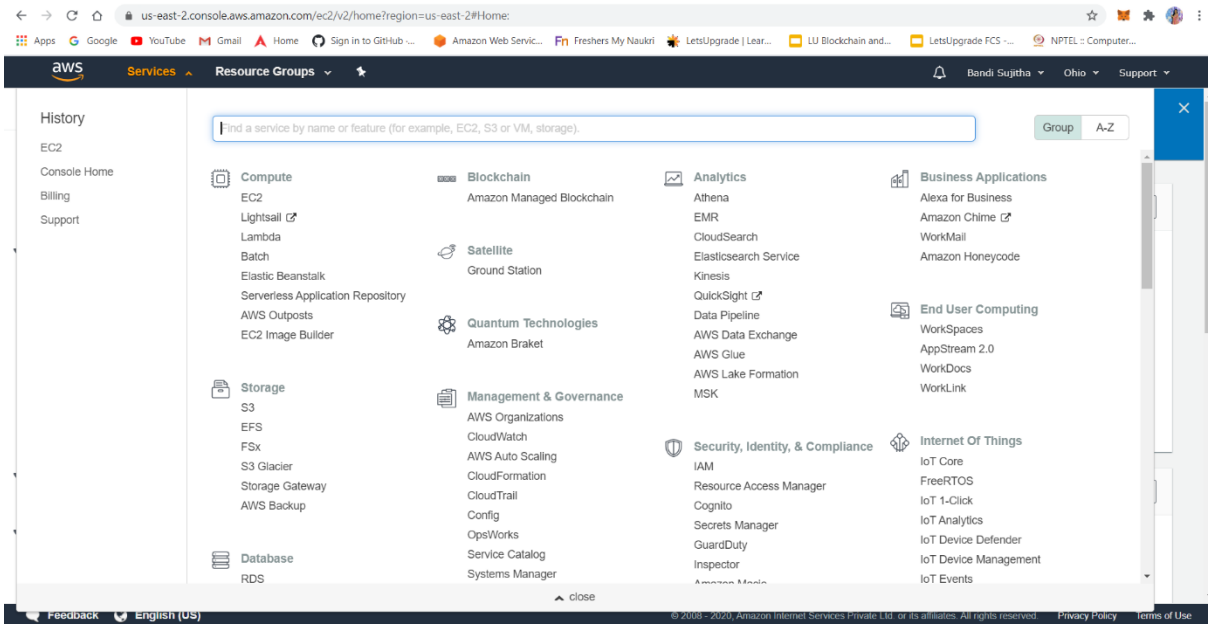
AWS Project

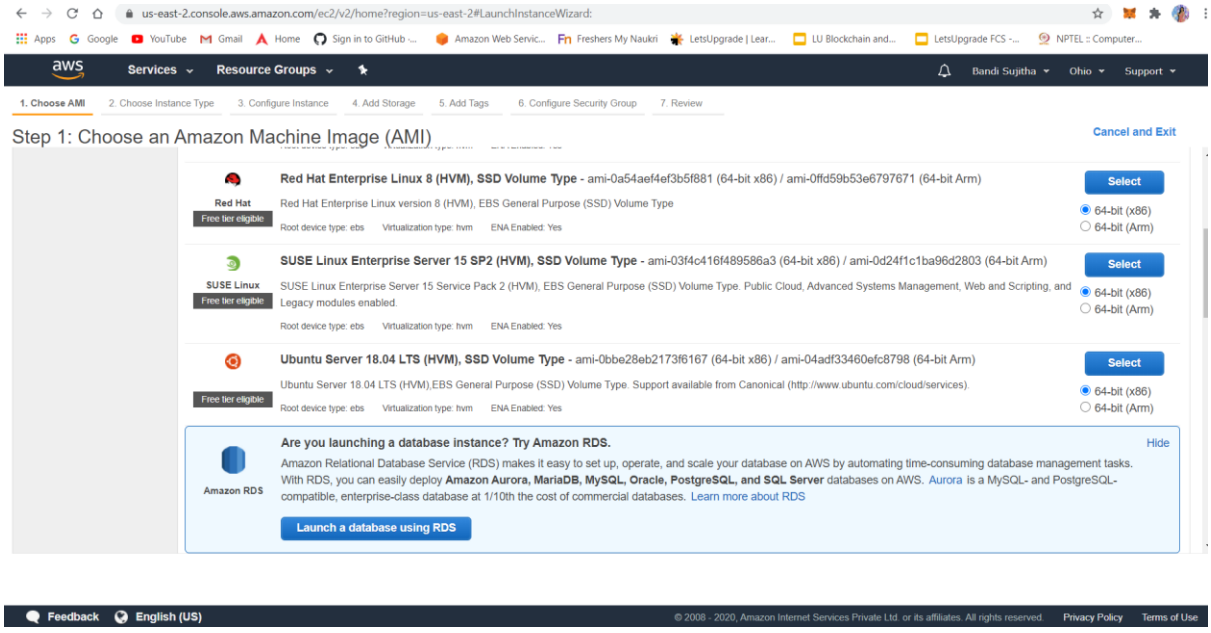
PROJECT 1:

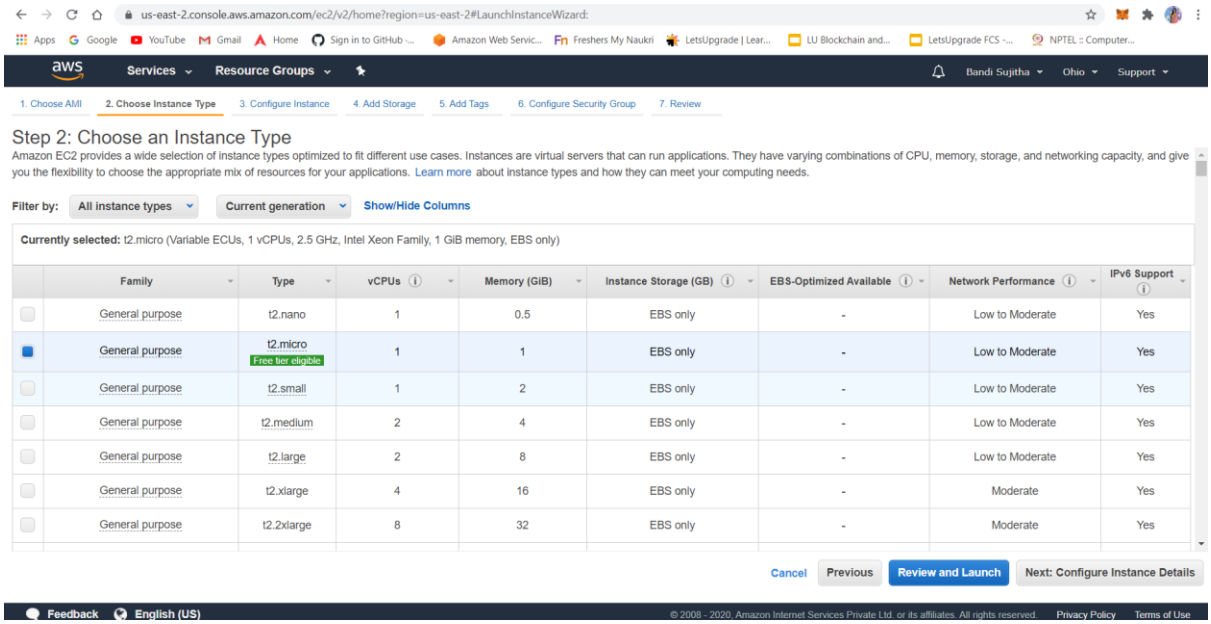
Deploying a web server in Windows instance:

Windows 2012 R2 base:



