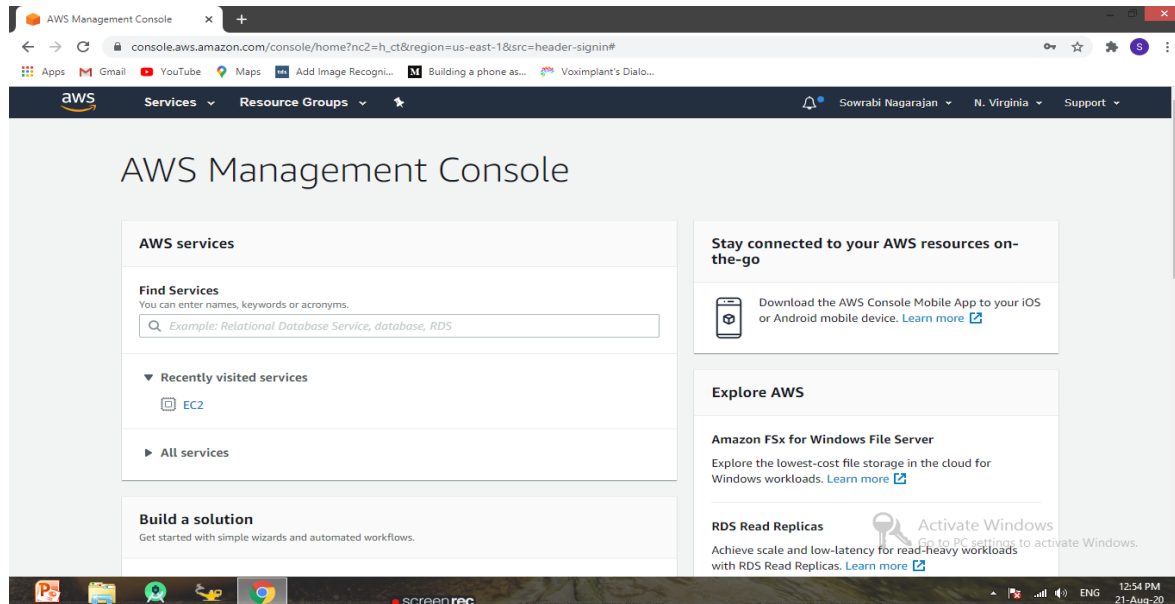
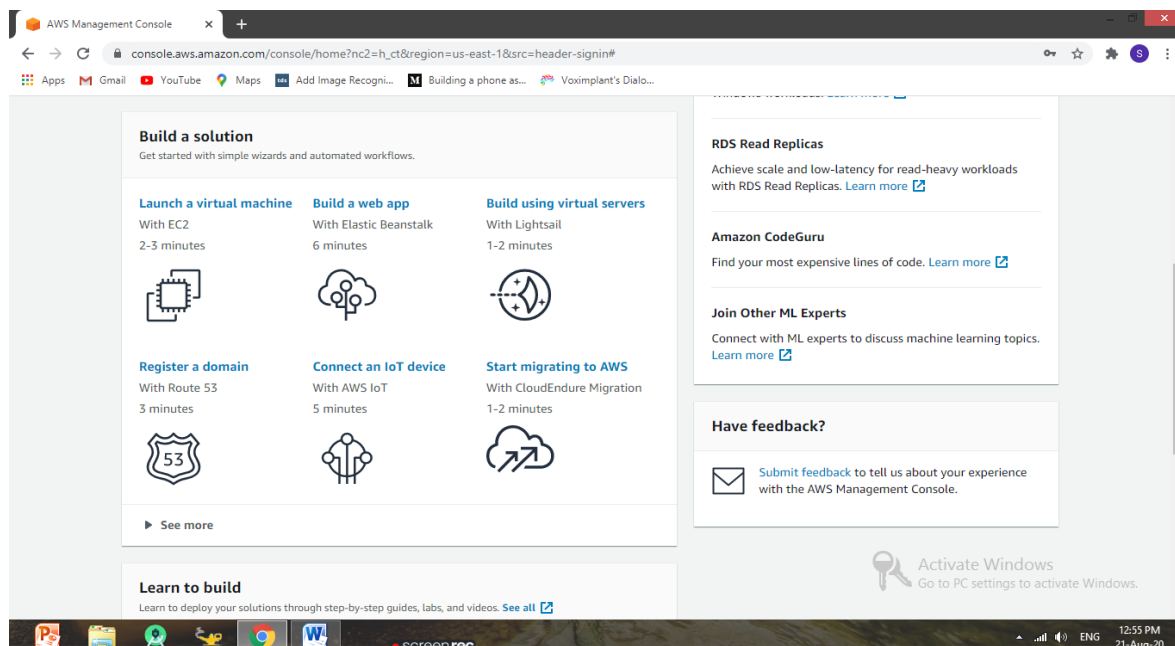


