

## Lab6

Configure EBS Volumes, Snapshot and creating AMI

**PLEASE READ THE BELOW NOTE BEFORE PRACTICE THIS LAB**

Below lab is COST BASED lab, we need to pay some amount to amazon for resizing the partition and resized portioned snapshot. If you are interested to do the lab please resize the volume as 1 GB and try this scenario. The below mentioned scenario is partially success because we have created the windows image and use the AMI for with an instance. But we are unable to launch the instance in this case. Sir will teach creating AMI session by using the instance image in this class later with Auto scaling concept.

Click "EC2".

The screenshot shows the AWS Management Console homepage. The top navigation bar includes the AWS logo, a search bar, and links for Services, Resource Groups, Notifications, User (siva1n82), Region (Oregon), and Support. The main content area is titled "AWS services" and contains a search bar. Below it, there are two sections: "Recently visited services" and "All services". The "All services" section is expanded, showing categories like Compute, Storage, Database, Migration, Management Tools, Mobile Services, AR & VR, Application Integration, Media Services, Customer Engagement, Machine Learning, Business Productivity, and others. Under the Compute category, "EC2" is highlighted with a yellow box. To the right of the service list is a "Helpful tips" sidebar with links to "Manage your costs" and "Create an organization", and an "Explore AWS" sidebar with links to "Amazon Relational Database Service (RDS)", "Real-Time Analytics with Amazon Kinesis", "Get Started with Containers on AWS", and "AWS Marketplace".

Click “Launch Instance”.

The screenshot shows the AWS EC2 Management Console interface. The left sidebar contains navigation links for EC2 Dashboard, Instances, Images, Elastic Block Store, Network & Security, Load Balancing, and Auto Scaling. The main content area displays the 'Resources' section, which lists 0 Running Instances, 0 Dedicated Hosts, 0 Volumes, 9 Key Pairs, 0 Placement Groups, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, and 3 Security Groups. Below this, a callout box highlights the 'Launch Instance' button. To the right, there are sections for Account Attributes (Supported Platforms: VPC, Default VPC: vpc-a655a2ce), Resource ID length management, Additional Information (Getting Started Guide, Documentation, All EC2 Resources, Forums, Pricing, Contact Us), and AWS Marketplace (Software products like Barracuda NextGen Firewall F-Series - PAYG, Splunk Insights for AWS Cloud Monitoring, and Bring Your Own License + AWS Usage fees). The bottom of the screen includes a feedback link, language selection (English (US)), and standard footer links (Privacy Policy, Terms of Use).

Select “Windows Server 2016 Base”.

The screenshot shows the "Step 1: Choose an Amazon Machine Image (AMI)" screen of the AWS EC2 Management Console. The URL is https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard. The top navigation bar includes "Services", "Resource Groups", "Mumbai", and "Support". Below the navigation, a progress bar shows steps 1 through 7. The main content area lists several AMI options:

- Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type - ami-e60e5a89**  
Red Hat Enterprise Linux version 7.4 (HVM), EBS General Purpose (SSD) Volume Type  
Root device type: ebs Virtualization type: hvm  
**Select** button (disabled)  
64-bit
- Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-5d055232**  
Ubuntu Server 16.04 LTS (HVM).EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).  
Root device type: ebs Virtualization type: hvm  
**Select** button (disabled)  
64-bit
- Amazon RDS**  
Amazon RDS makes it easy to set up, operate, and scale your database on AWS by automating time-consuming database management tasks. With RDS, you can easily deploy **Amazon Aurora, MariaDB, MySQL, Oracle, PostgreSQL, and SQL Server** databases on AWS. Aurora is a MySQL- and PostgreSQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. [Learn more about RDS](#)  
**Launch a database using RDS** button (disabled)  
**Select** button (disabled)  
Hide
- Microsoft Windows Server 2016 Base - ami-ad8addc2**  
Microsoft Windows 2016 Datacenter edition. [English]  
Root device type: ebs Virtualization type: hvm  
**Select** button (disabled)  
64-bit
- Deep Learning AMI (Ubuntu) Version 3.0 - ami-7fa1f010**  
Latest versions of deep learning frameworks pre-installed in separate virtual environments: MXNet, TensorFlow, Caffe, Caffe2, PyTorch, Theano, CNTK, Keras  
Root device type: ebs Virtualization type: hvm  
**Select** button (disabled)  
64-bit
- Deep Learning AMI (Amazon Linux) Version 3.0 - ami-0ca1f063**  
Latest versions of deep learning frameworks pre-installed in separate virtual environments: MXNet, TensorFlow, Caffe, Caffe2, PyTorch, Theano, CNTK, Keras  
**Select** button (disabled)  
64-bit

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Select “t2.micro”.

The screenshot shows the AWS EC2 Management Console interface. The title bar reads "EC2 Management Console". The URL is https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard. The top navigation bar includes "Services", "Resource Groups", "siva1n82", "Mumbai", and "Support". Below the navigation is a breadcrumb trail: 1. Choose AMI, 2. Choose Instance Type (which is highlighted in blue), 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

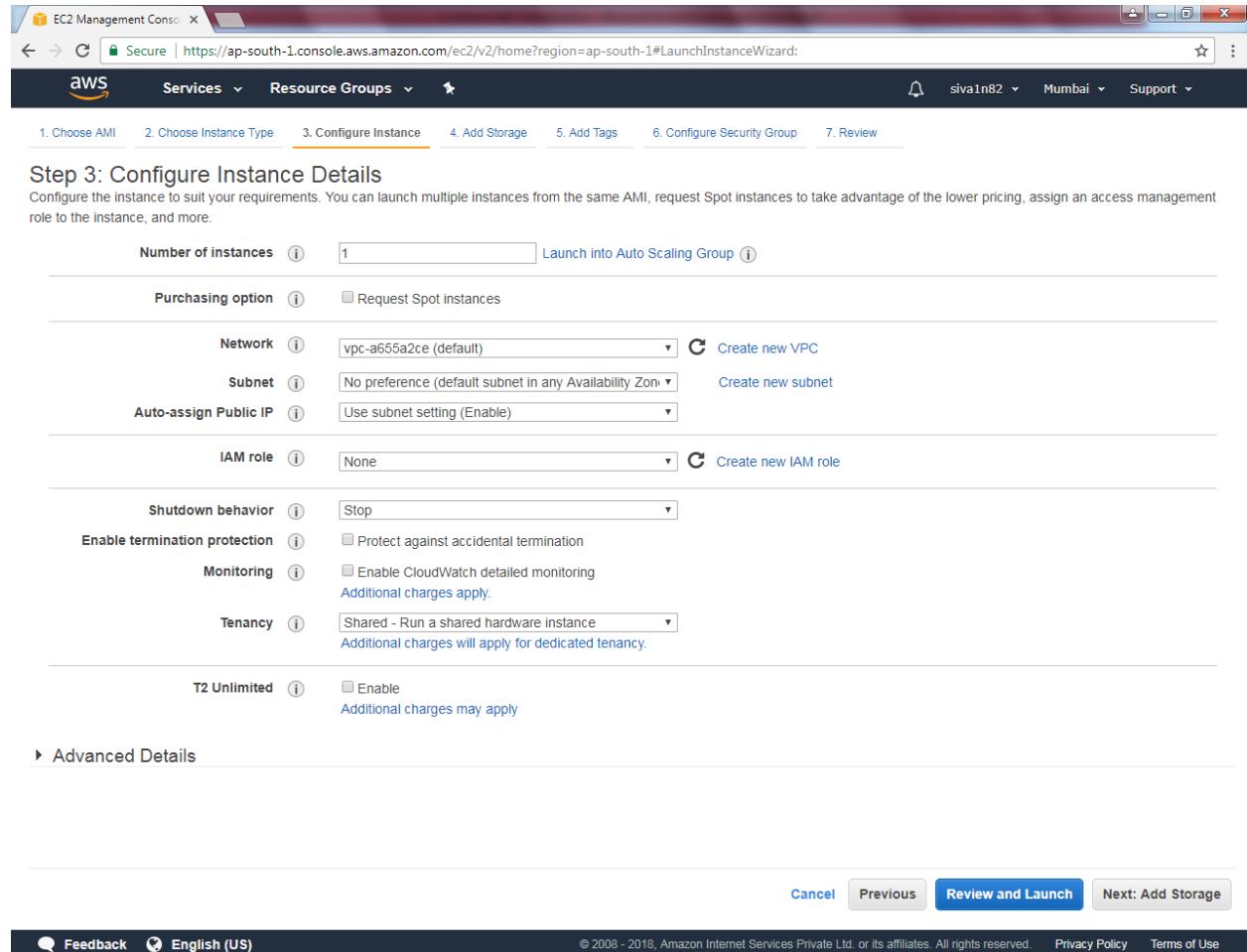
	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	High	Yes
<input type="checkbox"/>	General purpose	m4.4xlarge	16	64	EBS only	Yes	High	Yes

Buttons at the bottom: Cancel, Previous, **Review and Launch**, Next: Configure Instance Details.

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Click “Next”.

Leave default settings and click “Next”.



Leave default settings and click “Next”.

**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	Encrypted
Root	/dev/sda1	snap-07c4e75608dbb668e	30	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

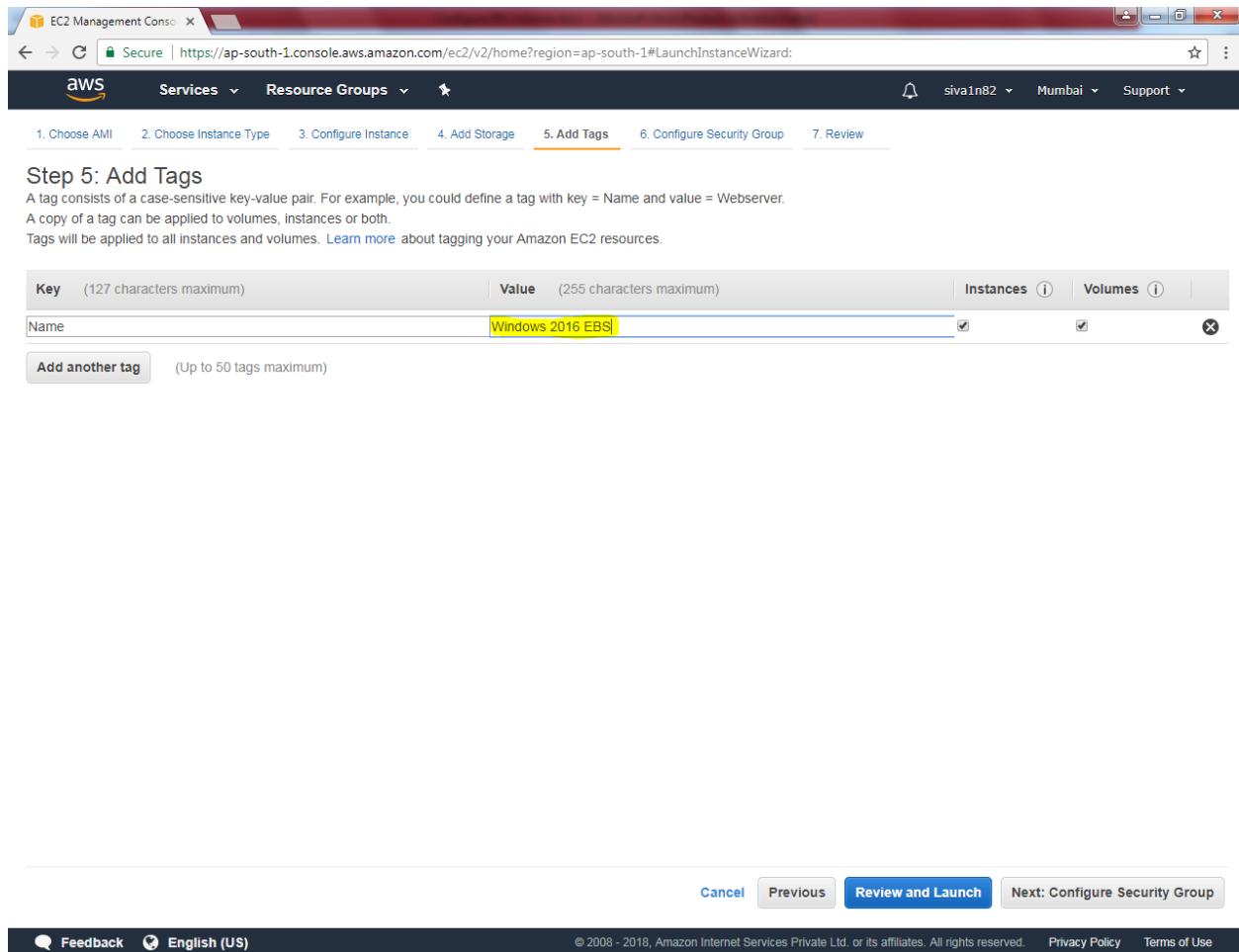
Add New Volume

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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Key as “Name” and Value as “Windows 2016 EBS”.



Click “Next”.

Create a new security called “Mumbai Sec Group”.