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




us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
Resource Groups
Bandi Sujitha
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 (GB)
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
General purpose
t2.xlarge
4
16
EBS only
-
Moderate
Yes
General purpose
t2.2xlarge
8
32
EBS only
-
Moderate
Yes
Cancel
Previous
Review and Launch
Next: Configure Instance Details
Feedback
English (US)
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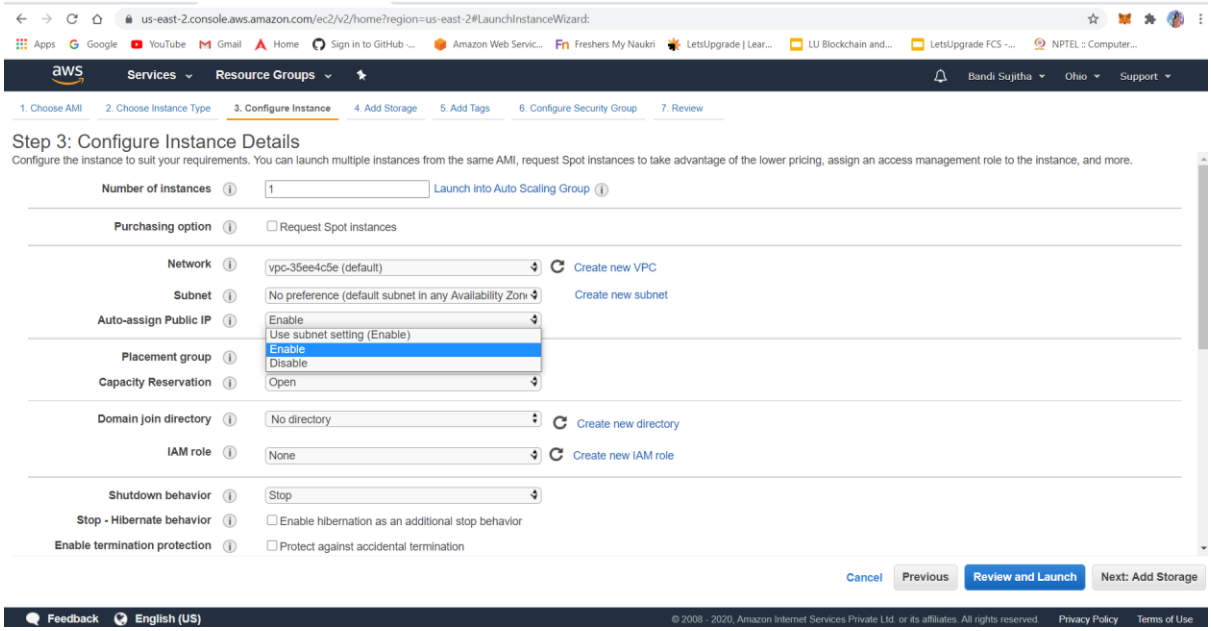
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
Resource Groups
Bandi Sujitha
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7. Review
Step 3: Configure Instance Details
Configure the instance to suit your requirements. You can launch multiple instances 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-35ee4c5e (default)
Create new VPC
Subnet
No preference (default subnet in any Availability Zone
Create new subnet
Auto-assign Public IP
Enable
Use subnet setting (Enable)
Enable
Disable
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
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
English (US)
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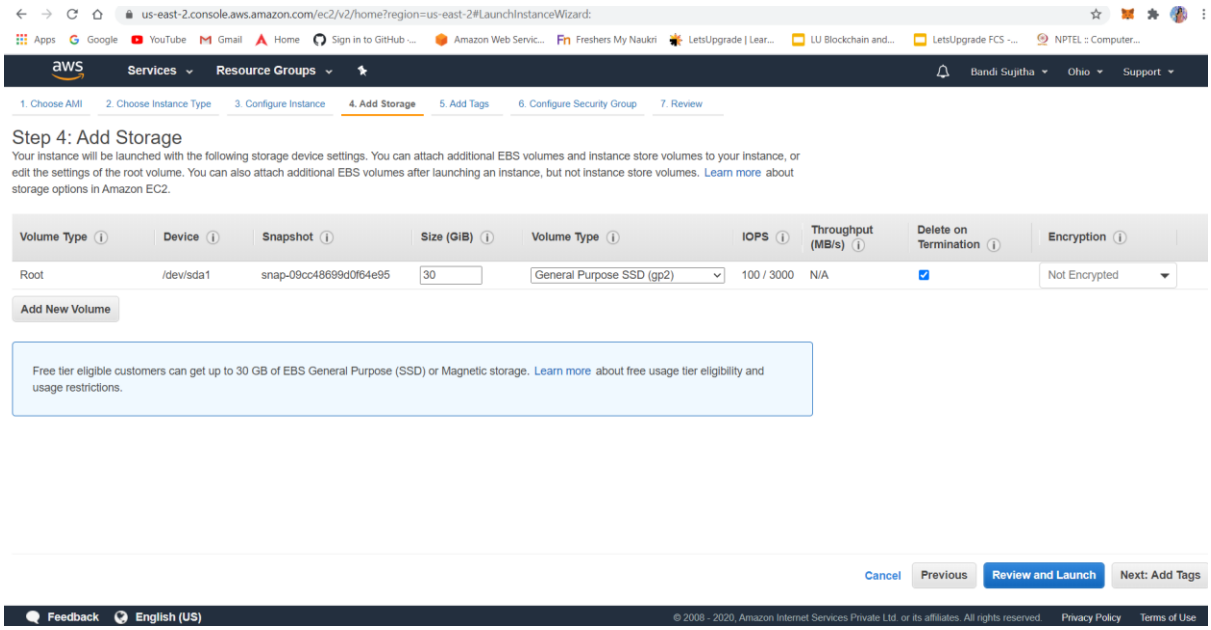
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
Resource Groups
Bandi Sujitha
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Support
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7. Review
Step 4: Add Storage
Your instance will be launched with 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-09cc48699d0f64e95
30
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
Feedback
English (US)
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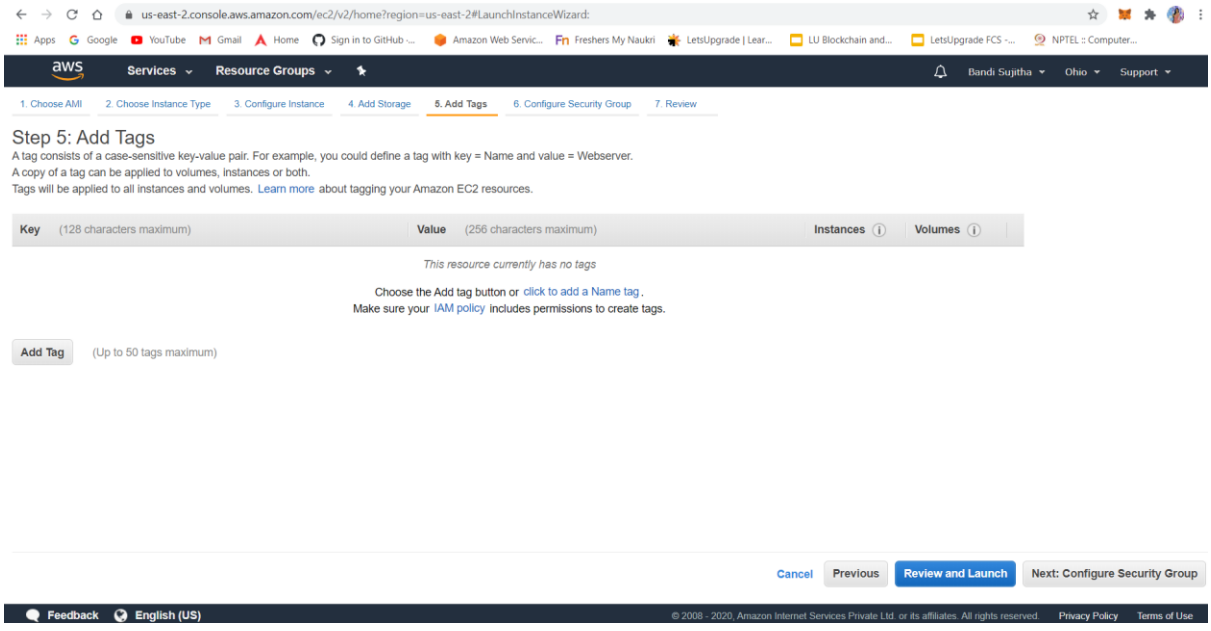
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
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Bandi Sujitha
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1. Choose AMI
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5. Add Tags
6. Configure 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
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
