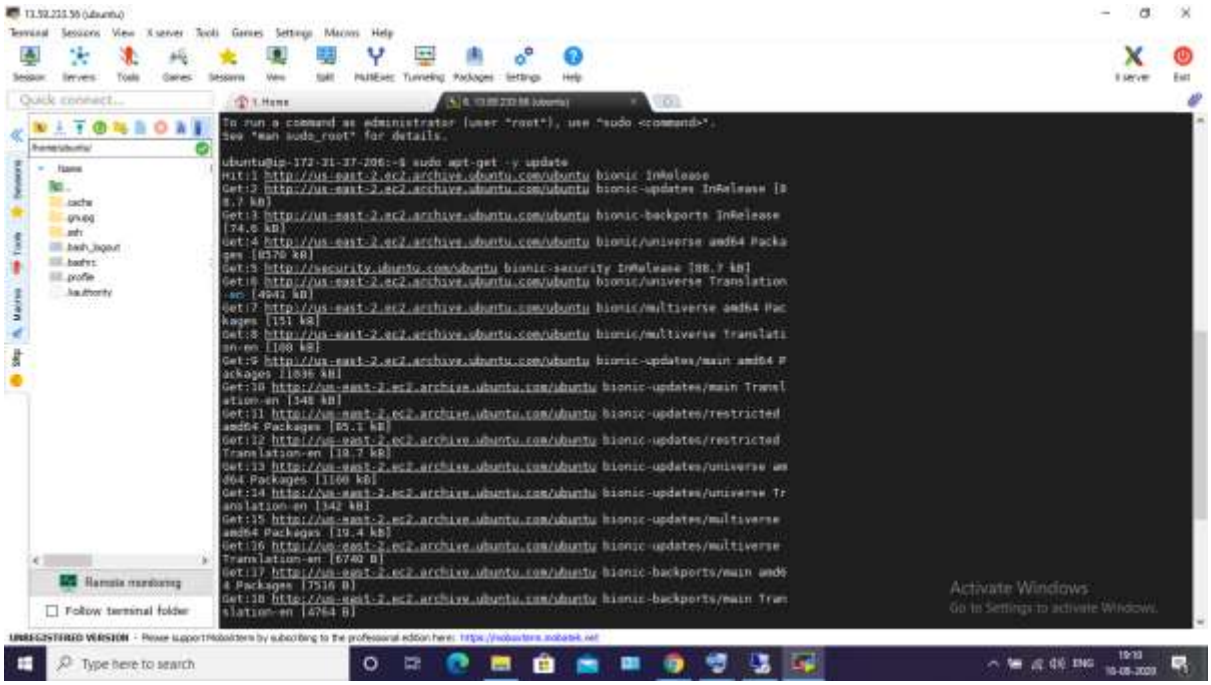


Task2:Download and install MobaXterm Portable Edition





Task3:Install ngnix web server using bash



Task4:Verify successful installation of ngnix