**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: Mumbai-Sec-Group

Description: Mumbai-Sec-Group

Type	Protocol	Port Range	Source	Description
RDP	TCP	3389	Custom	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

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Click “Review and Launch”.

Leave default settings and click “Launch”.

**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.

**AMI Details**

**Microsoft Windows Server 2016 Base - ami-ad8addc2**

**Free tier eligible** Microsoft Windows 2016 Datacenter edition. [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**

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**

**Mumbai-Sec-Group**

Description Mumbai-Sec-Group

Type (i)	Protocol (i)	Port Range (i)	Source (i)	Description (i)
RDP	TCP	3389	0.0.0.0/0	

**Instance Details**

**Launch**

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If you have existing key choose an existing key pair and select the Key pair. Other wise you need to create an new key pair. Click " I acknowledge".

**Select an existing key pair or create a new key pair** X

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  
Eveningaws ▼

I acknowledge that I have access to the selected private key file (Eveningaws.pem), and that without this file, I won't be able to log into my instance.

[Cancel](#) Launch Instances

Click “launch Instance”.

Click the highlighted area to view the instance.

The screenshot shows the AWS EC2 Management Console with the URL <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard>. The top navigation bar includes links for AWS, Services, Resource Groups, Notifications (siva1n82), Region (Mumbai), and Support.

The main content area is titled "Launch Status". It displays a green success message: "Your instances are now launching" with a checkmark icon. Below it, a link to "View launch log" is shown. A blue info message box contains the text "Get notified of estimated charges" with an info icon, followed by a note about creating billing alerts.

A section titled "How to connect to your instances" provides instructions: "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." It also says "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."

A collapsed section titled "Here are some helpful resources to get you started" lists links to the Amazon EC2 User Guide, Microsoft Windows Guide, and Discussion Forum.

Below these sections, there are three links: "Create status check alarms", "Create and attach additional EBS volumes", and "Manage security groups". A blue "View Instances" button is located on the right side of the page.

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Server is getting ready, wait up to 2/2 status checks.

The screenshot shows the AWS EC2 Management Console interface. The left sidebar navigation menu includes: EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES (selected), Instances, Launch Templates, Spot Requests, Reserved Instances, Dedicated Hosts, IMAGES (AMIs, Bundle Tasks), ELASTIC BLOCK STORE (Volumes, Snapshots), NETWORK & SECURITY (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), LOAD BALANCING (Load Balancers, Target Groups), and AUTO SCALING (Launch Configurations). The main content area displays a table of instances with one row selected. The selected instance is a Windows 2016 EBS instance (i-025d7d354bb249328) with the following details:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Windows 20...	i-025d7d354bb249328	t2.micro	ap-south-1a	running	Initializing	None	ec2-35-154-242-12

A detailed view of the selected instance (i-025d7d354bb249328) is shown in a modal window. The modal has tabs for Description, Status Checks, Monitoring, and Tags. The Description tab displays the following information:

Instance ID	Public DNS (IPv4)
i-025d7d354bb249328	ec2-35-154-242-123.ap-south-1.compute.amazonaws.com
Instance state	IPv4 Public IP
running	35.154.242.123
Instance type	IPv6 IPs
t2.micro	-
Elastic IPs	Private DNS
	ip-172-31-18-76.ap-south-1.compute.internal
Availability zone	Private IPs
ap-south-1a	172.31.18.76

At the bottom of the modal, there are links for Feedback, English (US), and a footer with copyright information: © 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use.

Click "Actions"

The screenshot shows the AWS EC2 Management Console interface. The left sidebar navigation includes: EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES (selected), Instances, Launch Templates, Spot Requests, Reserved Instances, Dedicated Hosts, IMAGES, AMIs, Bundle Tasks, ELASTIC BLOCK STORE, Volumes, Snapshots, NETWORK & SECURITY, Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces, LOAD BALANCING, Load Balancers, Target Groups, and AUTO SCALING, Launch Configurations.

The main content area displays a table of instances. A single instance is selected: "Windows 2016 EBS" (Instance ID: i-025d7d354bb249328). The table columns include: Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, and Public DNS. The instance details are as follows:

	Description	Status Checks	Monitoring	Tags
Instance ID	i-025d7d354bb249328			
Instance state	running			
Instance type	t2.micro			
Elastic IPs				
Availability zone	ap-south-1a			
Public DNS (IPv4)	ec2-35-154-242-123.ap-south-1.compute.amazonaws.com			
IPv4 Public IP	35.154.242.123			
IPv6 IPs	-			
Private DNS	ip-172-31-18-76.ap-south-1.compute.internal			
Private IPs	172.31.18.76			

At the bottom of the screen, there are links for Feedback, English (US), Copyright notice (© 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.), Privacy Policy, and Terms of Use.

Click “Get Password”.

## Connect To Your Instance

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** ec2-35-154-242-123.ap-south-1.compute.amazonaws.com

**User name** Administrator

**Password** [Get 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](#)

Click "Choose File".

## Connect To Your Instance > Get Password



The following Key Pair was associated with this instance when it was created.

**Key Name** Eveningaws.pem

In order to retrieve your password you will need to specify the path of this Key Pair on your local machine:

**Key Pair Path**  No file chosen

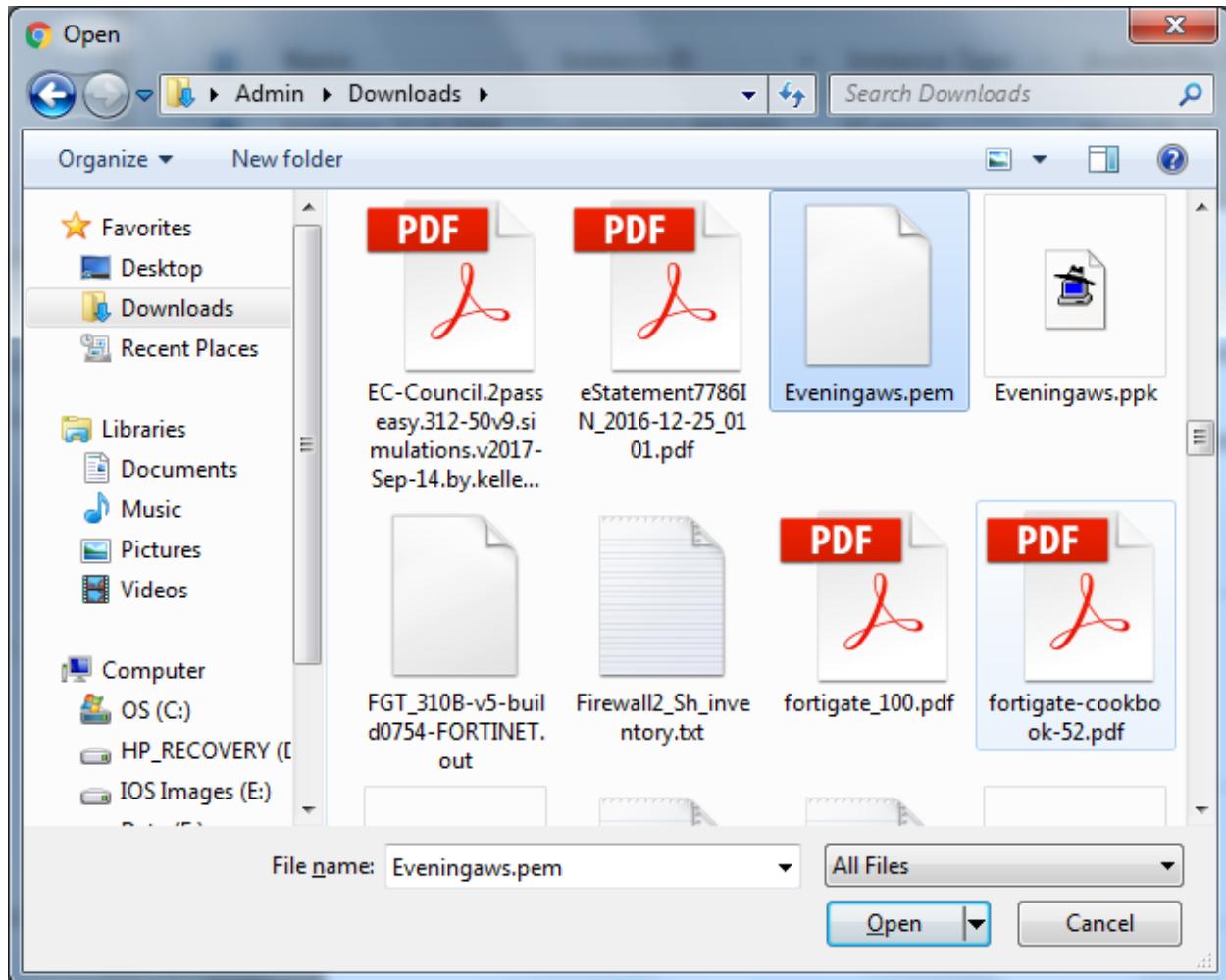
Or you can copy and paste the contents of the Key Pair below:

**Decrypt Password**

**Back**

**Close**

Locate the "Eveningaws.pem" file.



Click "Open".

Click "Decrypt Password".

## Connect To Your Instance > Get Password X

The following Key Pair was associated with this instance when it was created.

**Key Name** Eveningaws.pem

In order to retrieve your password you will need to specify the path of this Key Pair on your local machine:

**Key Pair Path**  Eveningaws.pem

Or you can copy and paste the contents of the Key Pair below:

```
-----BEGIN RSA PRIVATE KEY-----
MIIEowlBAAKCAQEAjg+h2SSjdteK5CxwM3CniHtf/5xMKVBKXNmifwc3v70wZ1Pl
eR9VhcKeq6ok
zzQQ9u+QH3QF5RaxXNc2ELM+WQWdc2cHXH081YepMOU+HQUpOHv+Z00MZl54MmiXXGjsHH
EuZw0
vIZMPz6Spw8svcxYVhK4SWxYosY3x9W+pXAKTefncS7PVzmE0mancrERfXc4mmF9tCv5HI9suOj
tlBpOaaRY4kBdtZnrodfggQ3khs4HIGmuScSTdQL7FiBbXhl8N1embl93Arcm8YJMPA/xQZYHglJ
```

Decrypt Password

Back Close

You have got the password successfully.

## Connect To Your Instance

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** ec2-35-154-242-123.ap-south-1.compute.amazonaws.com  
**User name** Administrator  
**Password** 6D-vQ%EB\$alZ(2x@x\*Bir=vtSppeIWZ8

If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

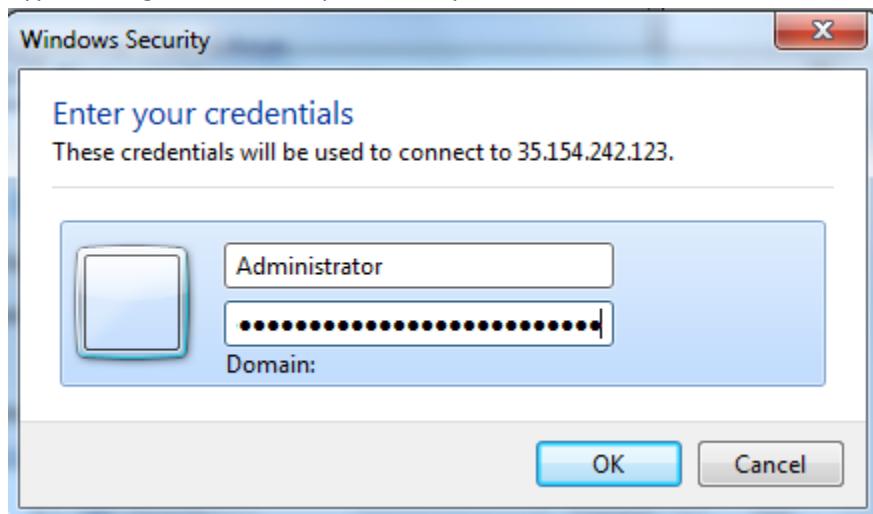
If you need any assistance connecting to your instance, please see our [connection documentation](#).