Review and Launch
Next: Configure Security Group
Feedback
English (US)
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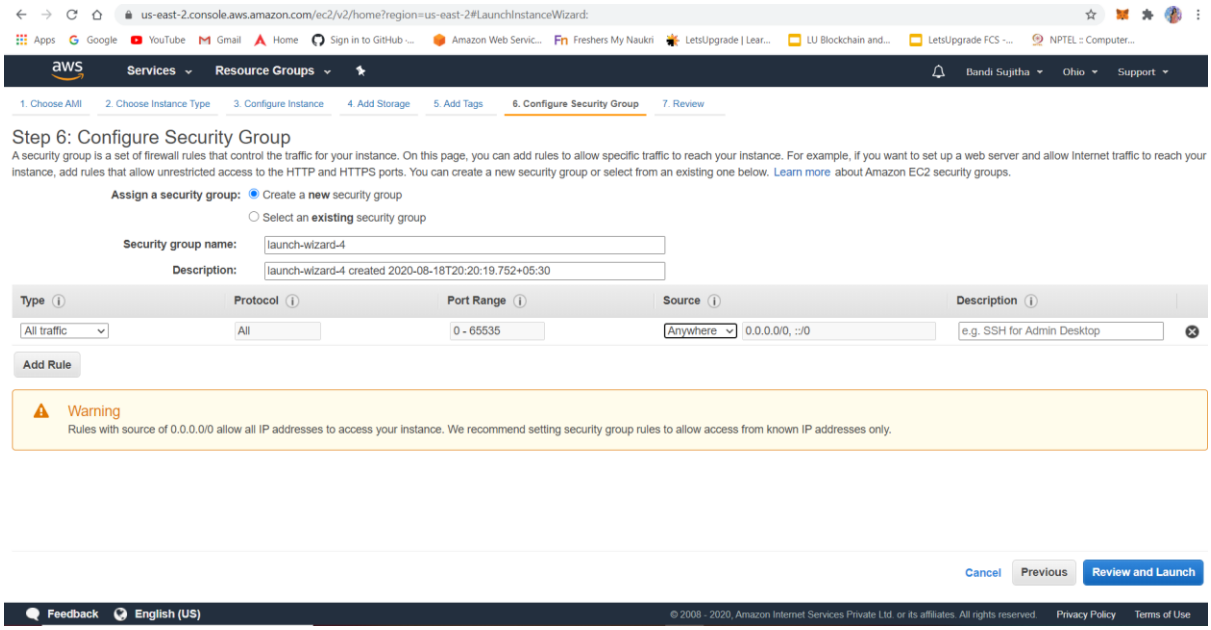
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
Resource Groups
Bandi Sujitha
Ohio
Support
1. Choose AMI
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3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 6: Configure 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-4
Description: launch-wizard-4 created 2020-08-18T20:20:19.752+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)
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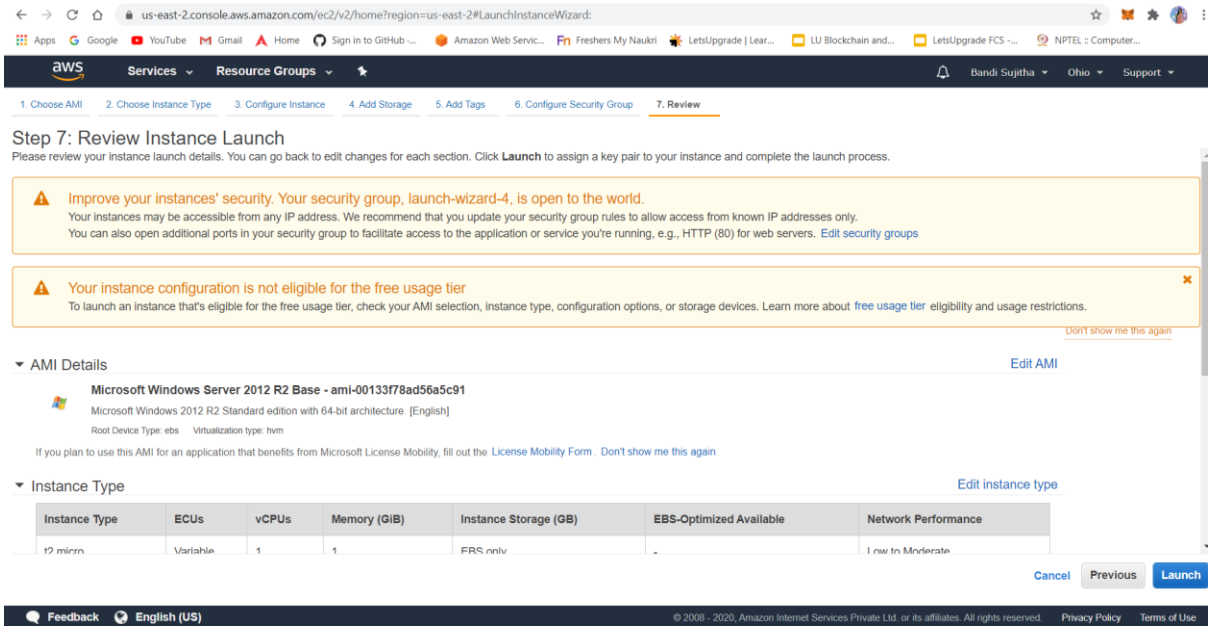
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
Resource Groups
Bandi Sujitha
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 7: Review Instance Launch
Please review 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-4, 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.
Don't show me this again
AMI Details
Edit AMI
Microsoft Windows Server 2012 R2 Base - ami-00133f78ad56a5c91
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
Root Device Type: ebs
Virtualization type: hvm
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
Cancel
Previous
Launch
Feedback
English (US)
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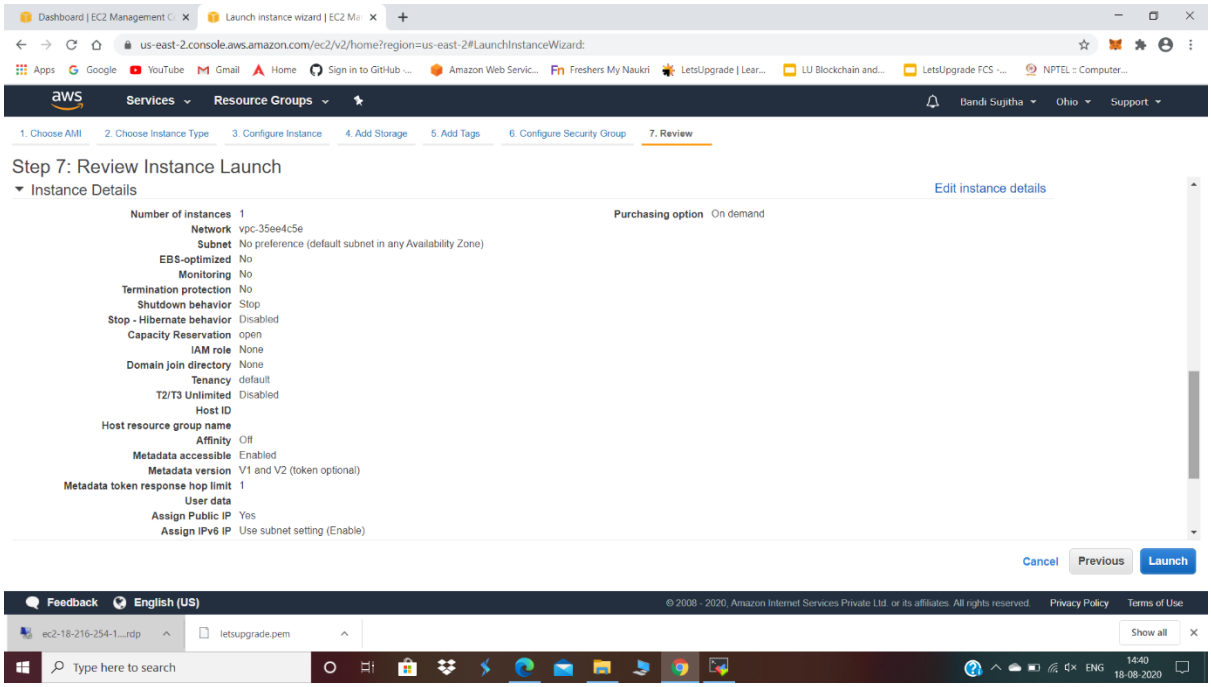
Dashboard | EC2 Management
Launch instance wizard | EC2 Ma
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
Resource Groups
Bandi Sujitha
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 7: Review Instance Launch
Instance Details
Edit instance details
Number of instances 1
Network vpc-35ee4c5e
Subnet No preference (default subnet in any Availability Zone)
EBS-optimized No
Monitoring No
Termination protection No
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
User data
Assign Public IP Yes
Assign IPv6 IP Use subnet setting (Enable)
Purchasing option On demand
Cancel
Previous
Launch
Feedback
English (US)
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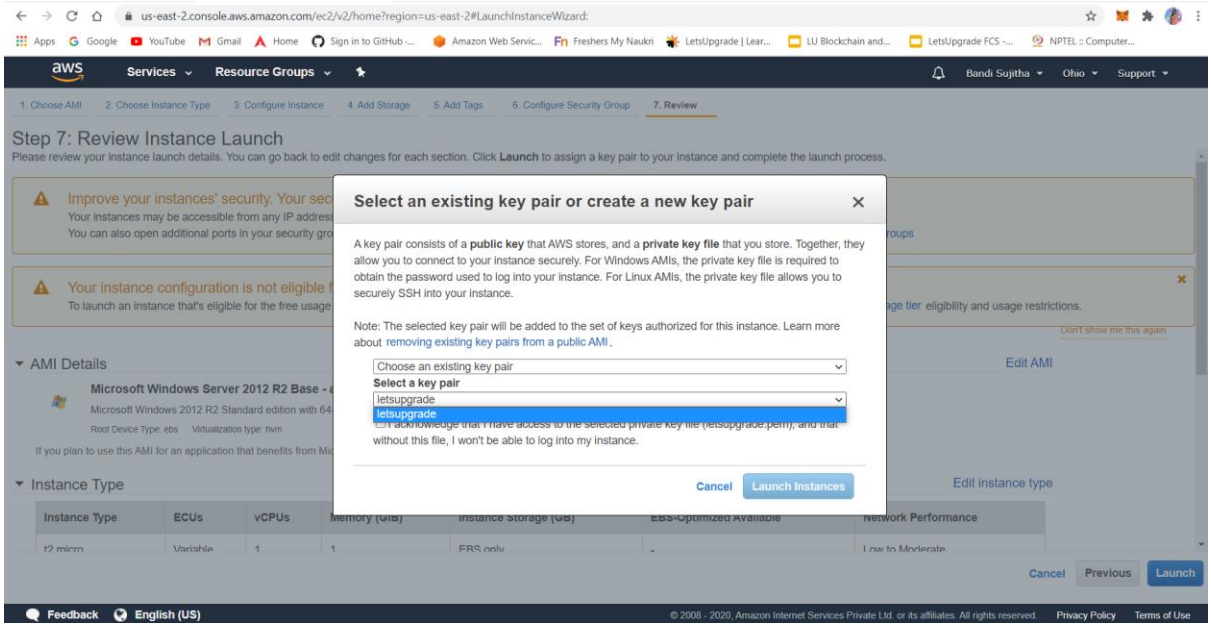
ec2-18-216-254-1....rdp
letsupgrade.pem
Show all
Type here to search
ENG
14:40
18-08-2020