DEPLOYING A WEB SERVER IN WINDOWS INSTANCE

Step 1 : Sign in to the AWS management console



Step 2 : Click on 'Launch a virtual machine with EC2'



Step 3 : Choose an Amazon Machine Image (AMI)

Launch instance wizard | EC2 M... x +

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

[Cancel and Exit](#)

OS	AMI Name	Architecture	Action
SUSE Linux	SUSE Linux Enterprise Server 12 Service Pack 5 (HVM), EBS General Purpose (SSD) Volume Type, Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.	64-bit (x86)	Select
Windows	Microsoft Windows Server 2016 Base with Containers - ami-01fe8bc0ab9f3e99	64-bit (x86)	Select
Windows	Microsoft Windows Server 2016 Datacenter edition with Containers. [English]	64-bit (x86)	Select
Windows	Microsoft Windows Server 2016 with SQL Server 2019 Standard - ami-02c2bf85f915df5f4	64-bit (x86)	Select
Windows	Microsoft Windows 2016 Datacenter edition, Microsoft SQL Server 2019 Standard. [English]	64-bit (x86)	Select
Windows	Microsoft Windows Server 2012 R2 with SQL Server 2016 Standard - ami-0c457a8cc221e30be	64-bit (x86)	Select
Windows	Microsoft Windows Server 2012 R2 Standard edition, 64-bit architecture, Microsoft SQL Server 2016 Standard edition. [English]	64-bit (x86)	Select

Activate Windows
Go to PC settings to activate Windows.

Feedback English (US) © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

screenrec

Step 4 : Choose an Instance type

Launch instance wizard | EC2 M... x +

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

aws Services Resource Groups

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
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro	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

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Instance Details](#)

Activate Windows
Go to PC settings to activate Windows.

Feedback English (US) © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

screenrec

Step 5 : Configure Instance details

Launch instance wizard | EC2 Ma x +

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

aws Services Resource Groups

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-ddf201a0 (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

Cancel Previous Review and Launch Next: Add Storage

Feedback English (US) © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

screenrec 12:59 PM 21-Aug-20

Step 6 : Add Storage

Launch instance wizard | EC2 Ma x +

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-02230f102077bfe9c	30	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt

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) © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

screenrec 12:59 PM 21-Aug-20

Step 7 : Add tags if you need

The screenshot shows the 'Launch instance wizard' in the AWS Management Console, specifically Step 5: Add Tags. The breadcrumb trail at the top indicates the steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags (current step), 6. Configure Security Group, and 7. Review. The main heading is 'Step 5: Add Tags'. Below it, a paragraph explains that a tag is a case-sensitive key-value pair and provides an example: key = Name, value = Webserver. It also states that a copy of a tag can be applied to volumes, instances or both, and that tags will be applied to all instances and volumes. A link 'Learn more' is provided for tagging Amazon EC2 resources. Below this text is a table with two columns: 'Key' (128 characters maximum) and 'Value' (256 characters maximum). There are also links for 'Instances' and 'Volumes'. A message states 'This resource currently has no tags'. Below this, there is a button 'Add Tag' with a note '(Up to 50 tags maximum)'. At the bottom of the wizard, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Configure Security Group'. A mouse cursor is hovering over the 'Review and Launch' button. The footer of the console shows 'Feedback', 'English (US)', and copyright information for Amazon Internet Services Private Ltd. The system tray at the bottom shows the time as 1:00 PM on 21-Aug-20.