[Close](#)

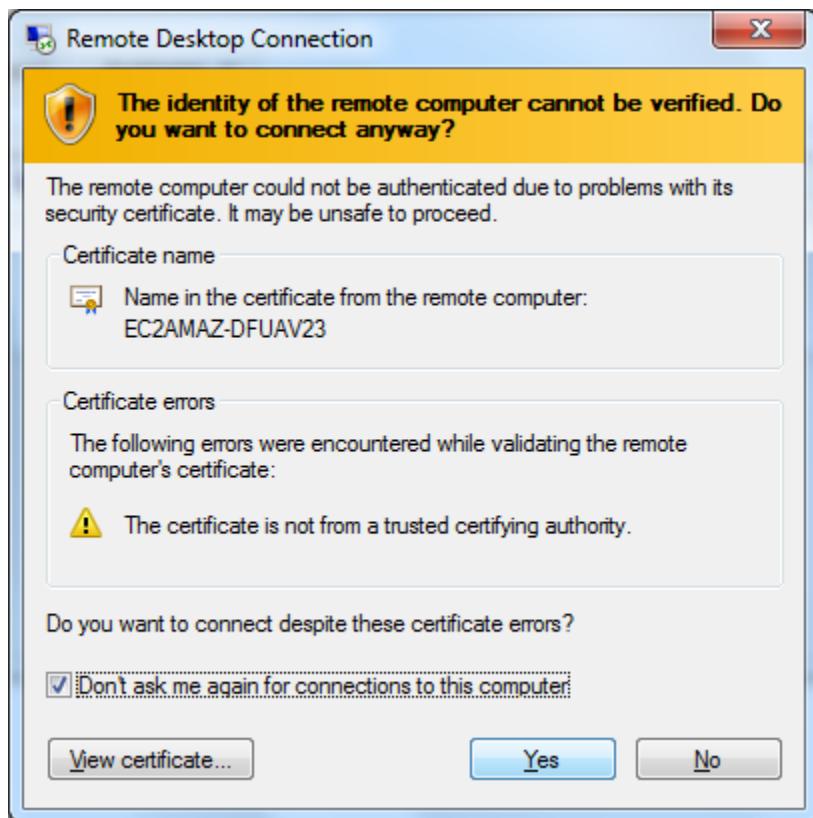
Type mstsc in run box, then type the Ip address of the server.



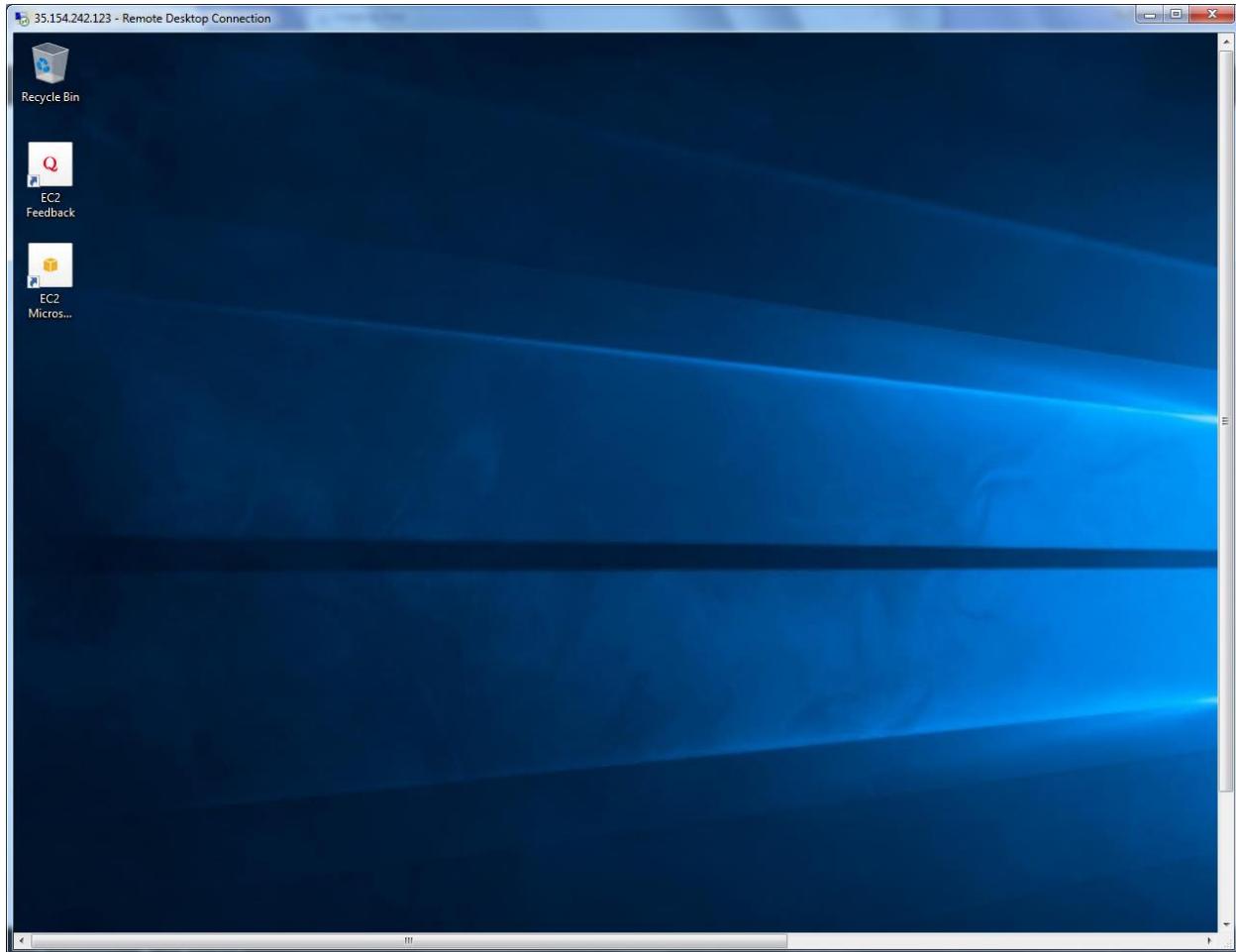
Type the login credentials provided by aws.



Click "Yes".



We have connected the server successfully.

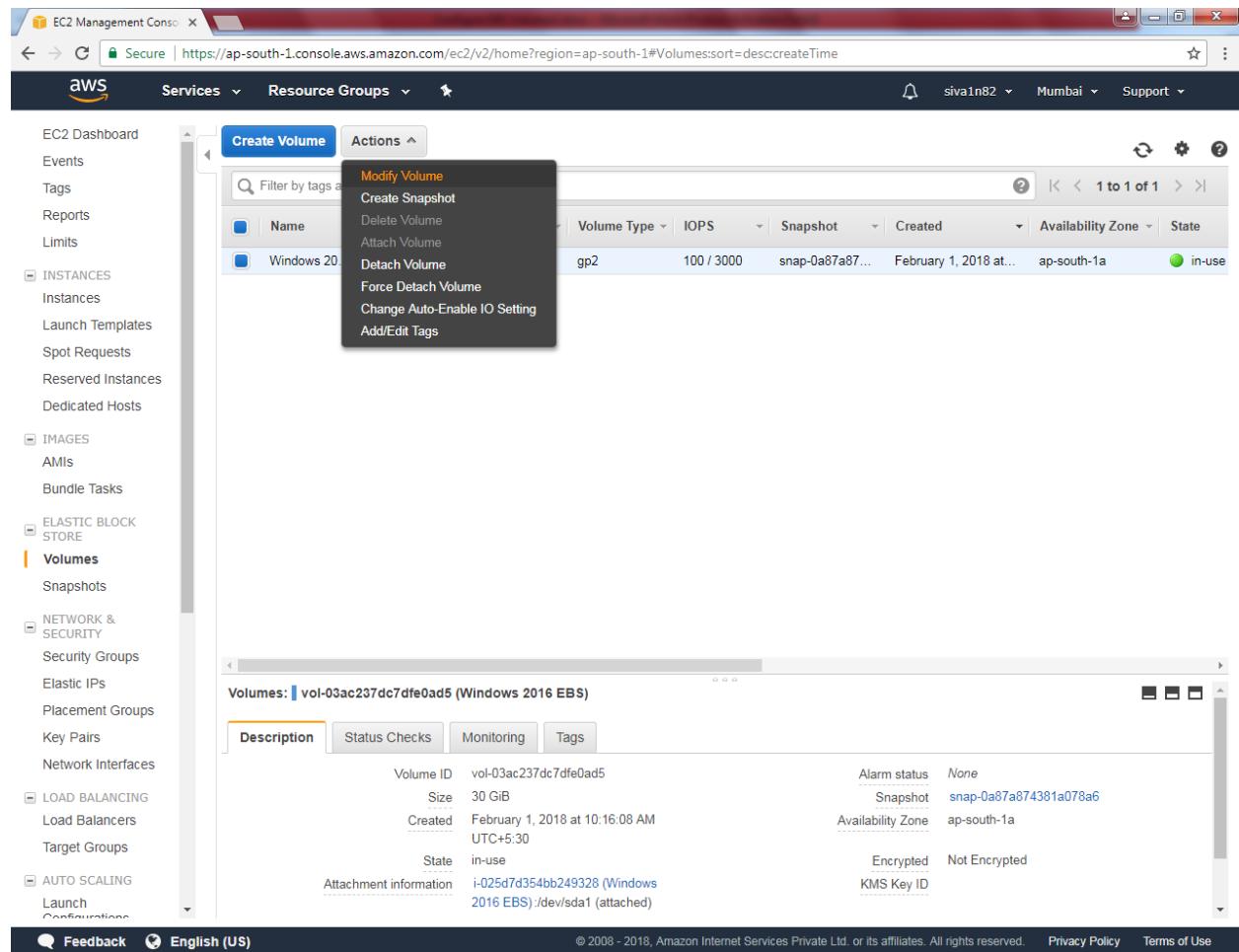


Now we need to modify the volume in AWS console.

Click "Volume".

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State
Windows 20...	vol-03ac237...	30 GiB	gp2	100 / 3000	snap-0a87a87...	February 1, 2018 at...	ap-south-1a	in-use

Click "Modify volume".



Type the size is 35GiB. (If you want to make it as 31GiB you can do the same).

## Modify Volume

Volume ID vol-03ac237dc7dfe0ad5

Volume Type General Purpose SSD (GP2) i

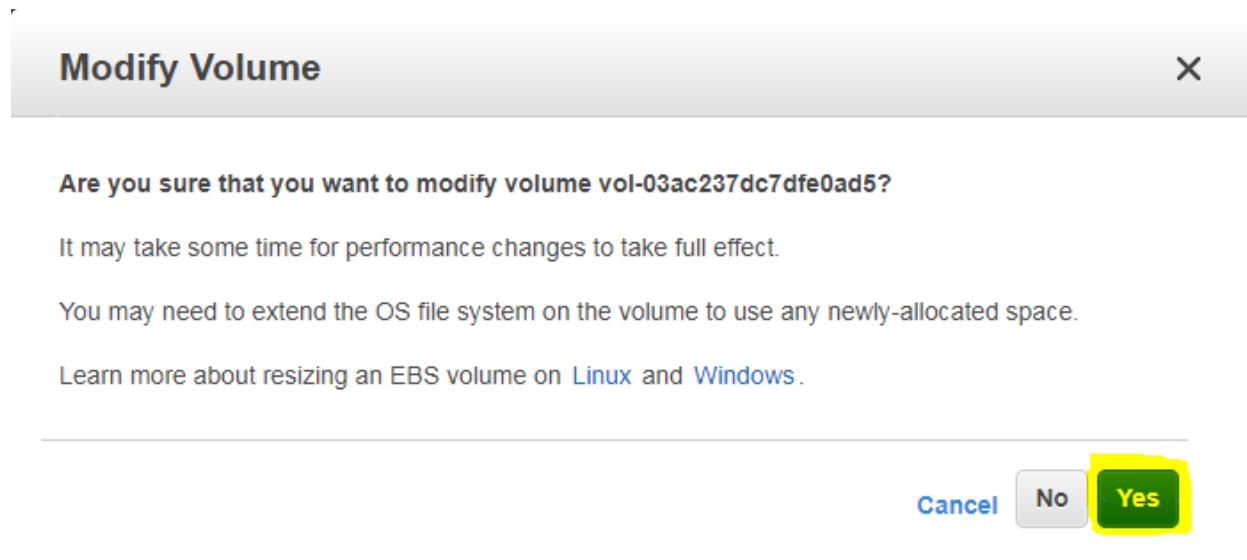
Size  (Min: 1 GiB, Max: 16384 GiB) i

IOPS 105 / 3000 (Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS) i

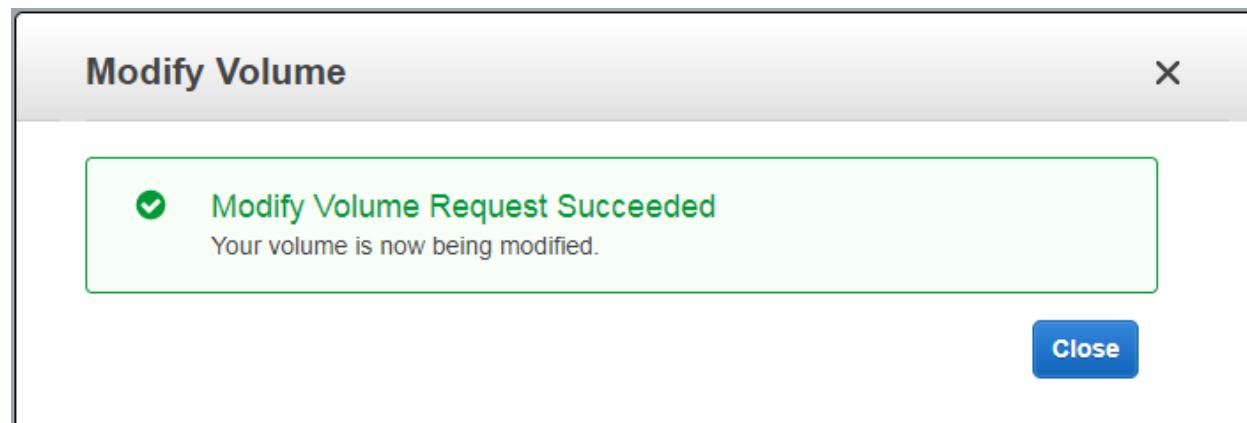
[Cancel](#) [Modify](#)

Click “Modify”.