us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
Resource Groups
Bandi Sujitha
Ohio
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.
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
letsupgrade
letsupgrade
without this file, I won't be able to log into my instance.
Cancel
Launch Instances
AMI Details
Edit AMI
Microsoft Windows Server 2012 R2 Base
Instance Type
Edit instance type
Instance Type
ECUs
vCPUs
Network Performance
Cancel
Previous
Launch
Feedback
English (US)
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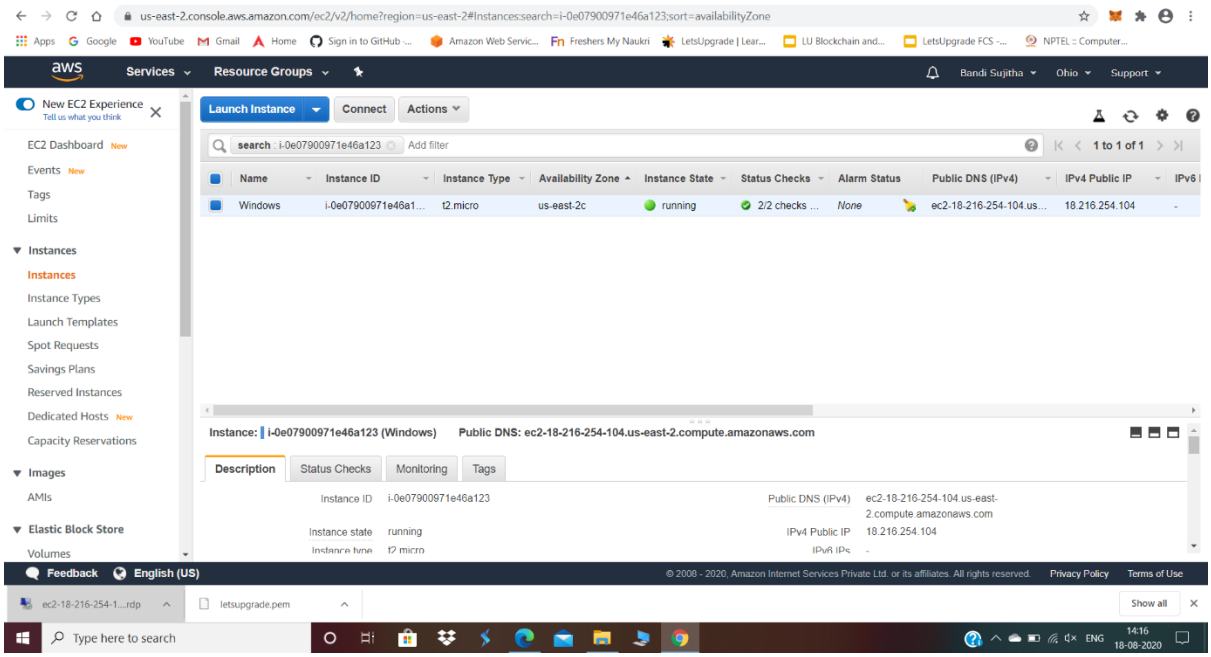
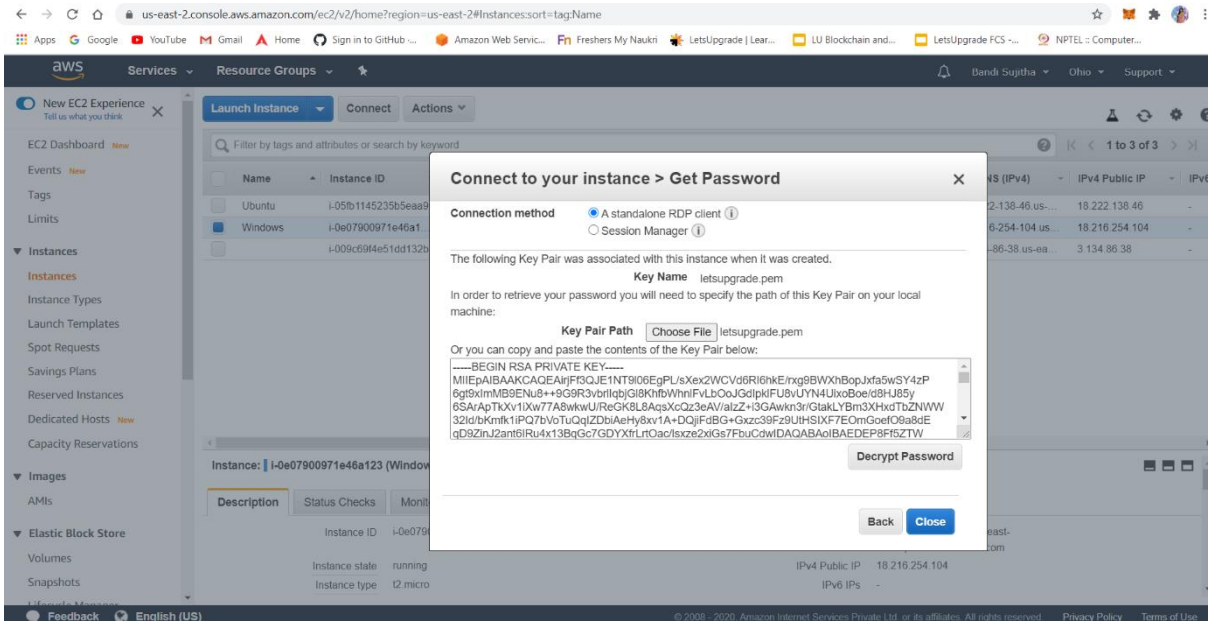
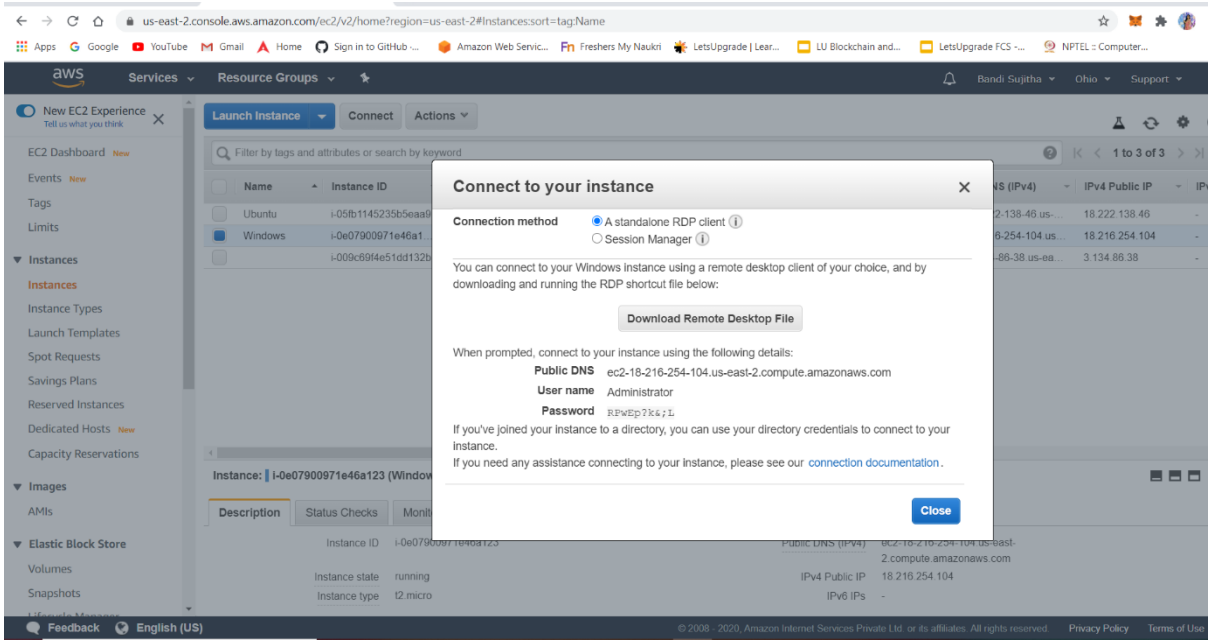
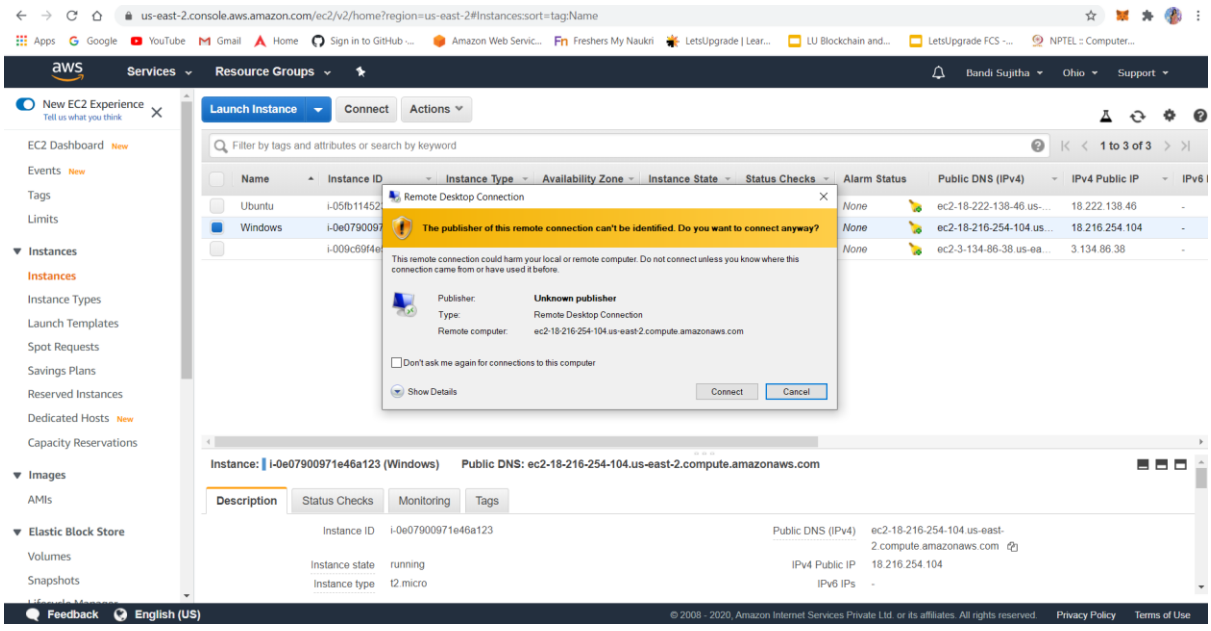
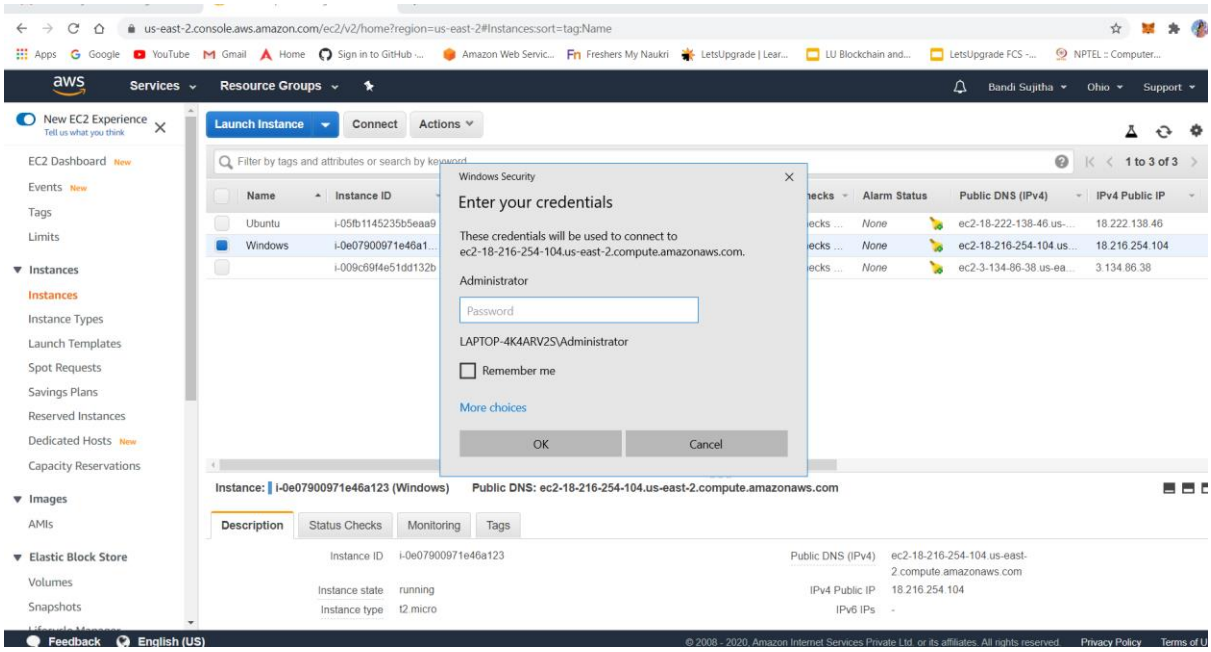
Task 2 :Launch the Windows instance using RDP