Launch instance wizard | EC2 Ma x

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances ⓘ	Volumes ⓘ
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

Go to PC settings to activate Windows.

Feedback English (US) © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

1:00 PM 21-Aug-20

Step 8 : Configure Security Group

The screenshot shows the 'Launch instance wizard' in the AWS Management Console, specifically Step 6: Configure Security Group. The breadcrumb trail at the top indicates the steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group (current step), and 7. Review. The main heading is 'Step 6: Configure Security Group'. Below it, a paragraph explains that a security group is a set of firewall rules that control the traffic for your instance. It provides an 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. A link 'Learn more' is provided for Amazon EC2 security groups. Below this text, there are two radio buttons: 'Create a new security group' (selected) and 'Select an existing security group'. Below these, there are input fields for 'Security group name' (launch-wizard-2) and 'Description' (launch-wizard-2 created 2020-08-21T13:00:36.268+05:30). Below these fields is a table with columns: Type, Protocol, Port Range, Source, and Description. The first row shows 'All traffic' for Type, 'All' for Protocol, '0 - 65535' for Port Range, 'Anywhere' for Source, and 'e.g. SSH for Admin Desktop' for Description. Below the table is a button 'Add Rule'. At the bottom of the wizard, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Configure Security Group'. A mouse cursor is hovering over the 'Review and Launch' button. A warning message is displayed: '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.' The footer of the console shows 'Feedback', 'English (US)', and copyright information for Amazon Internet Services Private Ltd. The system tray at the bottom shows the time as 1:01 PM on 21-Aug-20.

Launch instance wizard | EC2 Ma x

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name: launch-wizard-2

Description: launch-wizard-2 created 2020-08-21T13:00:36.268+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

Go to PC settings to activate Windows.

Feedback English (US) © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

1:01 PM 21-Aug-20

Step 9 : Review and launch the Instance

The screenshot shows the AWS Management Console at the 'Review Instance Launch' step. The instance configuration includes:

- AMI: t2.micro
- Instance Type: Variable
- Number of Instances: 1
- Storage: 1 EBS only
- Subnet: -
- Placement Group: Low to Moderate

Security Groups

Security group name: launch-wizard-2
Description: launch-wizard-2 created 2020-08-21T13:00:36.268+05:30

Type	Protocol	Port Range	Source	Description
All traffic	All	All	0.0.0.0/0	
All traffic	All	All	:::0	

Instance Details

Storage

Tags

Buttons: [Activate Windows](#), [Cancel](#), [Previous](#), [Launch](#)

Footer: © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

Step 10 : Create a new key pair or existing key pair inorder to launch

The screenshot shows the AWS Management Console at the 'Review Instance Launch' step, with a modal dialog open for selecting a key pair.

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:

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

Buttons: [Cancel](#), [Launch Instances](#)

Background content (faded):

- AMI: t2.micro
- Instance Type: Variable
- Number of Instances: 1
- Storage: 1 EBS only
- Subnet: -
- Placement Group: Low to Moderate

Security Groups

Security group name: launch-wizard-2
Description: launch-wizard-2 created 2020-08-21T13:00:36.268+05:30

Type	Protocol	Port Range	Source	Description
All traffic	All	All	0.0.0.0/0	
All traffic	All	All	:::0	