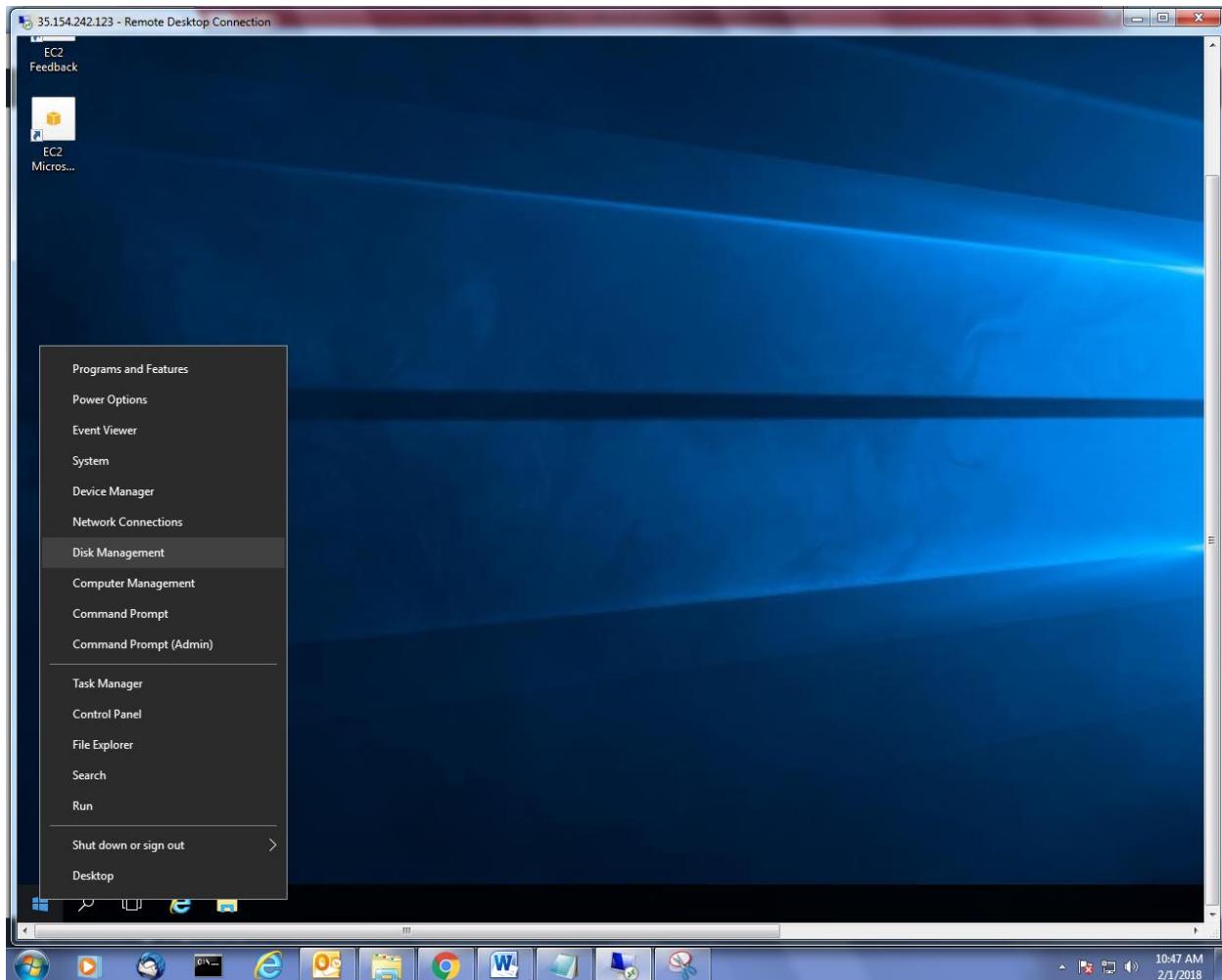
Click “Yes”.



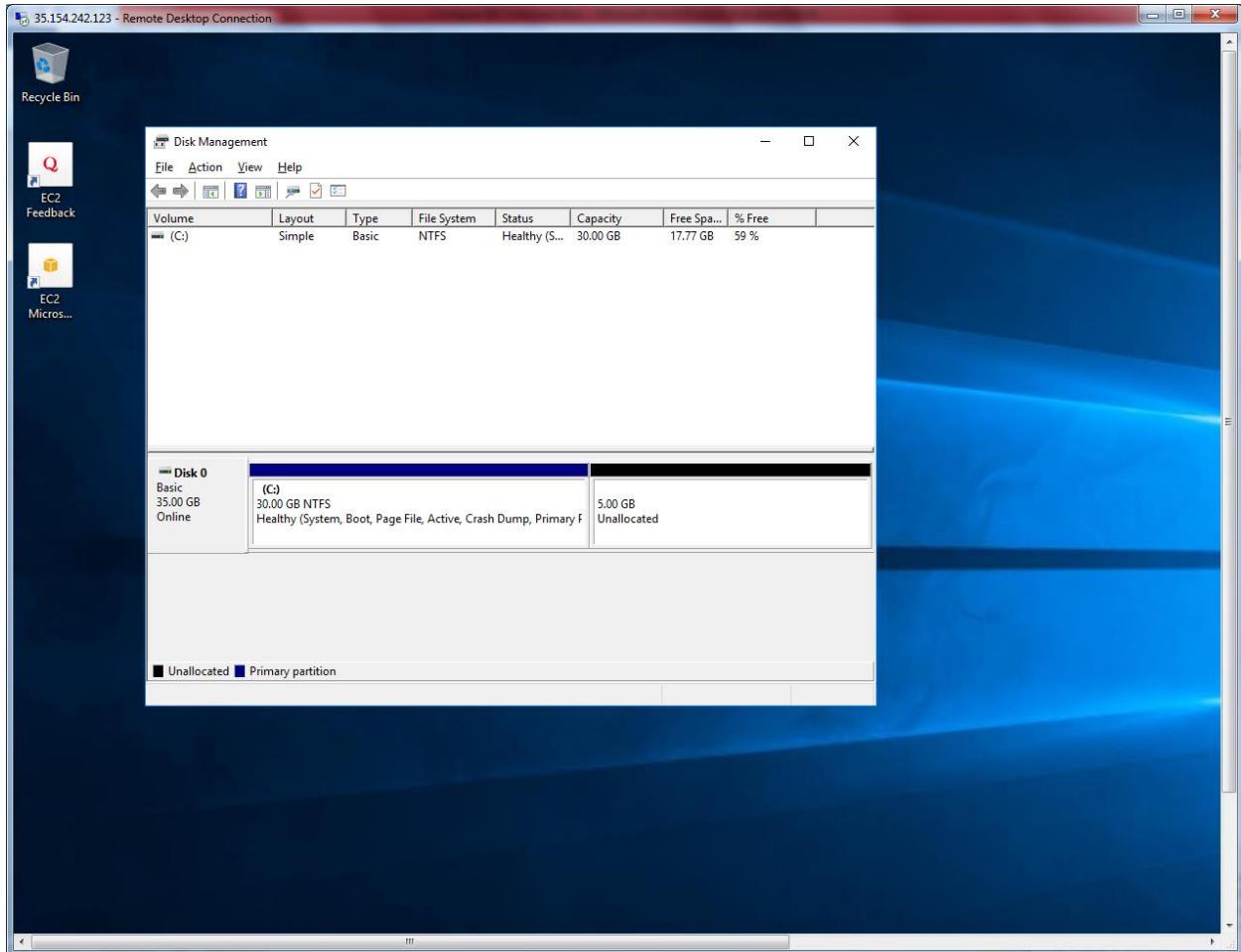
We have got information that Modify volume request succeeded.



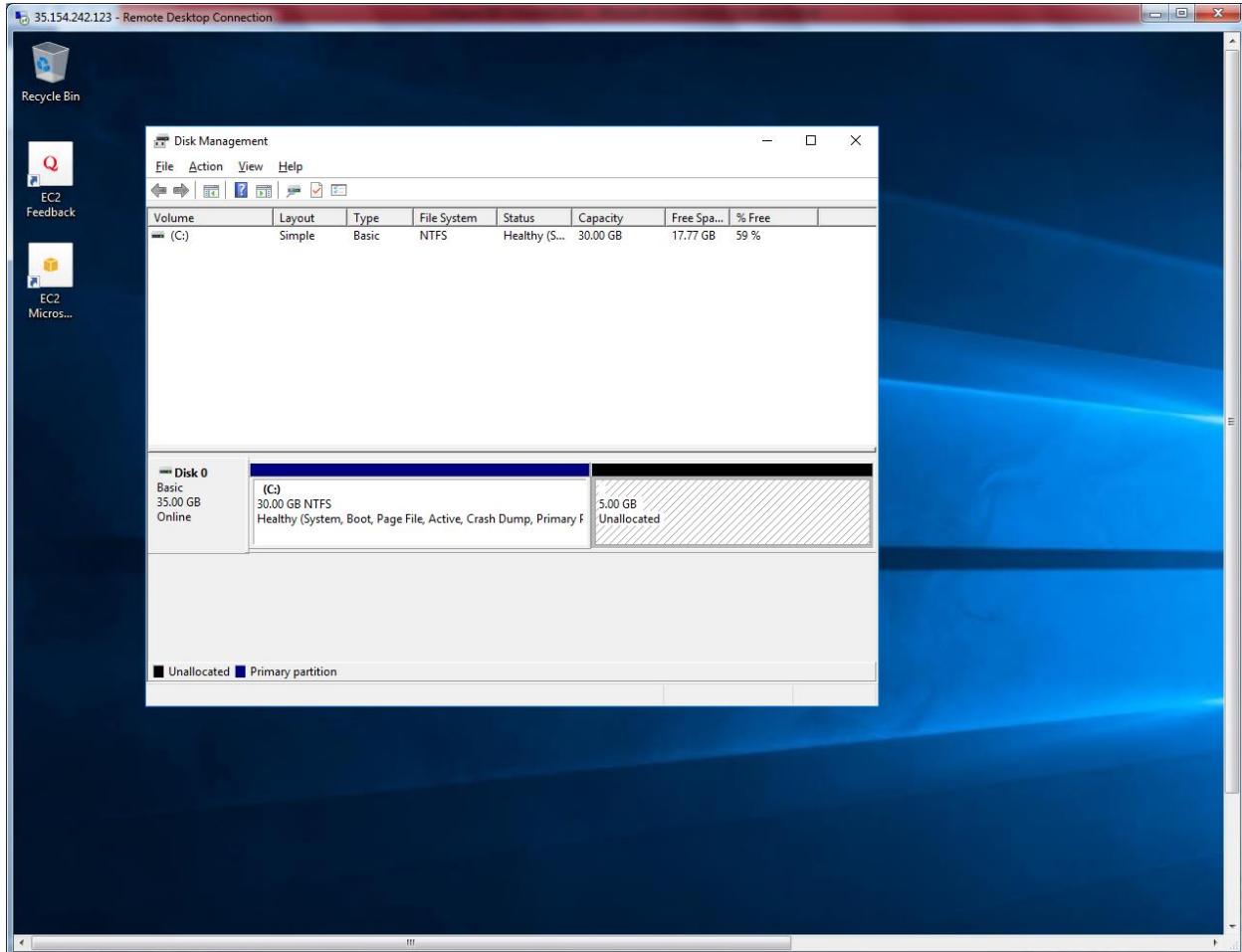
Right click start menu to get "Disk management".