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 ec2-18-216-254-104.us-east-2.compute.amazonaws.com
User name Administrator
Password RPwEp?k&;L
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?
This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.
Publisher: Unknown publisher
Type: Remote Desktop Connection
Remote computer: ec2-18-216-254-104.us-east-2.compute.amazonaws.com
Don't ask me again for connections to this computer
Show Details
Connect
Cancel


us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:sort=tag:Name
Services
Resource Groups
Bandi Sujitha
Ohio
Support
New EC2 Experience
Launch Instance
Connect
Actions
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
Volumes
Snapshots
Windows Security
Enter your credentials
These credentials will be used to connect to ec2-18-216-254-104.us-east-2.compute.amazonaws.com.
Administrator
Password
LAPTOP-4K4ARV2S\Administrator
Remember me
More choices
OK
Cancel
Name
Instance ID
Alarm Status
Public DNS (IPv4)
IPv4 Public IP
Ubuntu
i-05fb1145235b5eaa9
None
ec2-18-222-138-46.us-...
18.222.138.46
Windows
i-0e07900971e46a1...
None
ec2-18-216-254-104.us...
18.216.254.104
i-009c69f4e51dd132b
None
ec2-3-134-86-38.us-ea...
3.134.86.38
Instance: i-0e07900971e46a123 (Windows)
Public DNS: ec2-18-216-254-104.us-east-2.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-0e07900971e46a123
Instance state
running
Instance type
t2.micro
Public DNS (IPv4)
ec2-18-216-254-104.us-east-2.compute.amazonaws.com
IPv4 Public IP
18.216.254.104
IPv6 IPs
Feedback
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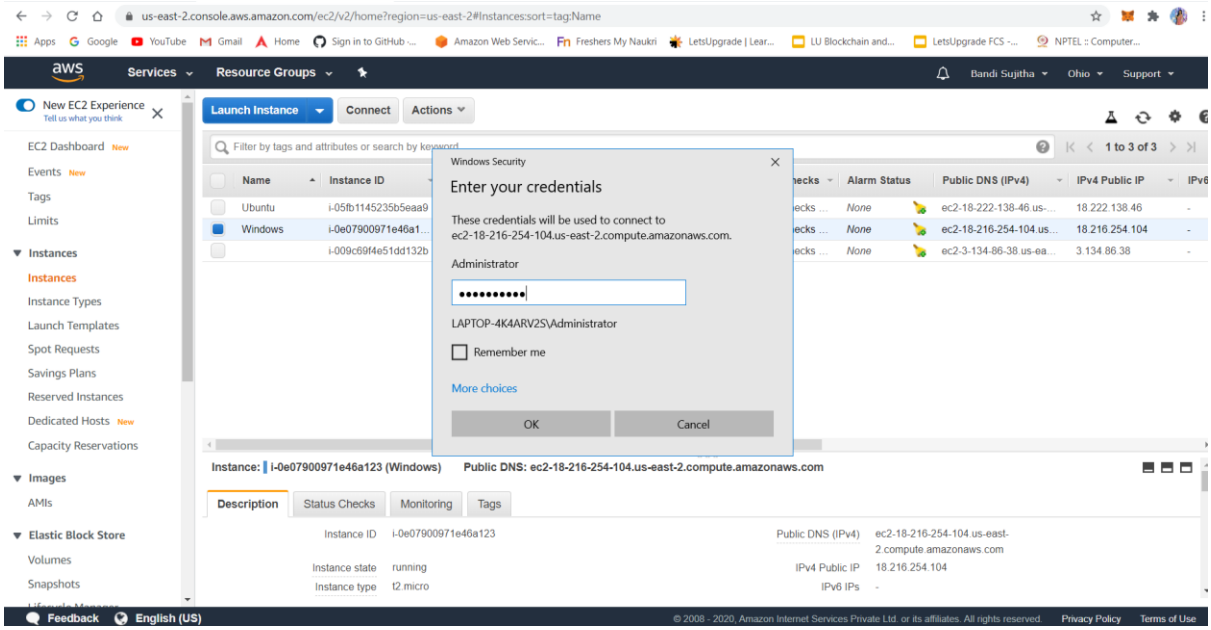
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:sort=tag:Name
Services
Resource Groups
Bandi Sujitha
Ohio
Support
New EC2 Experience
Launch Instance
Connect
Actions
Windows Security
Enter your credentials
These credentials will be used to connect to ec2-18-216-254-104.us-east-2.compute.amazonaws.com.
Administrator
LAPTOP-4K4ARV2S\Administrator
Remember me
More choices
OK
Cancel
Instance: i-0e07900971e46a123 (Windows)
Public DNS: ec2-18-216-254-104.us-east-2.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-0e07900971e46a123
Instance state
running
Instance type
t2.micro
Public DNS (IPv4)
ec2-18-216-254-104.us-east-2.compute.amazonaws.com
IPv4 Public IP
18.216.254.104
IPv6 IPs
Feedback
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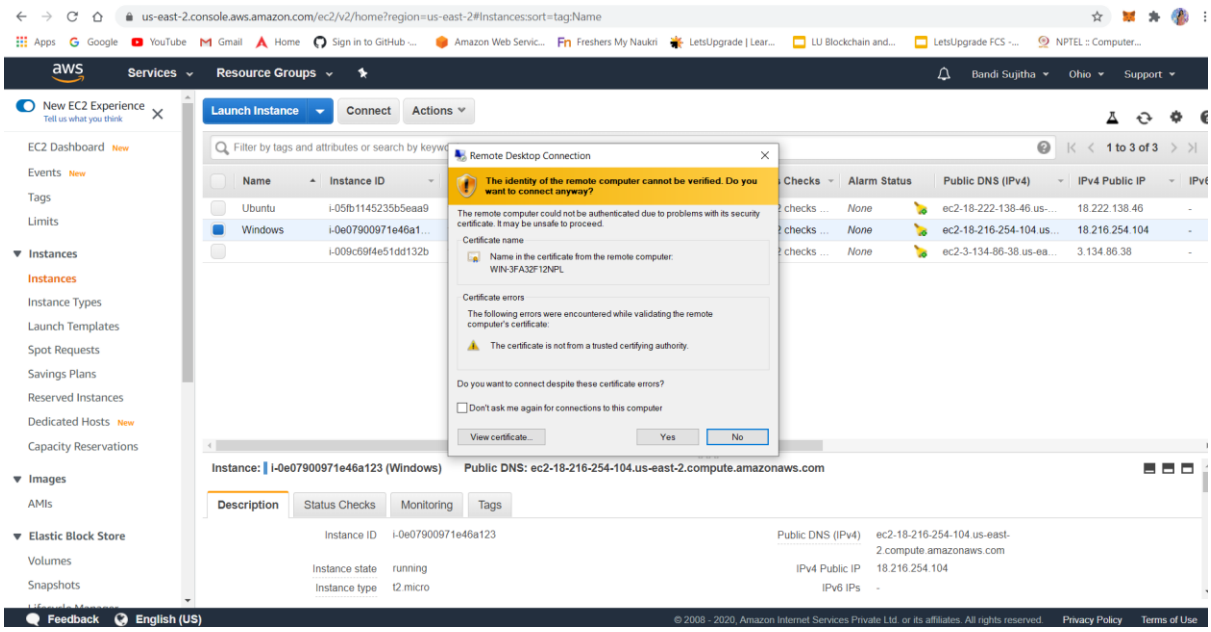
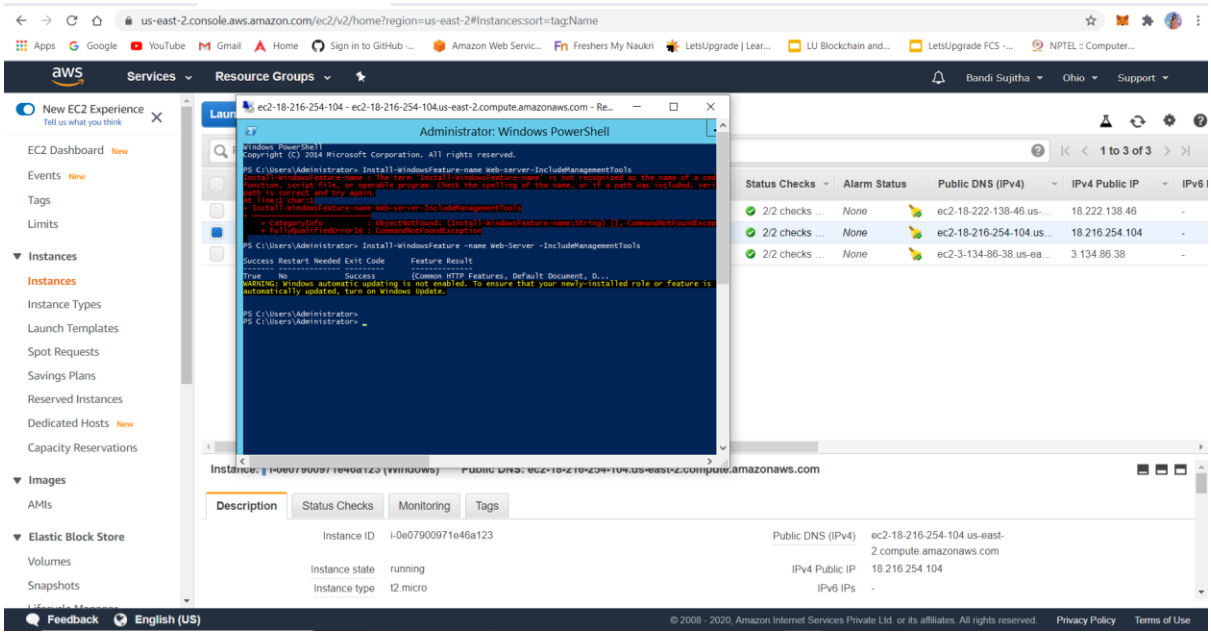
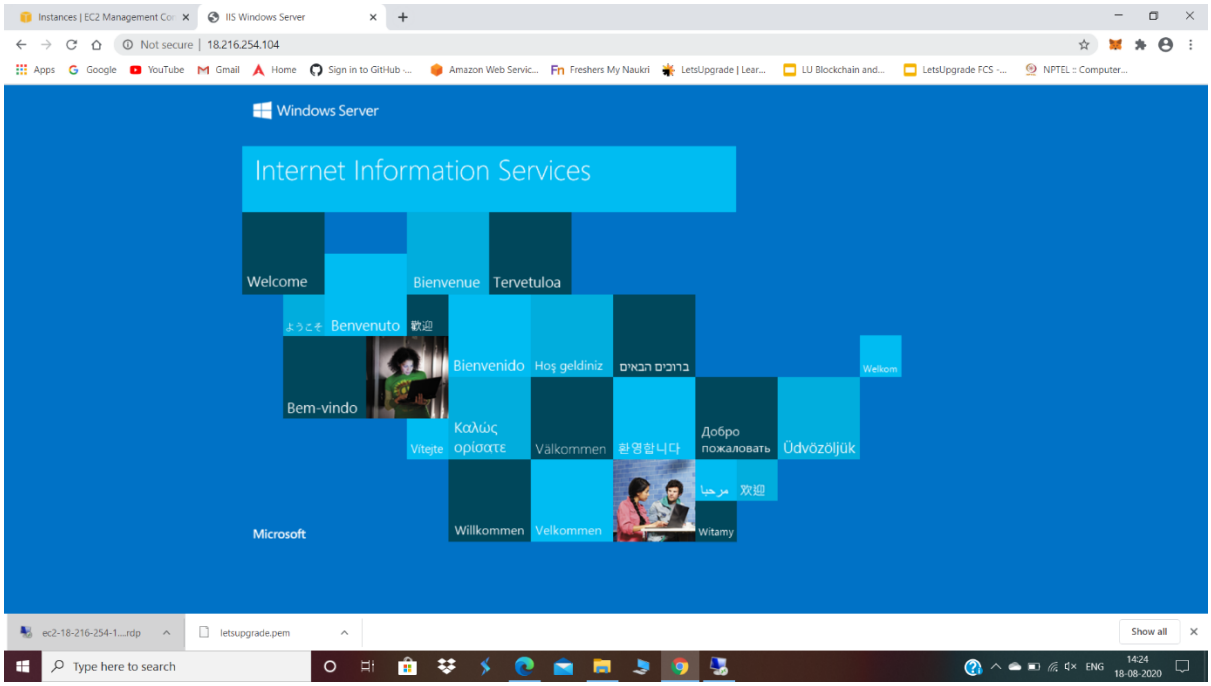