Instance Details

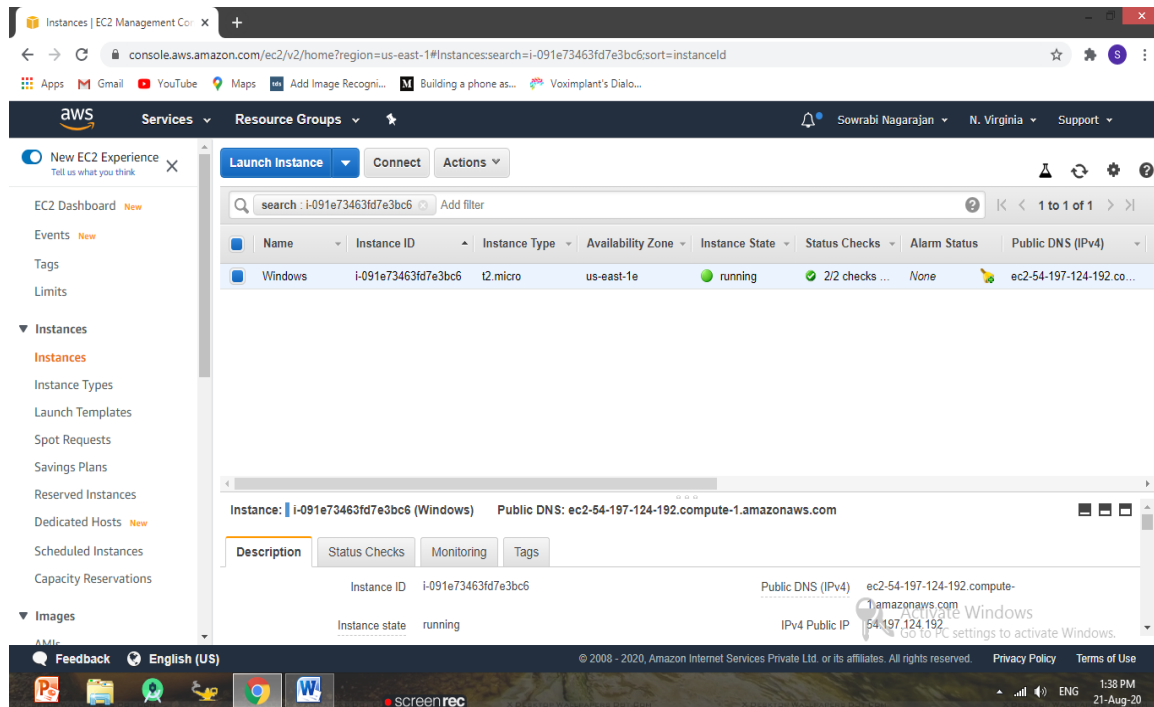
Storage

Tags

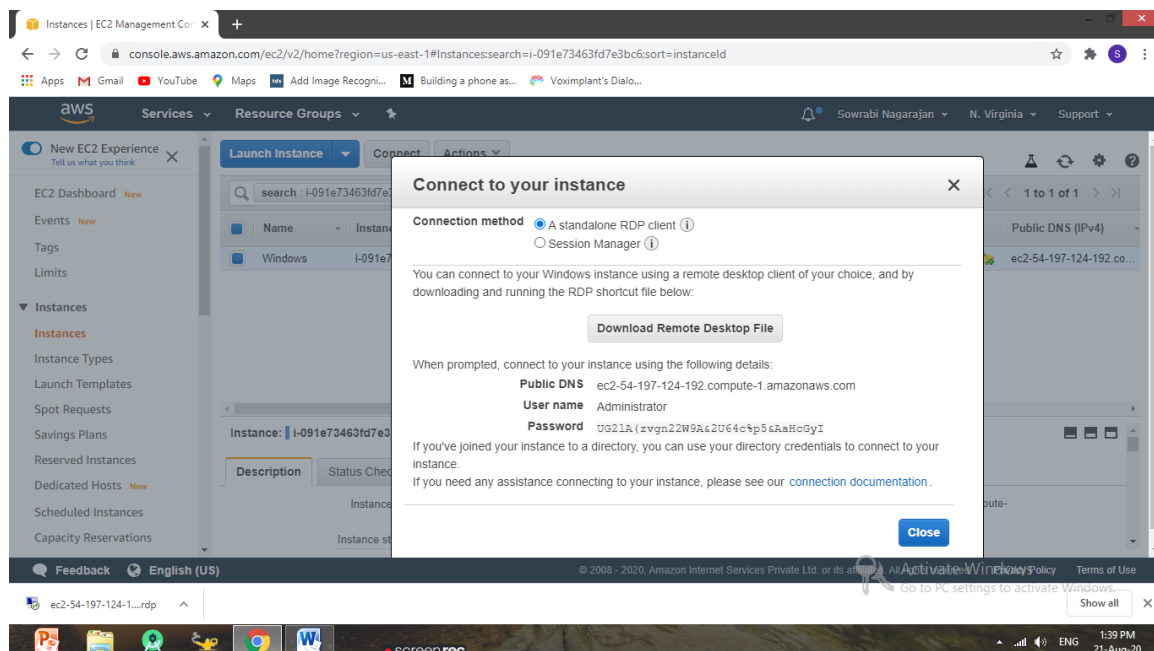
Buttons: [Cancel](#), [Previous](#), [Launch](#)