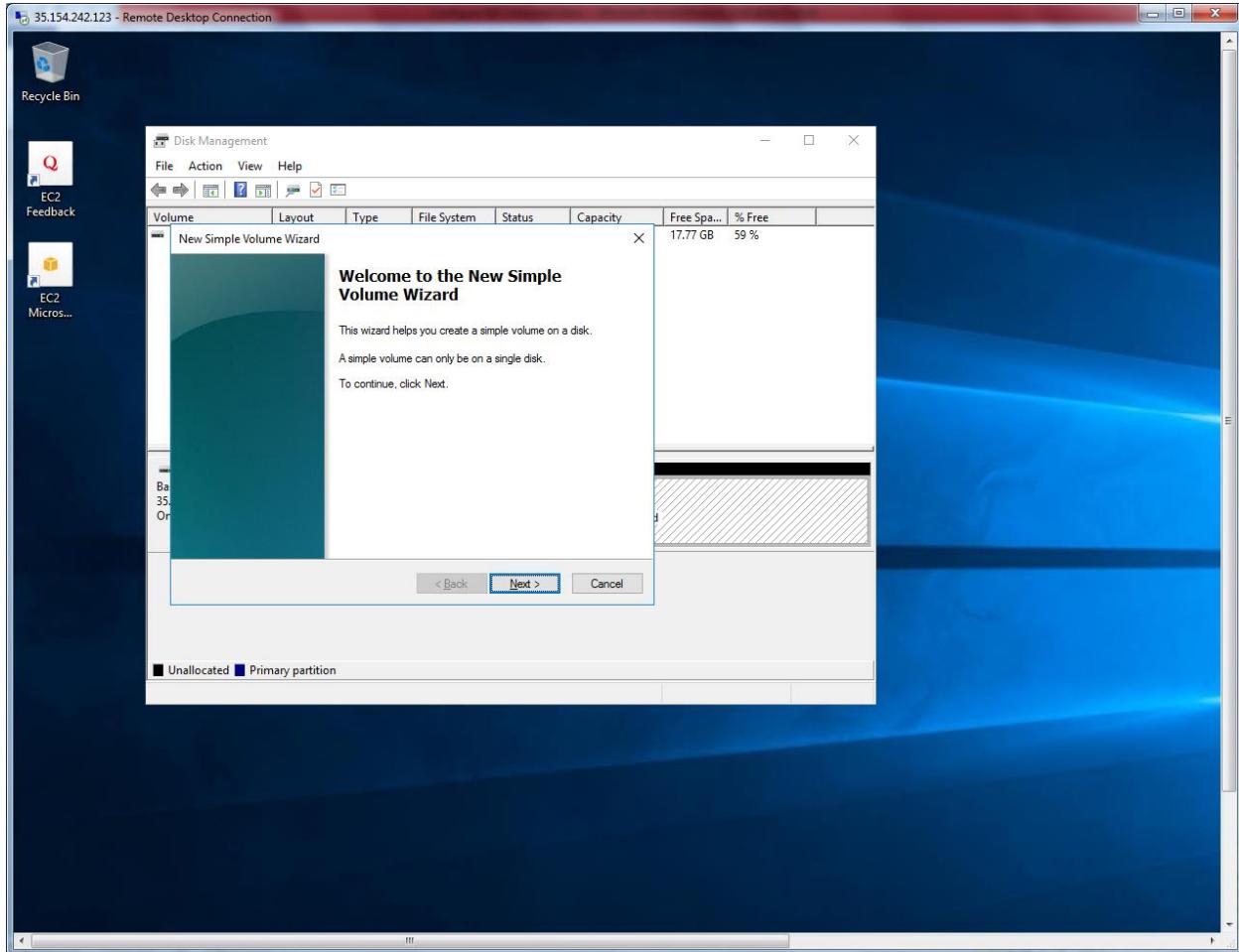
Open the disk management, modified partition will not shown by default. You need to press "F5". Now you can able to see "5.0" GB in unallocated partition.



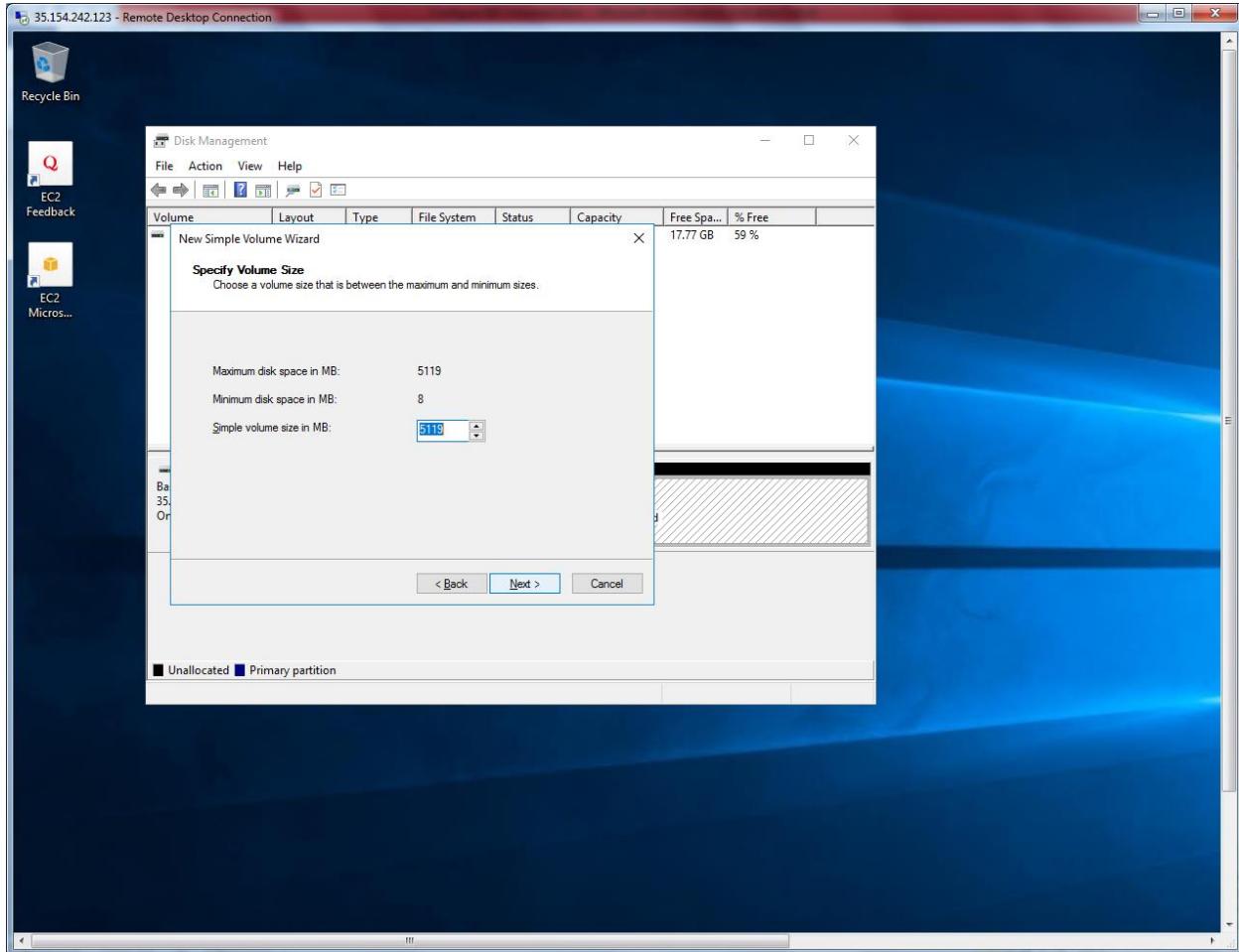
Select the unallocated partition and right click and then click “New Simple Volume”.



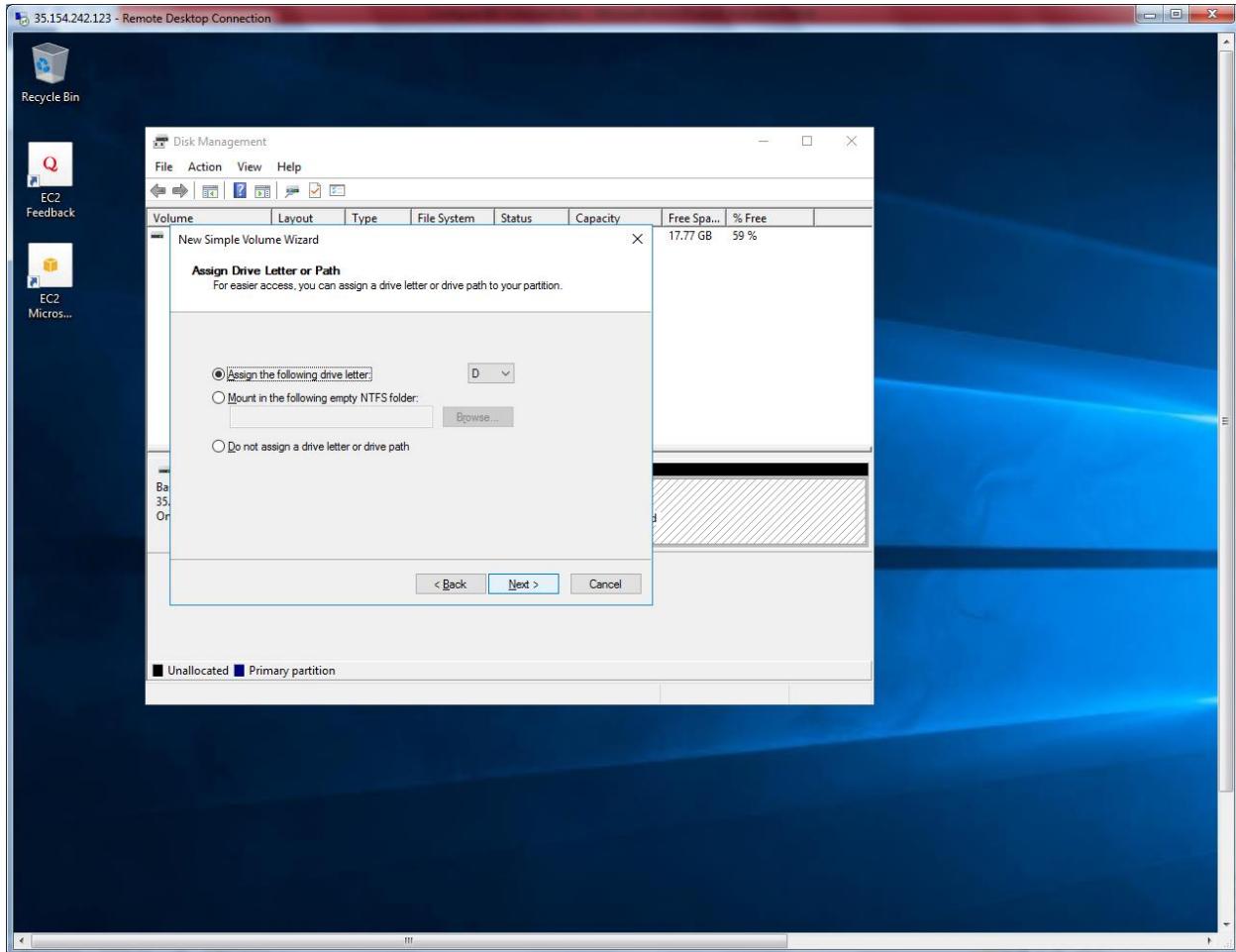
Click “Next”.



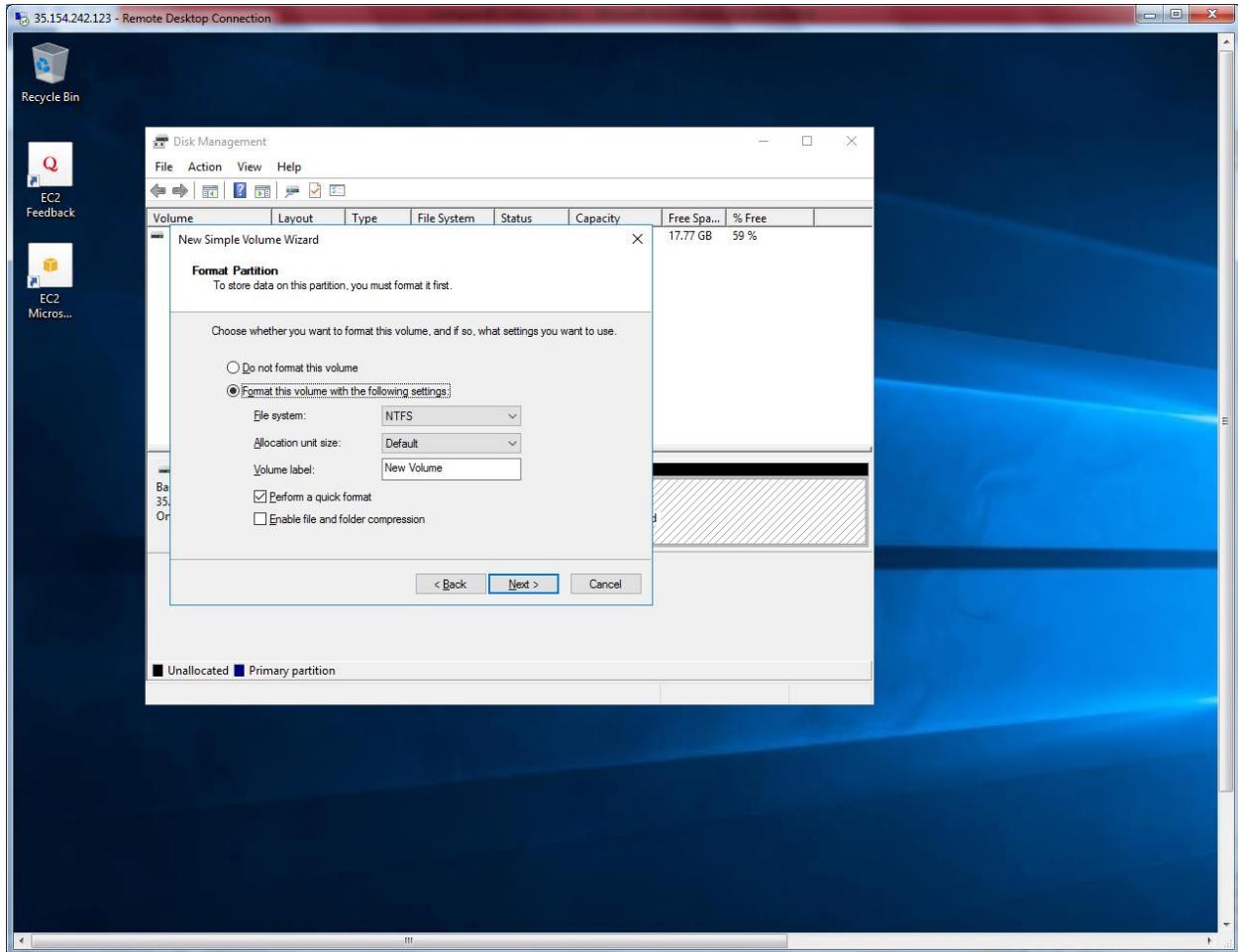
Click “Next”.