Task3:Install IIS web server using Powershell ISE



Task4:Verify successful installation of IIS Web Server

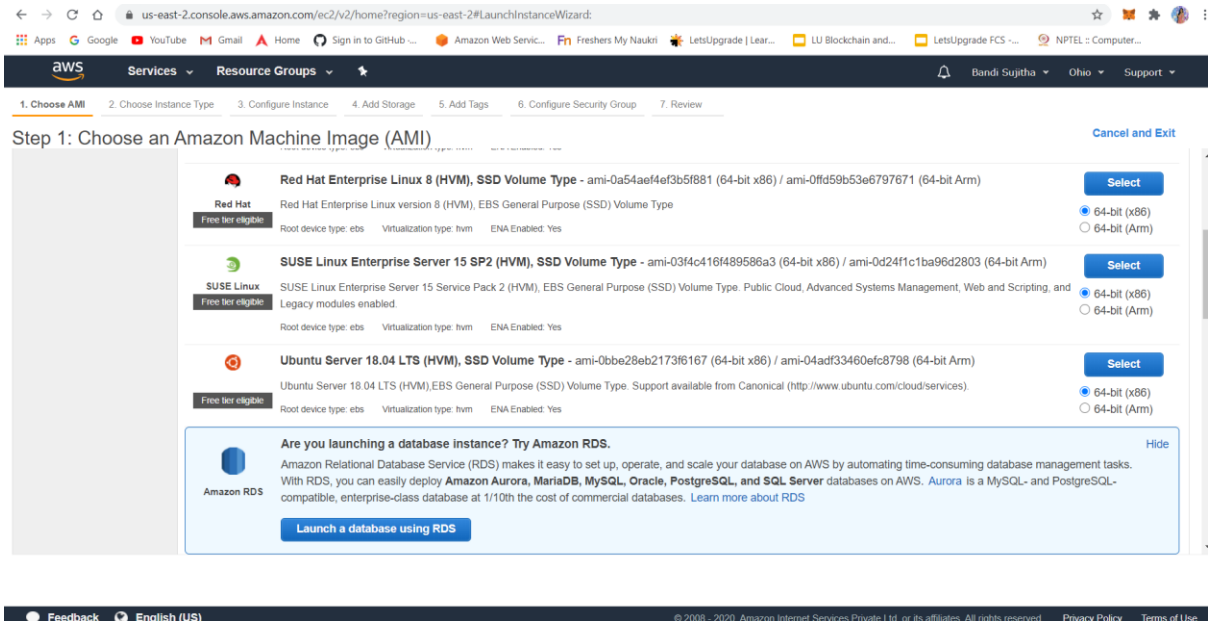


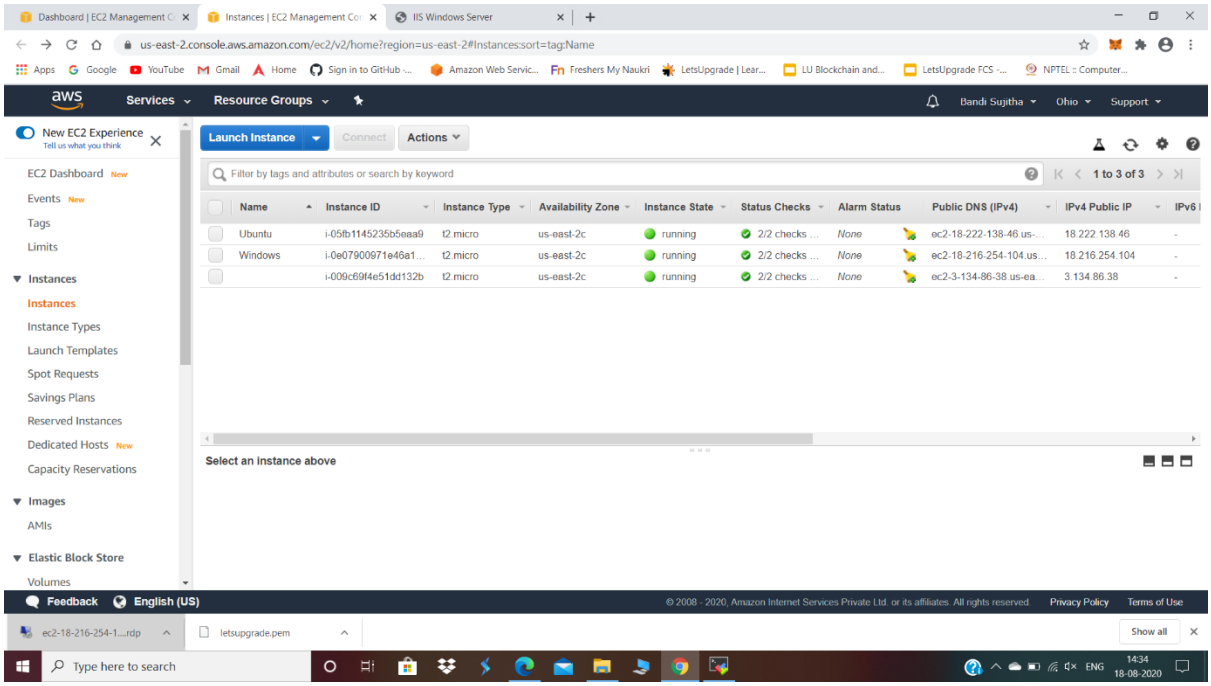
PROJECT 2:

Deploying a web server in Windows instance

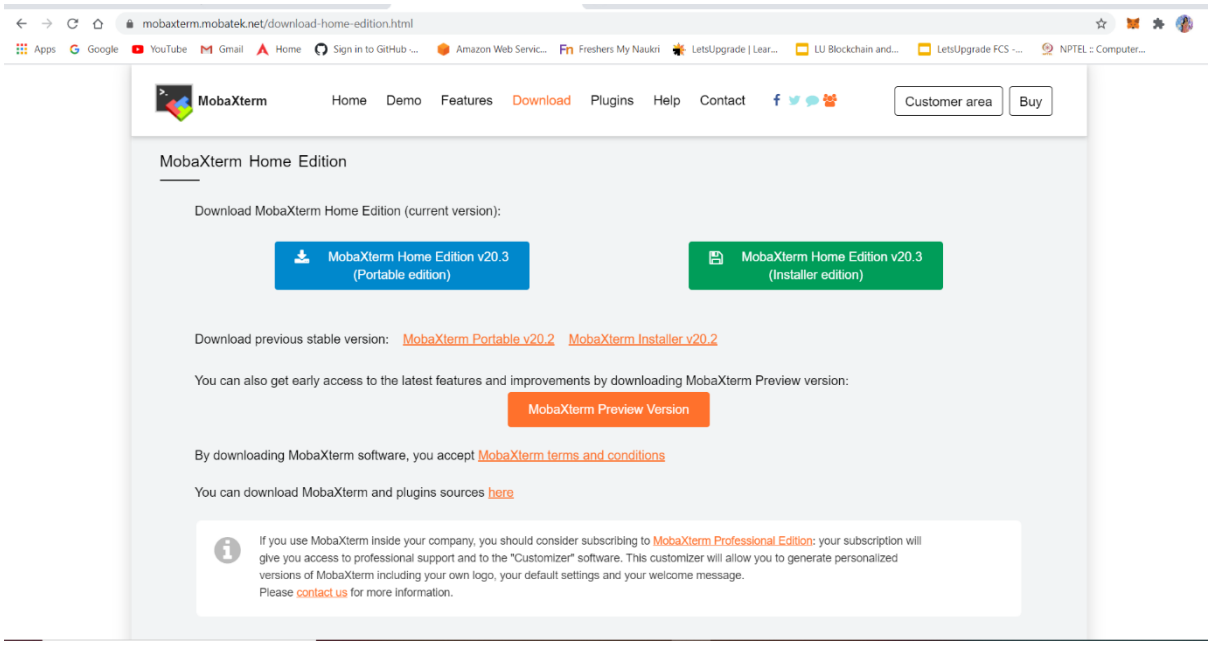
Ubuntu Server 18.04 LTS (HVM)