Footer: © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

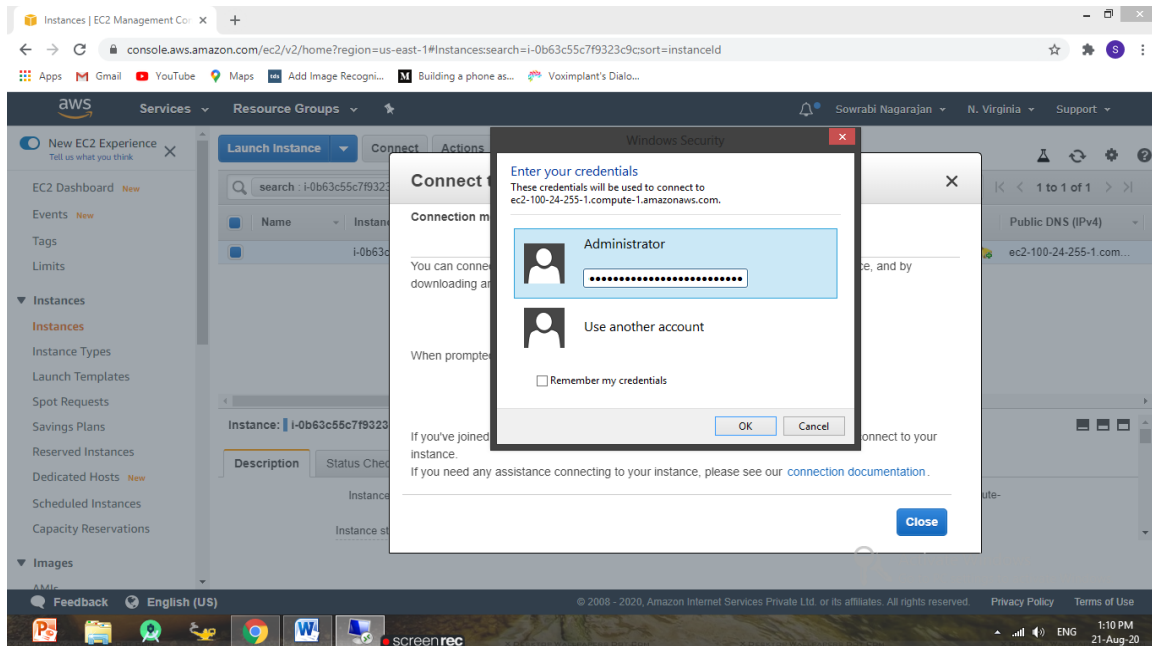
Step 11 : After the Instance launched, click on 'Connect'



Step 12 : Download remote desktop file and decrypt the password by choosing key pair which you are using