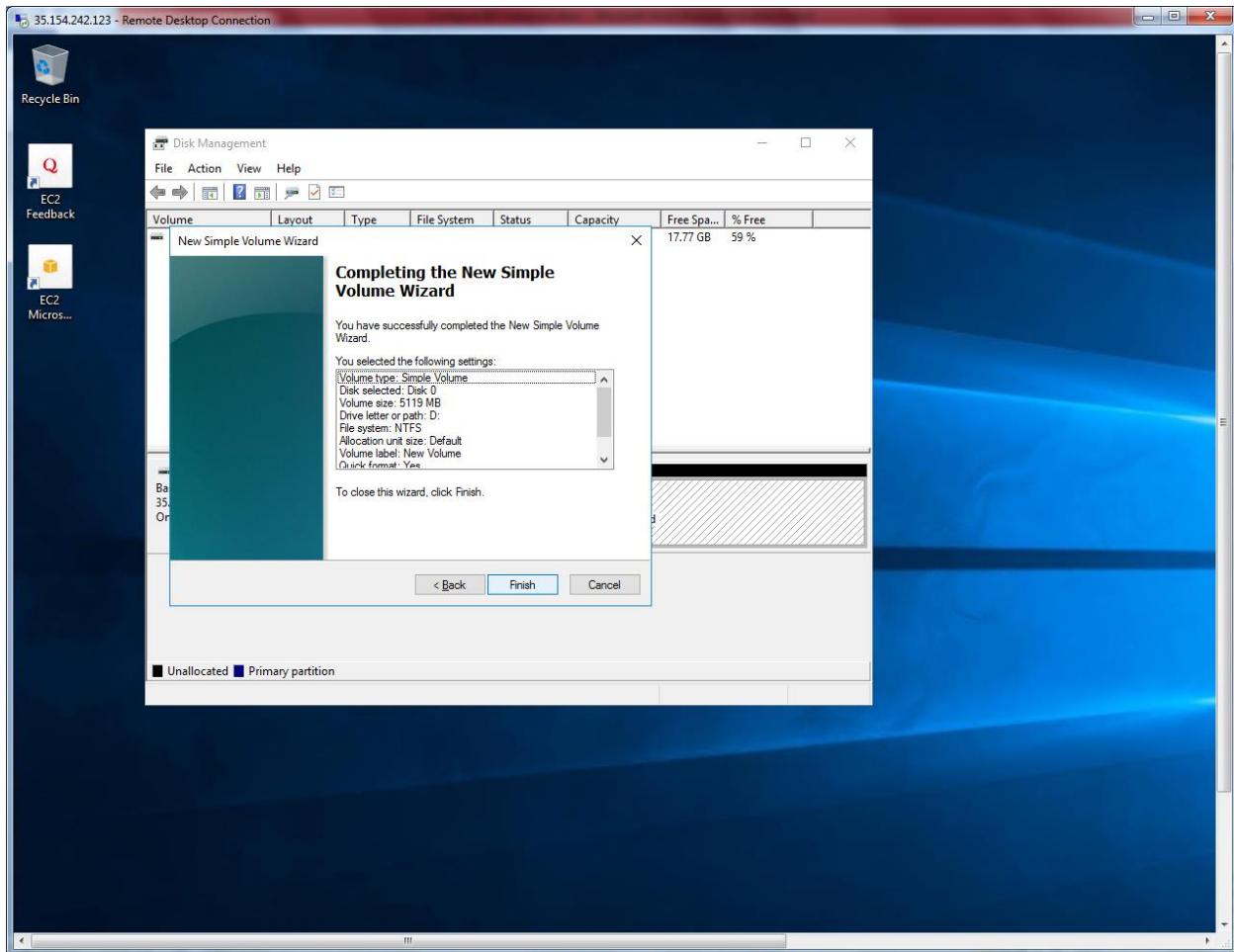


Click “Next”.



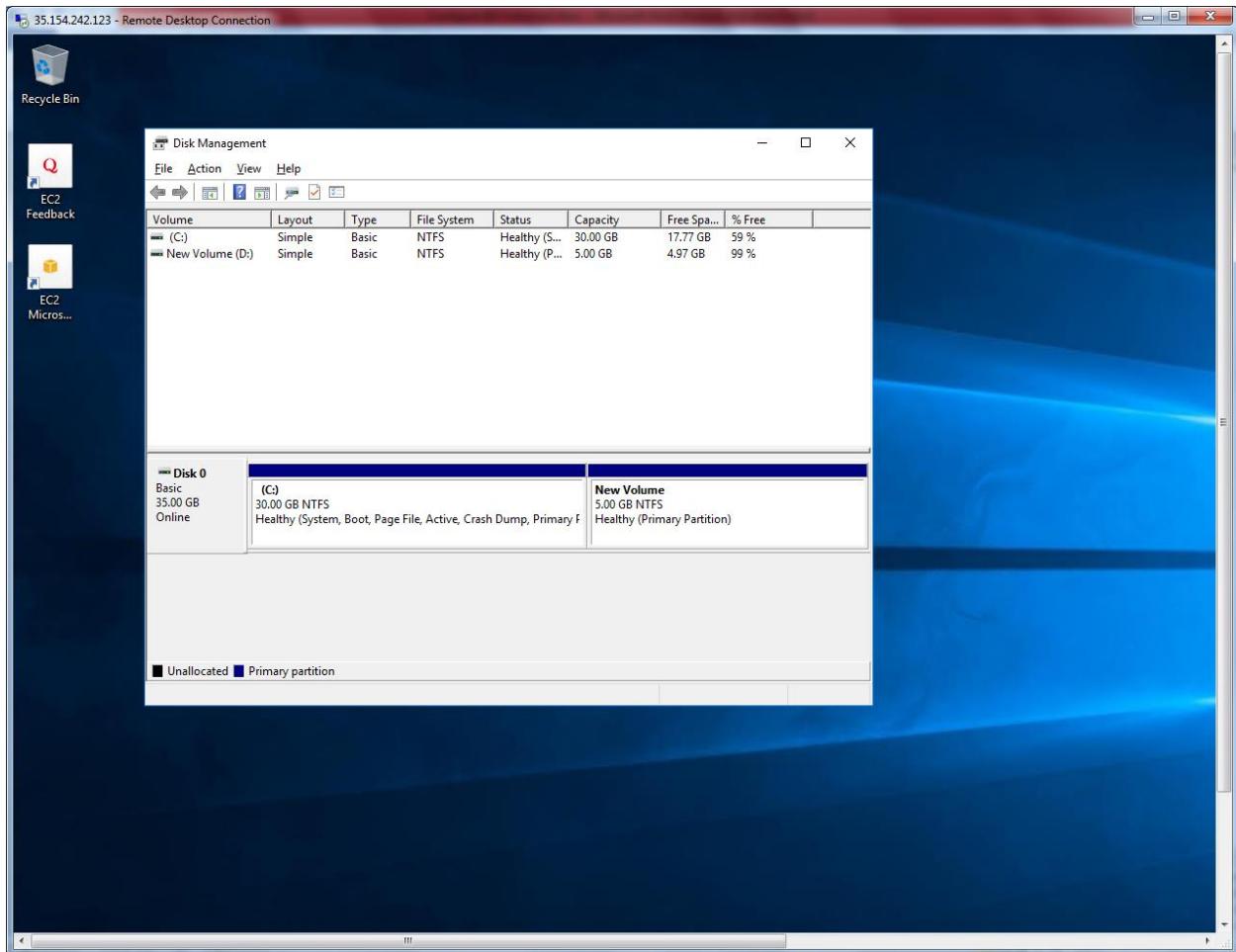
Click “Next”.



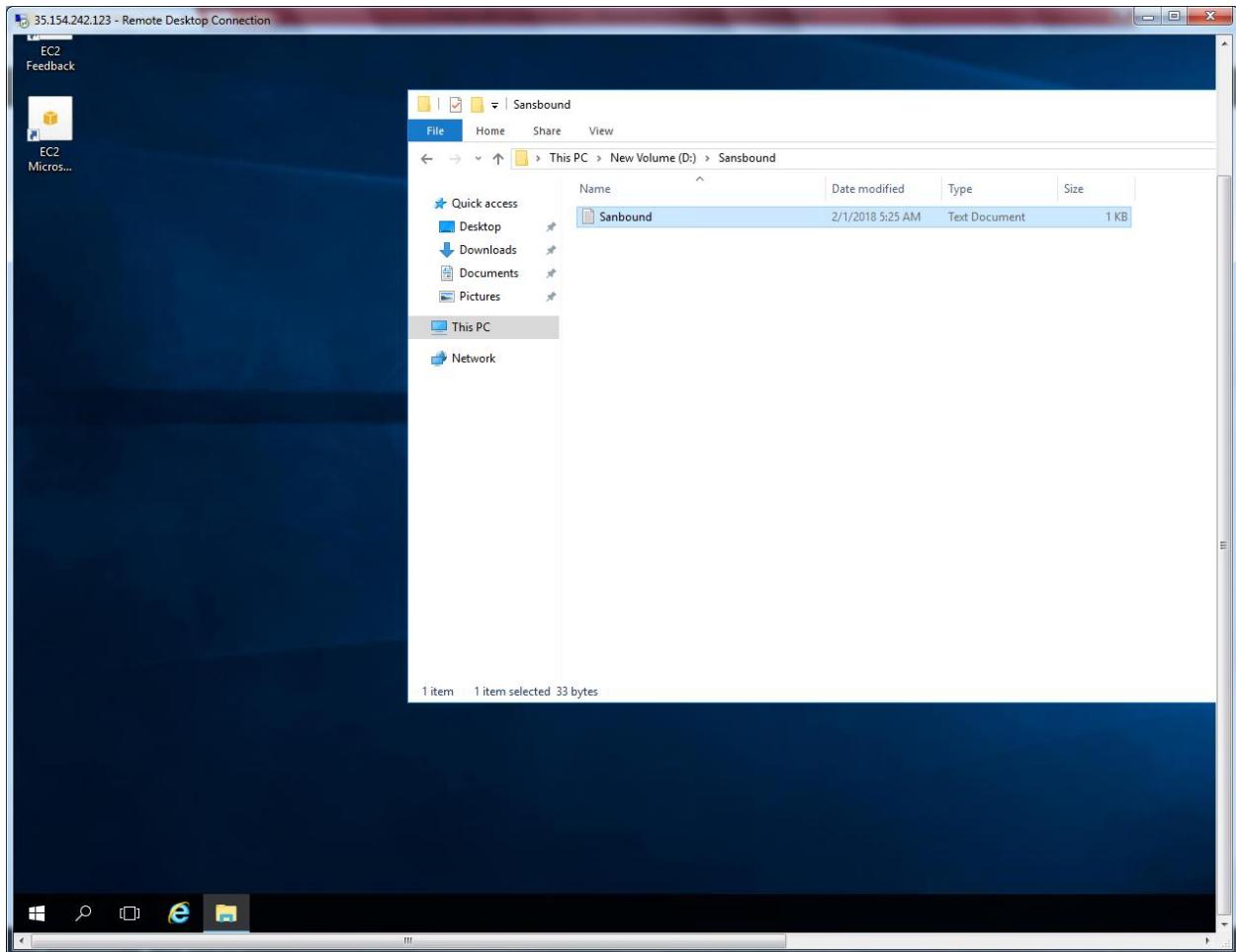


Click "Finish".