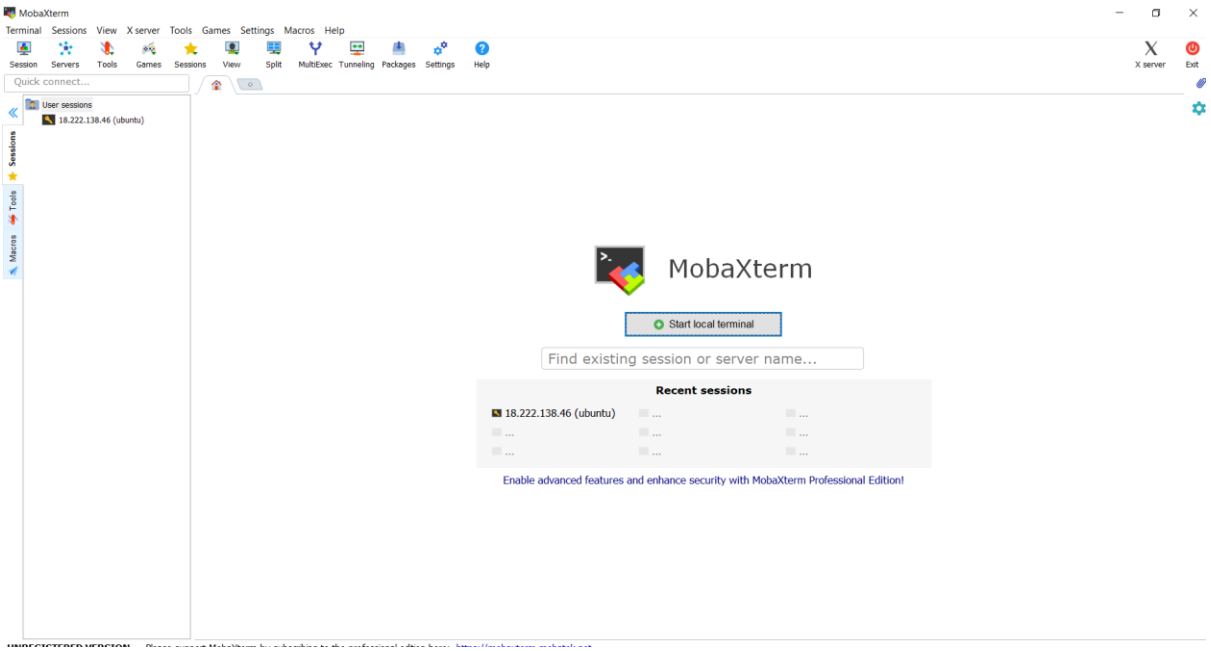
Task1: Create a windows instance using AMI :Ubuntu Server 18.04 LTS (HVM)

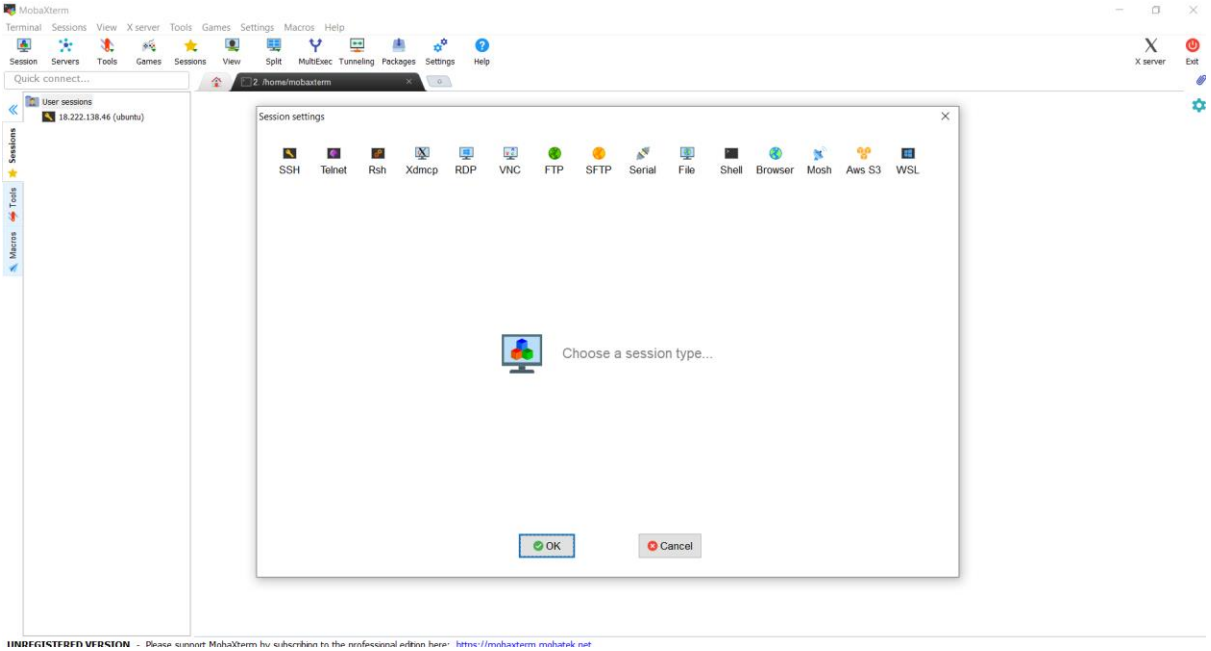


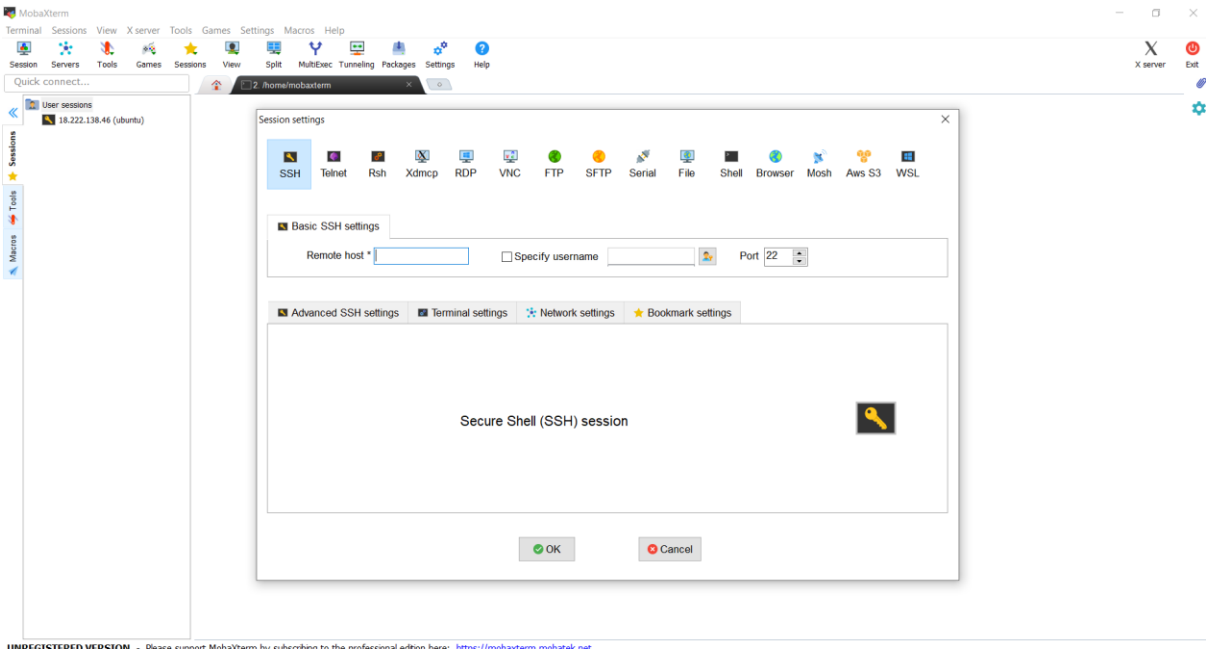


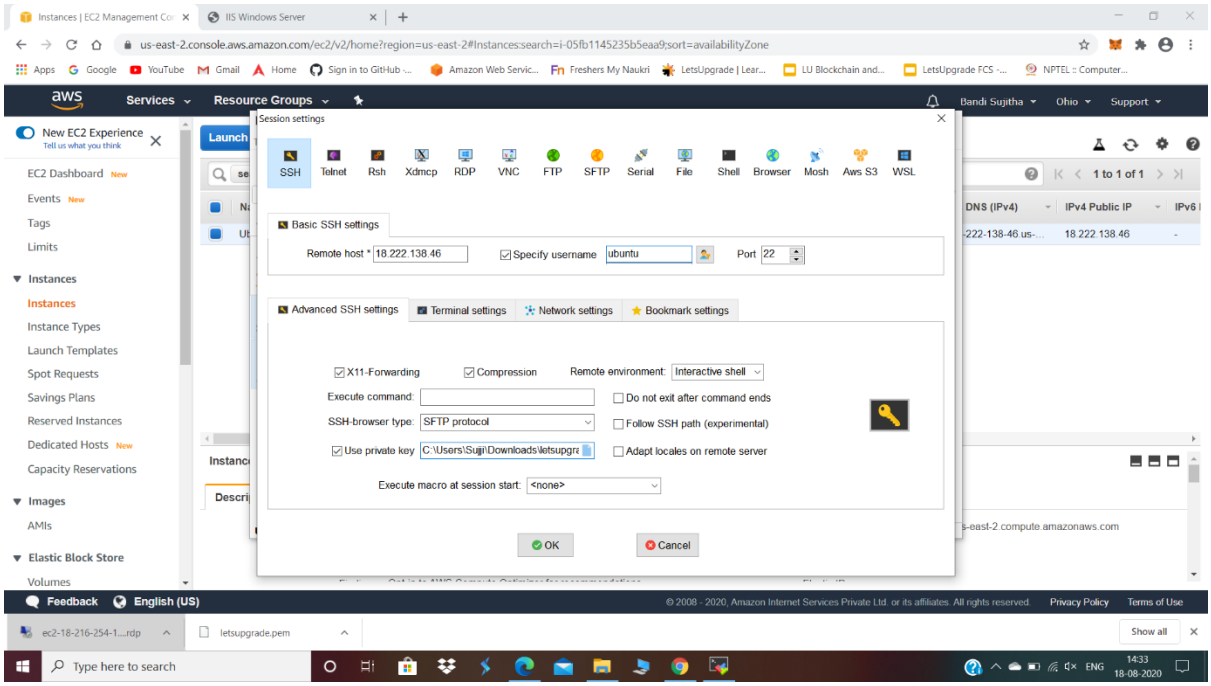
Task2:Download and install MobaXterm Portable Edition