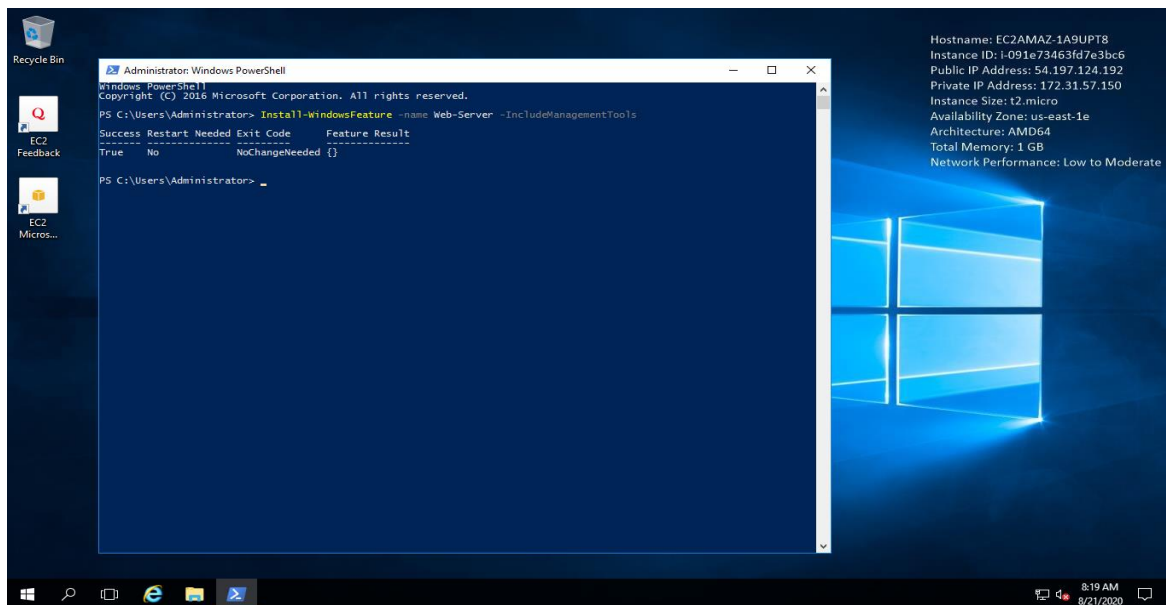


Step 13 : Open the Remote Desktop File which you downloaded and give the decrypted password.