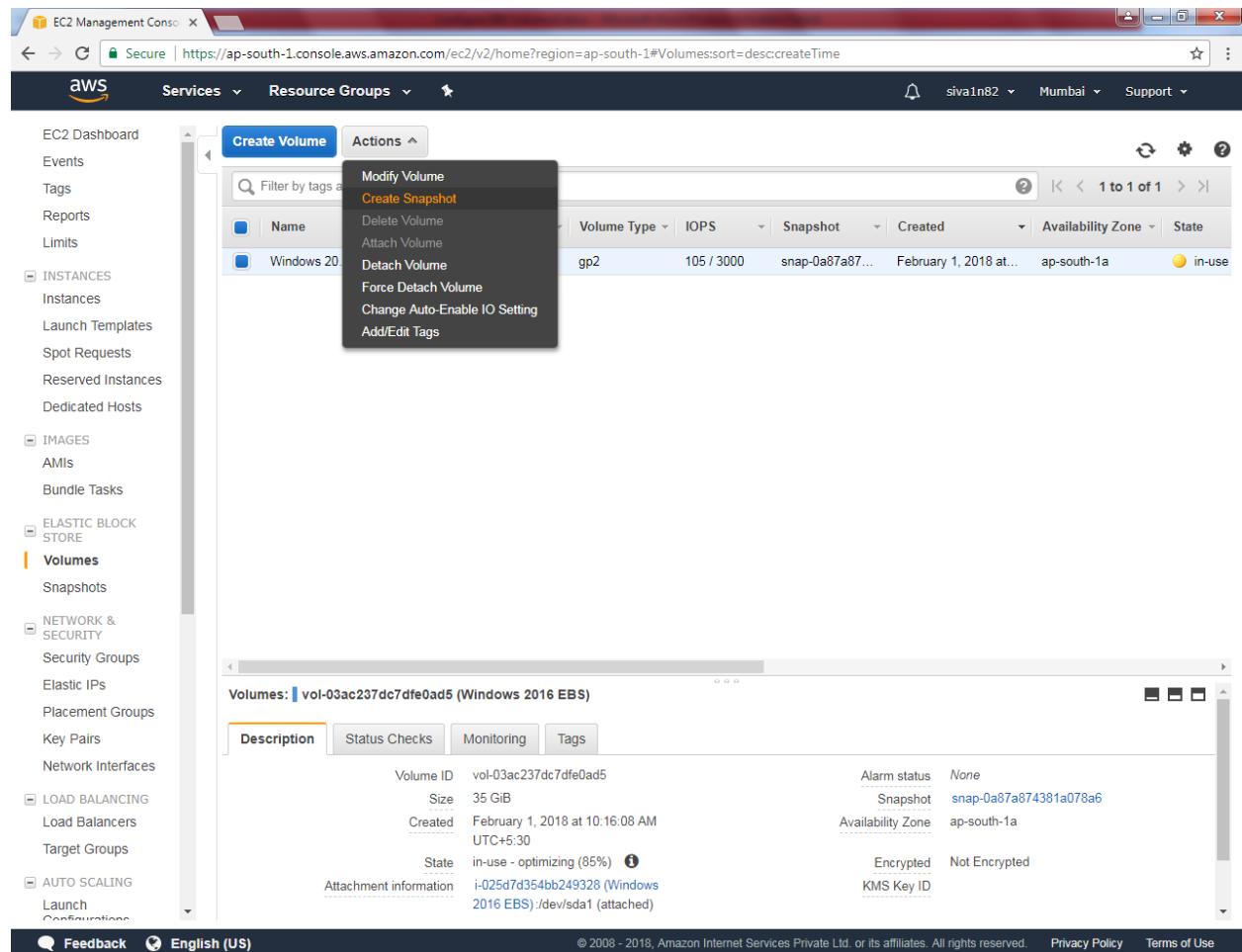
Now 5GB partition is ready.



I have stored some data in new volume.



Goto Volume, click “Create Snapshot”.



Type Name as "SansboundAMI" and Description as "Sansbound AMI".

**Create Snapshot**

**Volume** ⓘ vol-03ac237dc7dfe0ad5 (Windows 2016 EBS)

**Name** ⓘ SansboundAMI

**Description** ⓘ SansboundAMI

**Encrypted** ⓘ No

**Create**

Snapshot creation has been started.

**Create Snapshot**

**Snapshot Creation Started**  
View snapshot snap-0c3e70ee43a7fb0b5

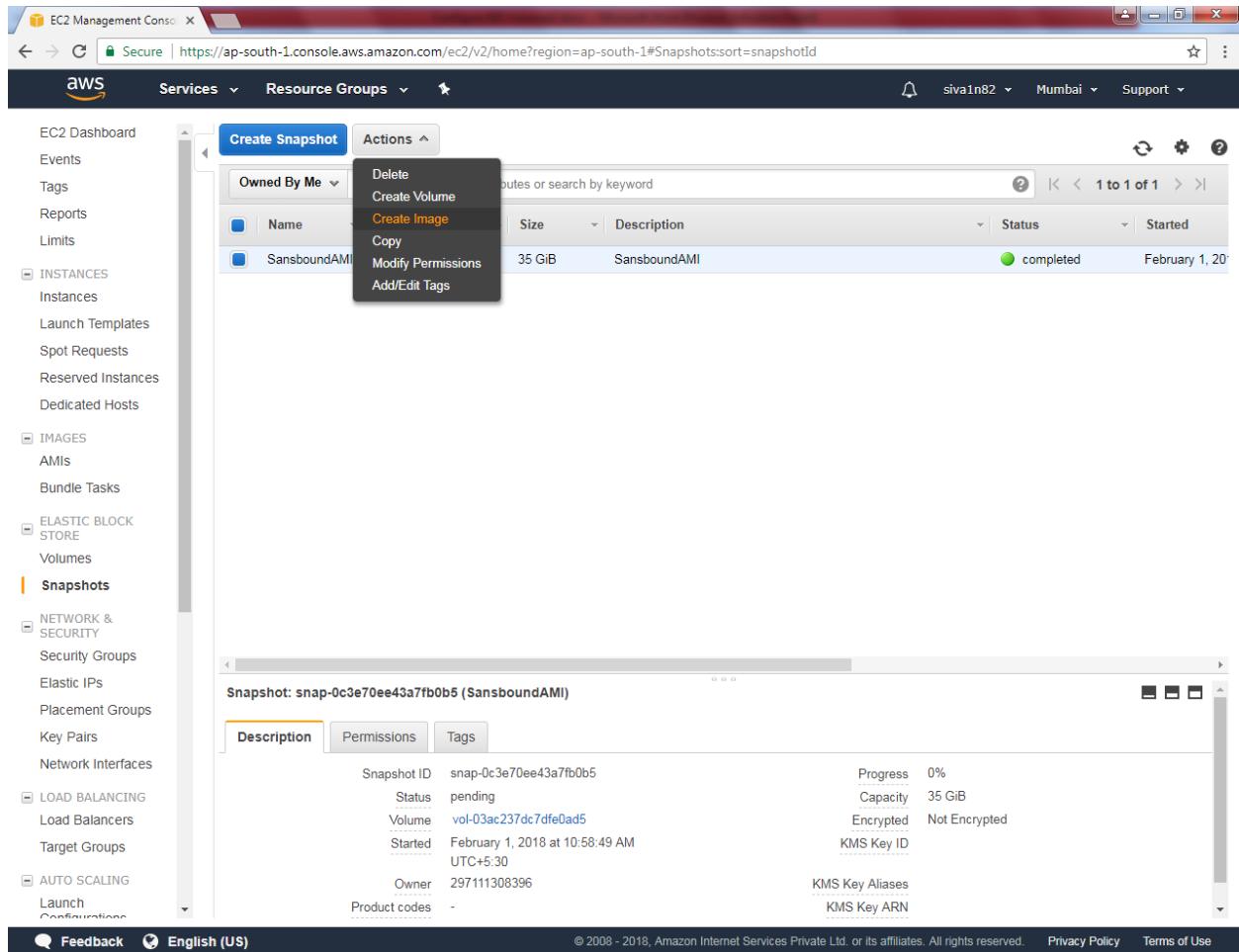
**Close**

Click snapshot menu,

Now snapshot is completed.

The screenshot shows the AWS EC2 Management Console interface. On the left, there is a navigation sidebar with various service links like EC2 Dashboard, Instances, AMIs, and Snapshots. The 'Snapshots' link is currently selected and highlighted in orange. The main content area displays a table of snapshots. One row is selected, showing details for a snapshot named 'SansboundAMI'. The status of this snapshot is 'completed', and it was started on February 1, 2018. Below the table, a detailed view of the selected snapshot ('Snapshot: snap-0c3e70ee43a7fb0b5 (SansboundAMI)') is shown. This view includes tabs for 'Description', 'Permissions', and 'Tags'. The 'Description' tab is active and displays various metadata fields such as Snapshot ID, Status, Volume, Started, Owner, Progress, Capacity, Encrypted, KMS Key ID, and KMS Key ARN. The progress is listed as 0%, and the capacity is 35 GiB. The owner is identified by the ID 297111308396.

Now we need to create an image by using the snapshot.



Click "create image"

Type name as SansboundAMI

Description as SansboundAMI

**And Select Hardware-assisted virtualization**

Create Image from EBS Snapshot

Name	SansboundAMI	Description	SansboundAMI						
Architecture	x86_64	Virtualization type	Hardware-assisted virtualization						
Root device name	/dev/sda1	Kernel ID	Use default						
RAM disk ID	Use default								
Block Device Mappings									
Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted	
Root	/dev/sda1	snap-0c3e70ee43a7fb0b5	35	General Purpose SSD (GP2)	105 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted	
<a href="#">Add New Volume</a>									
								<a href="#">Cancel</a>	<a href="#">Create</a>

Then click “Create”.

Create Image from EBS Snapshot

 Create Image request received.

[View pending image ami-b1d383de](#)

[Close](#)

Goto AMIs,

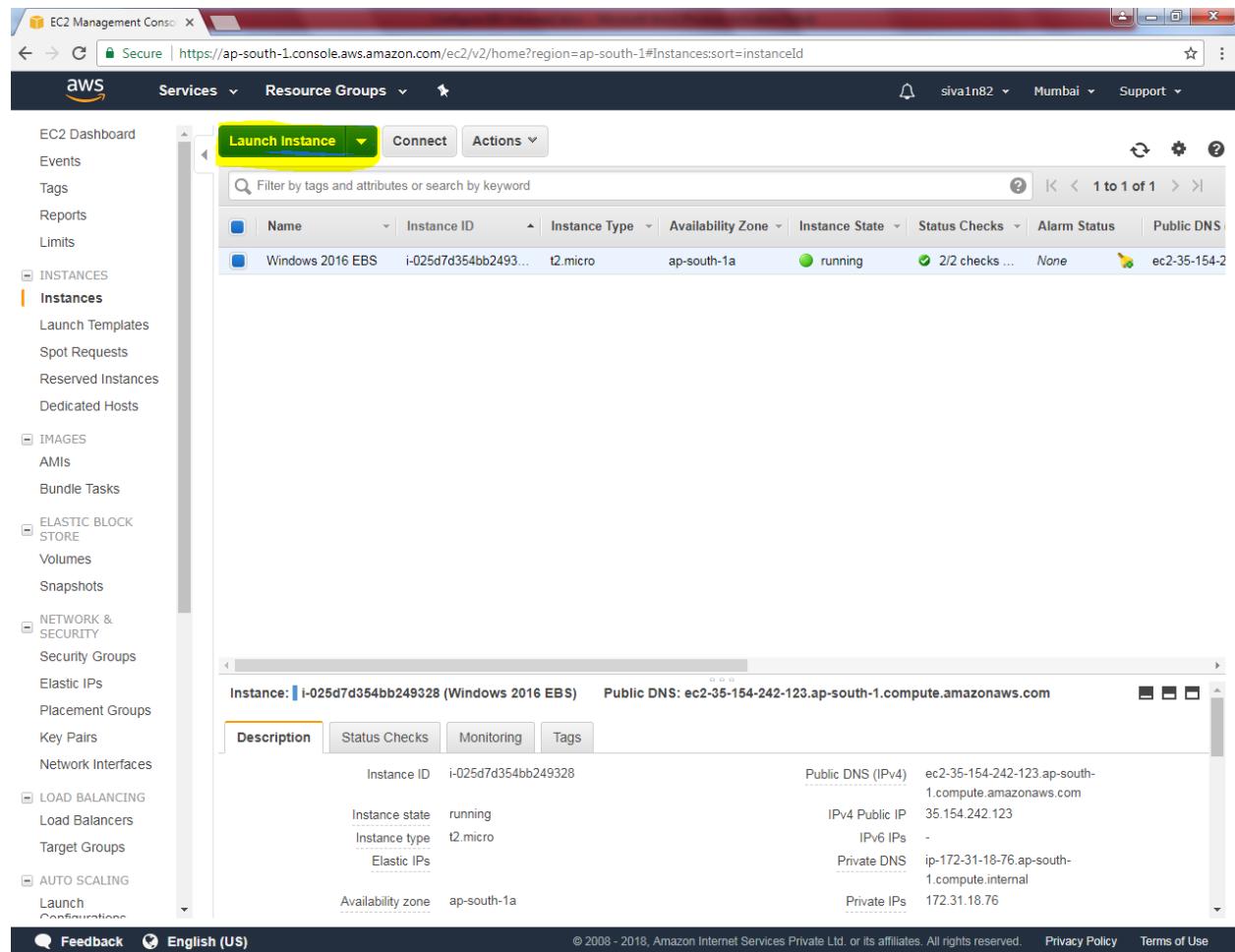
You can able to see that image is available.