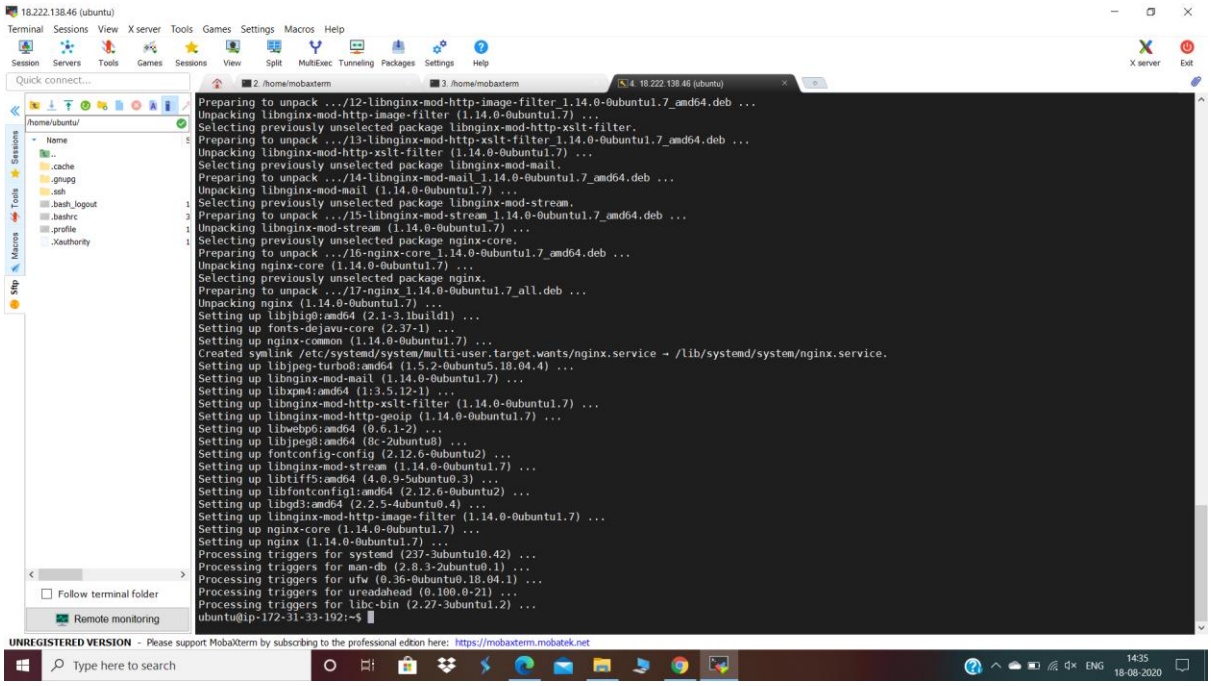

MobaXterm
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
User sessions
18.222.138.46 (ubuntu)
Sessions
Tools
Macros
MobaXterm
Start local terminal
Find existing session or server name...
Recent sessions
18.222.138.46 (ubuntu)
Enable advanced features and enhance security with MobaXterm Professional Edition!


MobaXterm
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. /home/mobaxterm
User sessions
18.222.138.46 (ubuntu)
Sessions
Tools
Macros
Session settings
SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL
Choose a session type...
OK
Cancel
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net

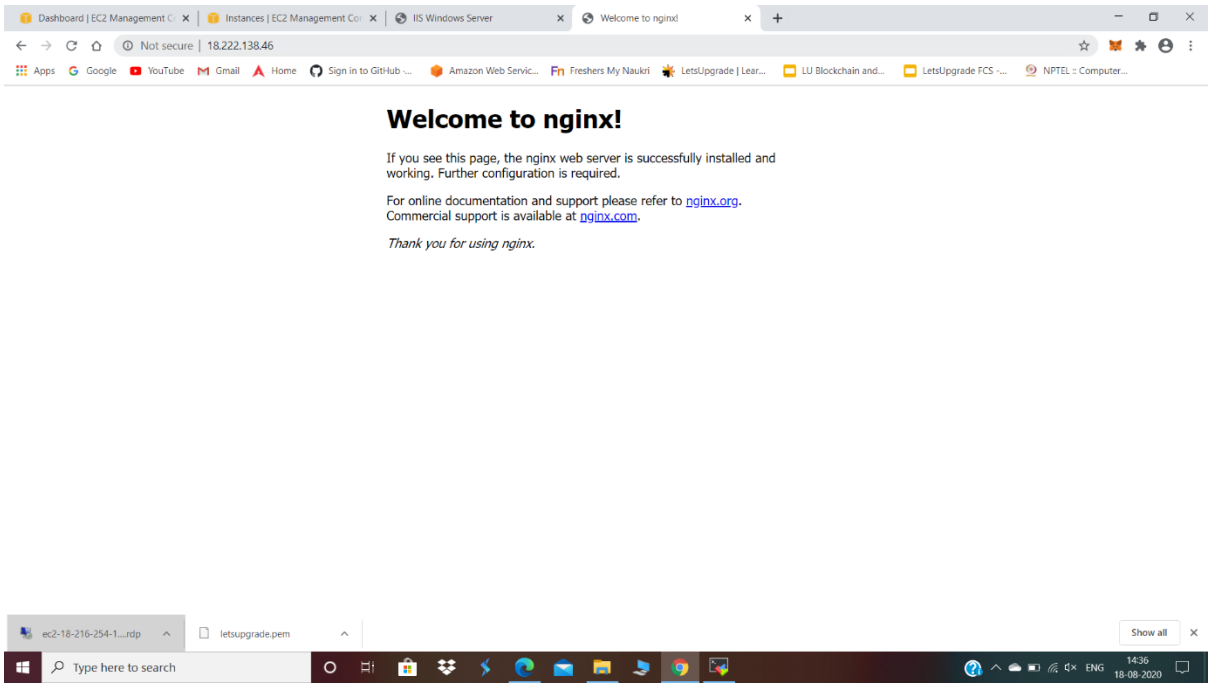

MobaXterm
Session settings
SSH
Telnet
Rsh
Xdmcp
RDP
VNC
FTP
SFTP
Serial
File
Shell
Browser
Mosh
Aws S3
WSL
Basic SSH settings
Remote host *
Specify username
Port 22
Advanced SSH settings
Terminal settings
Network settings
Bookmark settings
Secure Shell (SSH) session
OK
Cancel

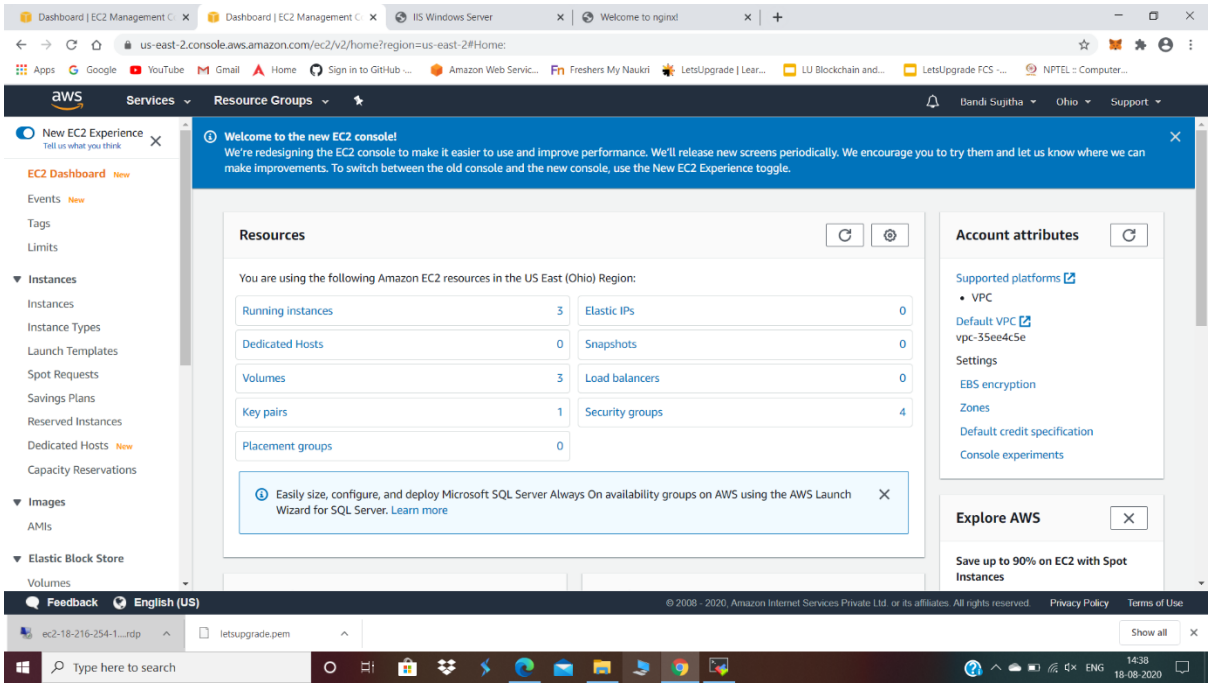

Session settings
SSH
Telnet
Rsh
Xdmcp
RDP
VNC
FTP
SFTP
Serial
File
Shell
Browser
Mosh
Aws S3
WSL
Basic SSH settings
Remote host * 18.222.138.46
Specify username
ubuntu
Port 22
Advanced SSH settings
Terminal settings
Network settings
Bookmark settings
X11-Forwarding
Compression
Remote environment: Interactive shell
Execute command:
Do not exit after command ends
SSH-browser type: SFTP protocol
Follow SSH path (experimental)
Use private key
C:\Users\Sujit\Downloads\letsupgra
Adapt locales on remote server
Execute macro at session start: <none>
OK
Cancel

Task3: Install ngnix web server using bash



Task4: Verify successful installation of ngnix




Dashboard | EC2 Management C
Dashboard | EC2 Management C
IIS Windows Server
Welcome to nginx!
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Home:
Apps
Google
YouTube
Gmail
Home
Sign in to GitHub -...
Amazon Web Servic...
Freshers My Naukri
LetsUpgrade | Lear...
LU Blockchain and...
LetsUpgrade FCS -...
NPTEL :: Computer...
aws
Services
Resource Groups
Bandi Sujitha
Ohio
Support
New EC2 Experience
Tell us what you think
EC2 Dashboard New
Events New
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts New
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Welcome to the new EC2 console!
We're redesigning the EC2 console to make it easier to use and improve performance. We'll release new screens periodically. We encourage you to try them and let us know where we can make improvements. To switch between the old console and the new console, use the New EC2 Experience toggle.
Resources
You are using the following Amazon EC2 resources in the US East (Ohio) Region:
Running instances 3
Elastic IPs 0
Dedicated Hosts 0
Snapshots 0
Volumes 3
Load balancers 0
Key pairs 1
Security groups 4
Placement groups 0
Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. Learn more
Account attributes
Supported platforms
VPC
Default VPC
vpc-35ee4c5e
Settings
EBS encryption
Zones
Default credit specification
Console experiments
Explore AWS
Save up to 90% on EC2 with Spot Instances
Feedback
English (US)
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Privacy Policy
Terms of Use
ec2-18-216-254-1....rdp
letsupgrade.pem
Show all
Type here to search
ENG
14:38
18-08-2020