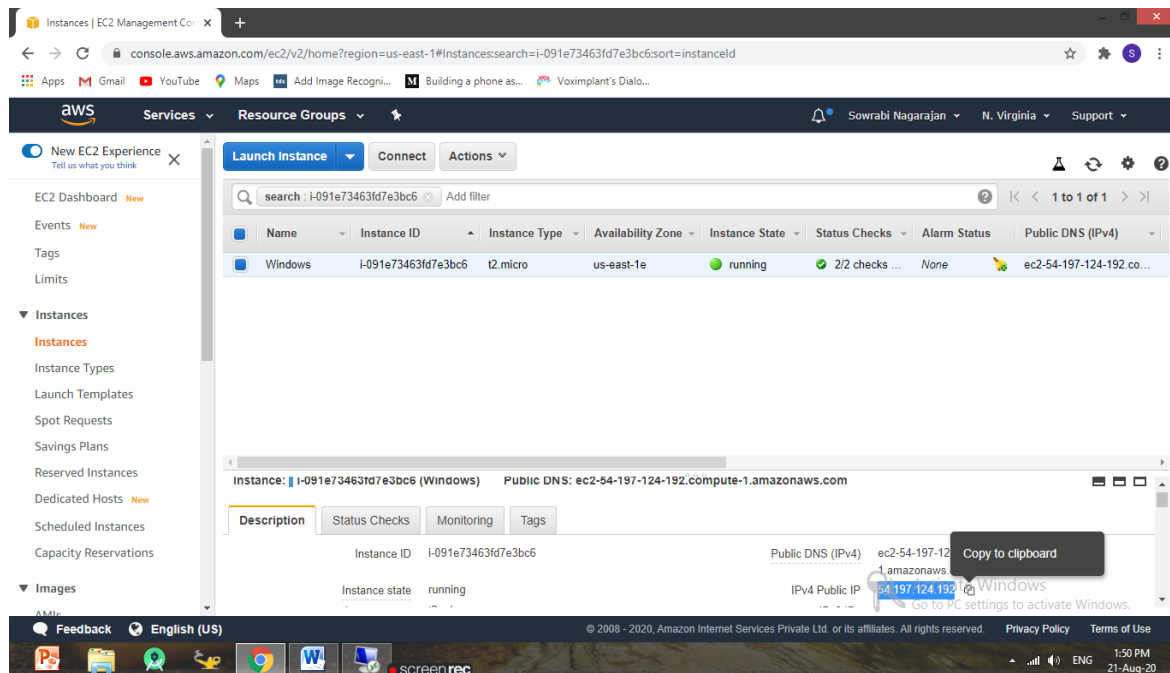


Step 14 : On connecting to the instance, open Windows power shell and give the following command to deploy the webserver

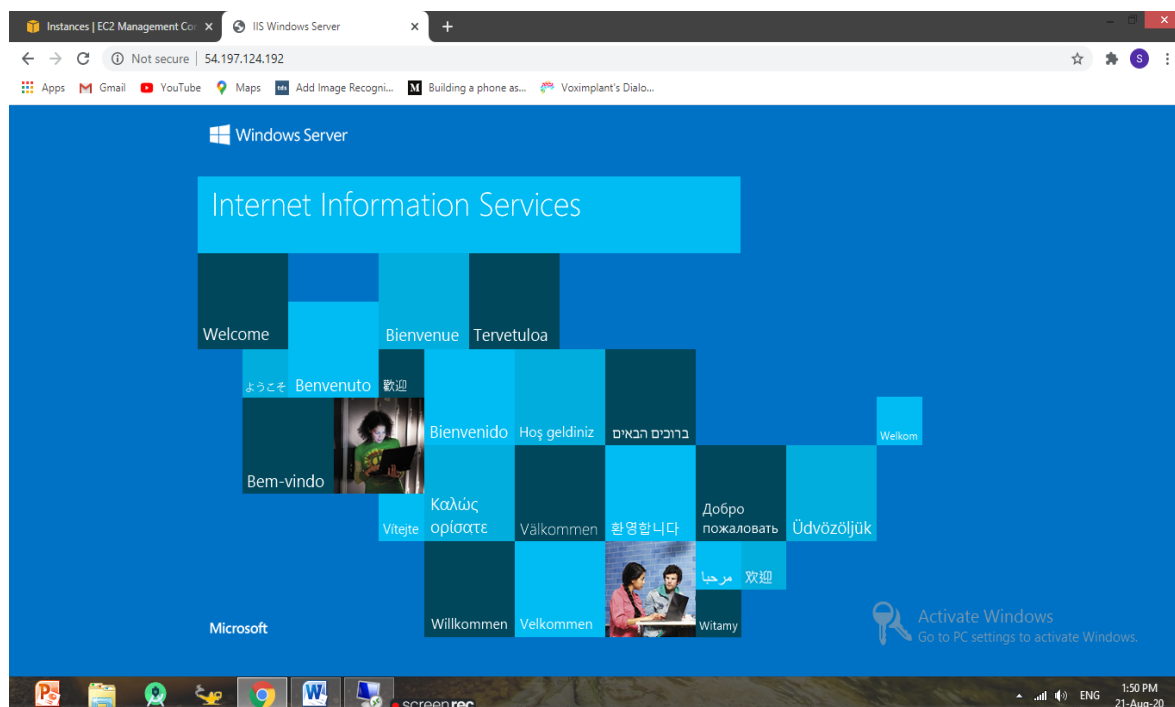
Install-WindowsFeature -name Web-Server -IncludeManagementTools



Step 15 : Copy the public IP address in the AWS console and give it in a browser to open the web server.



Step 16 : Open the webserver



These are the steps to deploy a web server in windows using AWS instance.