The screenshot shows the AWS EC2 Management Console interface. The left sidebar navigation includes: EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES (Instances, Launch Templates, Spot Requests, Reserved Instances, Dedicated Hosts), IMAGES (AMIs, Bundle Tasks), ELASTIC BLOCK STORE (Volumes, Snapshots), NETWORK & SECURITY (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), LOAD BALANCING (Load Balancers, Target Groups), and AUTO SCALING (Launch Configurations). The main content area displays a table of AMIs under the heading "Owned by me". One entry is visible: SansboundAMI, ami-b1d383de, 297111308396, Private, available, created on February 1, 2018 at 11:08:44 AM UTC+5:30. Below the table, a detailed view of the AMI "ami-b1d383de" is shown with tabs for Details, Permissions, and Tags. The Details tab lists the following information:

AMI ID	ami-b1d383de	AMI Name	SansboundAMI
Owner	297111308396	Source	297111308396/SansboundAMI
Status	available	State Reason	-
Creation date	February 1, 2018 at 11:08:44 AM UTC+5:30	Platform	Other Linux
Architecture	x86_64	Image Type	machine

At the bottom of the page, there are links for Feedback, English (US), and footer text: © 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use.

Go to instances, Click “Launch instance”.



Click "My AMIs" then select Sansbound\_AMI.

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes the AWS logo, Services dropdown, Resource Groups dropdown, and user information (siva1n82, Mumbai, Support). Below the navigation is a progress bar with steps 1. Choose AMI through 7. Review. Step 1 is currently selected. A sub-header "Step 1: Choose an Amazon Machine Image (AMI)" is displayed, followed by a descriptive text about AMIs. On the left, a sidebar contains filters for Quick Start, My AMIs (selected), AWS Marketplace, and Community AMIs. The main content area shows a search bar and a list of AMIs. One item, "Sansbound\_AMI - ami-85d282ea", is highlighted with a yellow box. To its right are buttons for "Select" and "64-bit". Below the list are details: Root device type: ebs, Virtualization type: hvm, Owner: 297111308396. At the bottom of the page are links for Feedback, English (US), and footer text: © 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use.

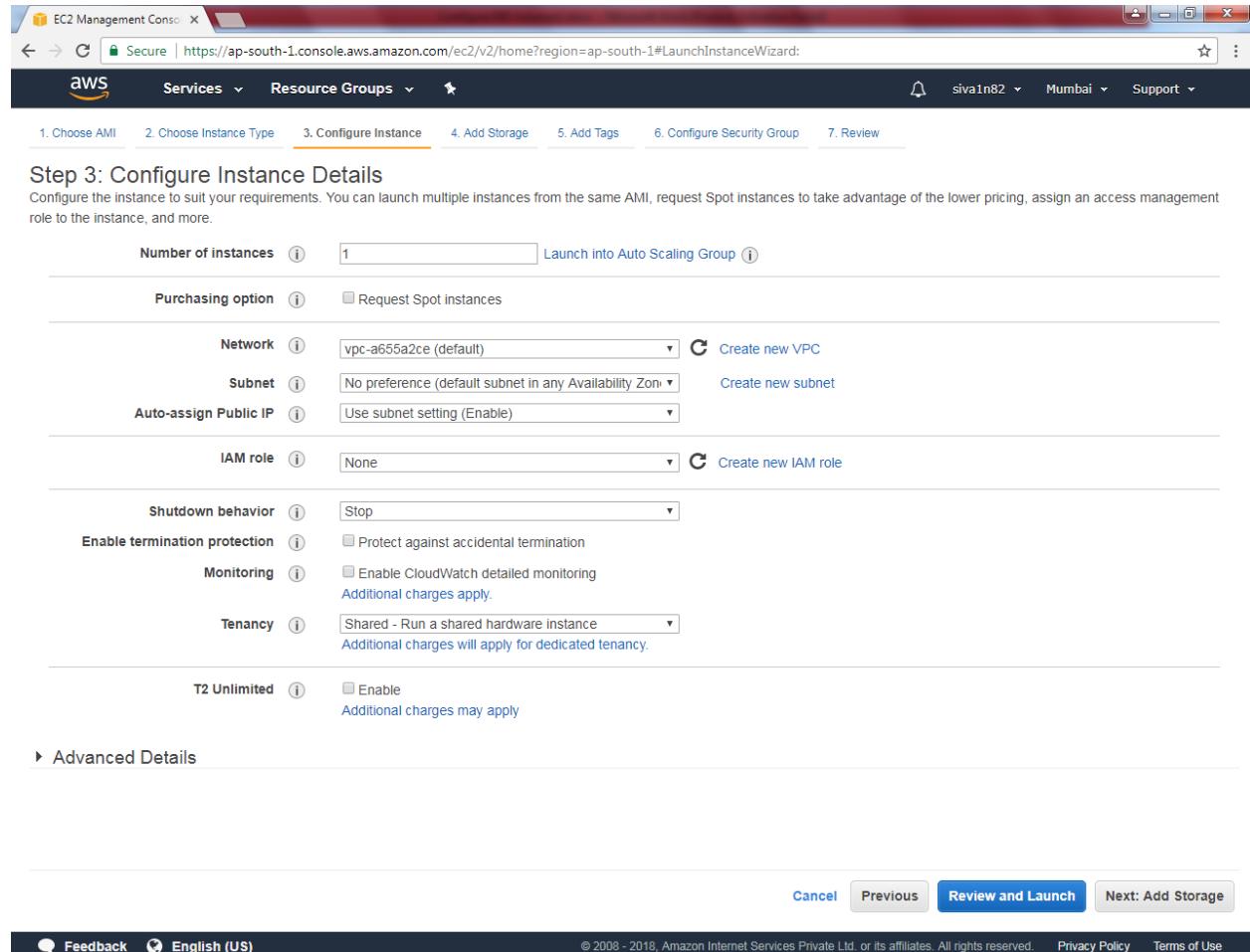
Select “t2.micro”.

The screenshot shows the AWS EC2 Management Console Launch Instance Wizard. The current step is "Step 2: Choose an Instance Type". The "2. Choose Instance Type" tab is selected. A table lists various instance types under the "General purpose" family. The "t2.micro" row is highlighted with a blue border, indicating it is selected. The table columns include Family, Type, vCPUs, Memory (GiB), Instance Storage (GB), EBS-Optimized Available, Network Performance, and IPv6 Support. The "t2.micro" row has values: 1 vCPU, 1 GiB memory, 2 GB storage, EBS only, and Low to Moderate network performance. The "IPv6 Support" column shows "Yes" for t2.micro and "No" for others. At the bottom, there are "Cancel", "Previous", "Review and Launch" (which is highlighted in blue), and "Next: Configure Instance Details" buttons.

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	<b>t2.micro</b> 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
General purpose	m4.large	2	8	EBS only	Yes	Moderate	Yes
General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes
General purpose	m4.2xlarge	8	32	EBS only	Yes	High	Yes
General purpose	m4.4xlarge	16	64	EBS only	Yes	High	Yes

Click “Next”.

Leave default settings and click “Next”.



Leave the default settings and click “next”.

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	Encrypted
Root	/dev/sda1	snap-0c3e70ee43a7fb0b5	35	General Purpose SSD (GP2)	105 / 3000	N/A	<input checked="" type="checkbox"/>	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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Key as Name and Value s “Windows 2016 AMI”.

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	(127 characters maximum)	Value	(255 characters maximum)	Instances	Volumes
Name		Windows 2016 AMI		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

Cancel Previous **Review and Launch** Next: Configure Security Group

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Select using existing group “Mumbai sec Group”.

**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 ID	Name	Description	Actions
sg-a44c63cc	default	default VPC security group	<a href="#">Copy to new</a>
sg-2f2cd644	Mumbai-Sec-Group	Mumbai-Sec-Group	<a href="#">Copy to new</a>

Inbound rules for sg-2f2cd644 (Selected security groups: sg-2f2cd644)

Type <i>(i)</i>	Protocol <i>(i)</i>	Port Range <i>(i)</i>	Source <i>(i)</i>	Description <i>(i)</i>
RDP	TCP	3389	0.0.0.0/0	

[Cancel](#) [Previous](#) **Review and Launch**

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In this stage you will get some message that we need to permit port 22 / ssh to access the system. Please Leave that click "Continue".

Click "Launch".

**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.

**AMI Details**

Sansbound_AMI - ami-85d282ea	<a href="#">Edit AMI</a>
Sansbound_AMI	
Root Device Type: ebs	Virtualization type: hvm

**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**

Security Group ID	Name	Description
sg-2f2cd644	Mumbai-Sec-Group	Mumbai-Sec-Group

All selected security groups inbound rules

[Cancel](#) [Previous](#) [Launch](#)

[Feedback](#) [English \(US\)](#)

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Select the eveningaws key and click “Launch instances”.

Select an existing key pair or create a new key pair X

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**

Eveningaws ▼

I acknowledge that I have access to the selected private key file (Eveningaws.pem), and that without this file, I won't be able to log into my instance.

---

[Cancel](#) Launch Instances

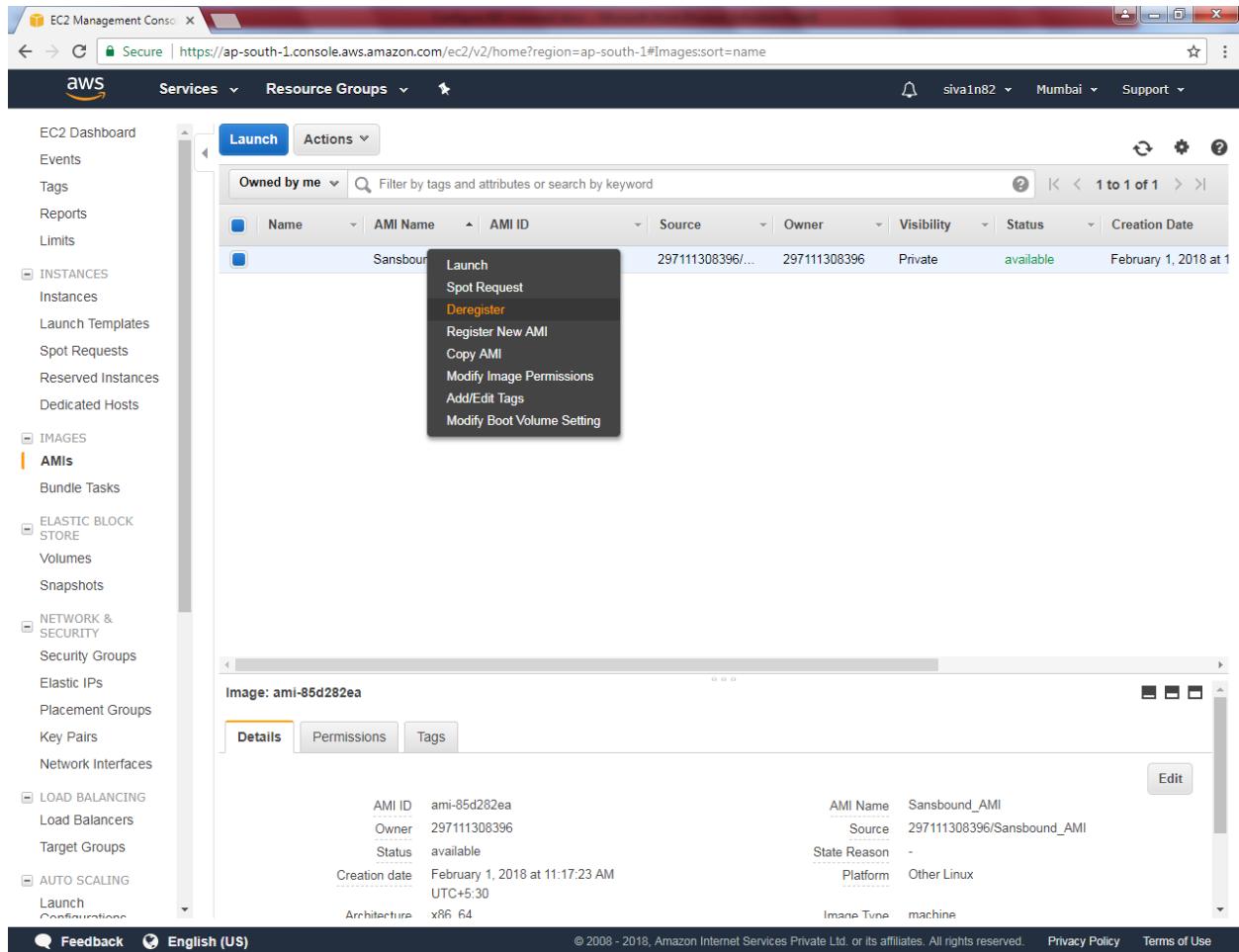
Now the server is ready.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS
Windows 2016 EBS	i-025d7d354bb2493...	t2.micro	ap-south-1a	running	2/2 checks ...	None	ec2-35-154-2
Windows 2016 AMI	i-0c8305e5b643f36c5	t2.micro	ap-south-1a	running	2/2 checks ...	None	ec2-13-127-1

The output was not come in this scenario. Hence, you need to delete/ terminate the instance.

Go to snapshots. Select snapshot and then right click. Delete.

Go to AMIs, Then you need to deregister the AMI image, it will shows some error.



Click "Deregister".

It will take some time to remove.