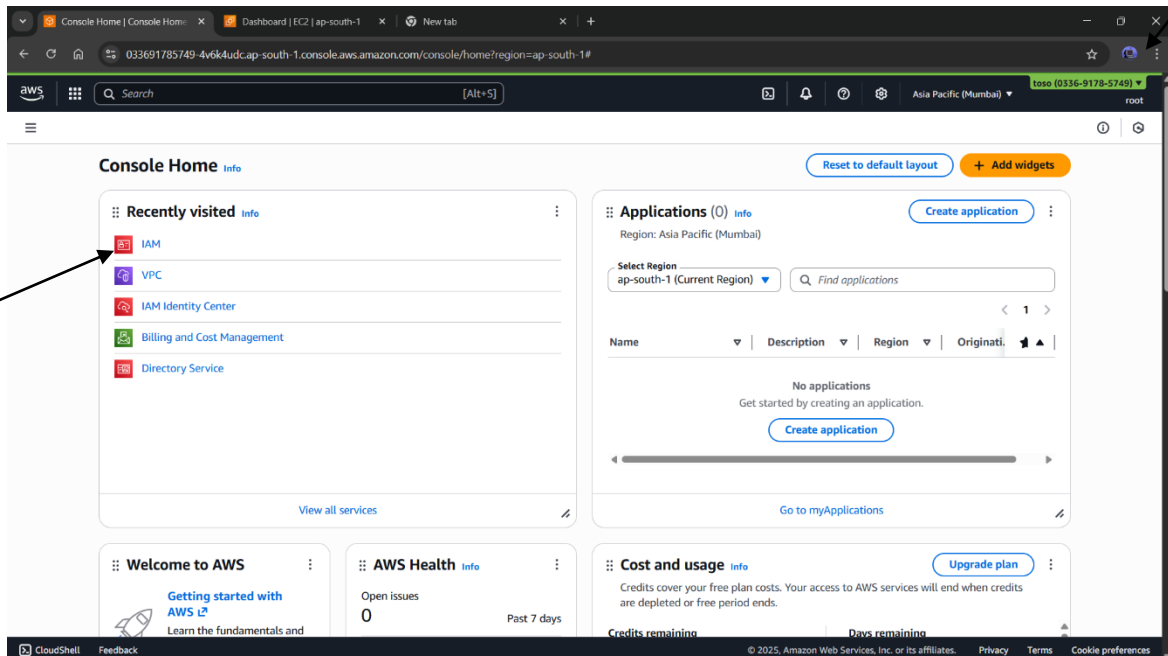


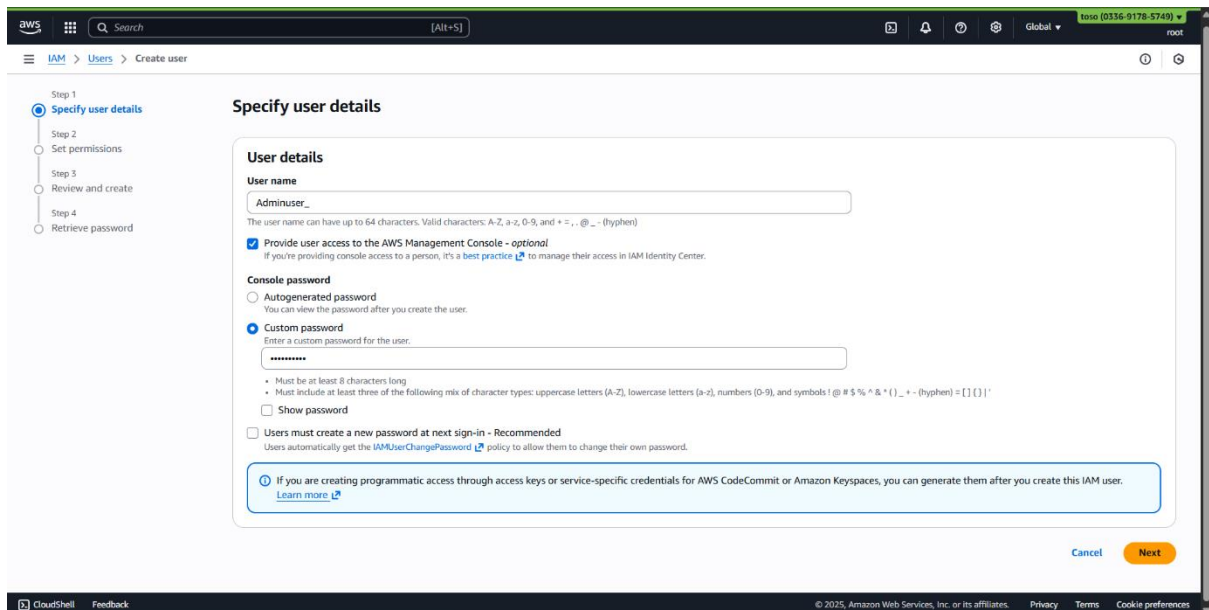
AWS ASSIGNMENT 1ST

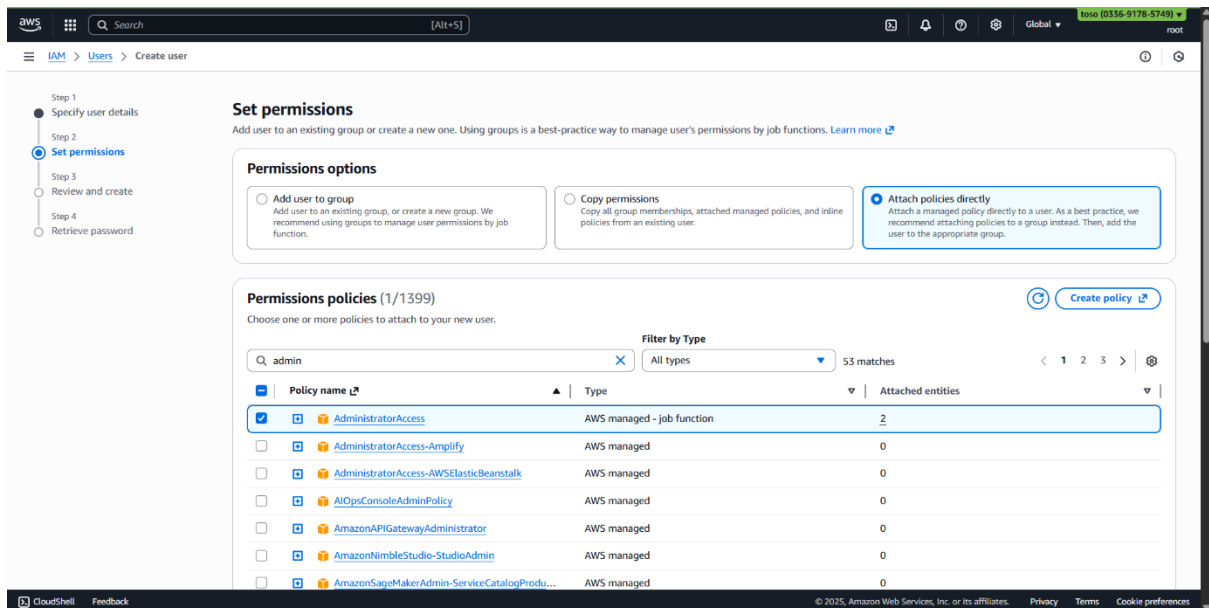
STEP 1 & 2:-

CREATE A AWS FREE TIER ACCOUNT AS A ROOT USER SO THAT WE CAN WORK IN GROUPS AND ALSO TO CREATE SUB ACCOUNTS FOR WORK MANAGEMENT

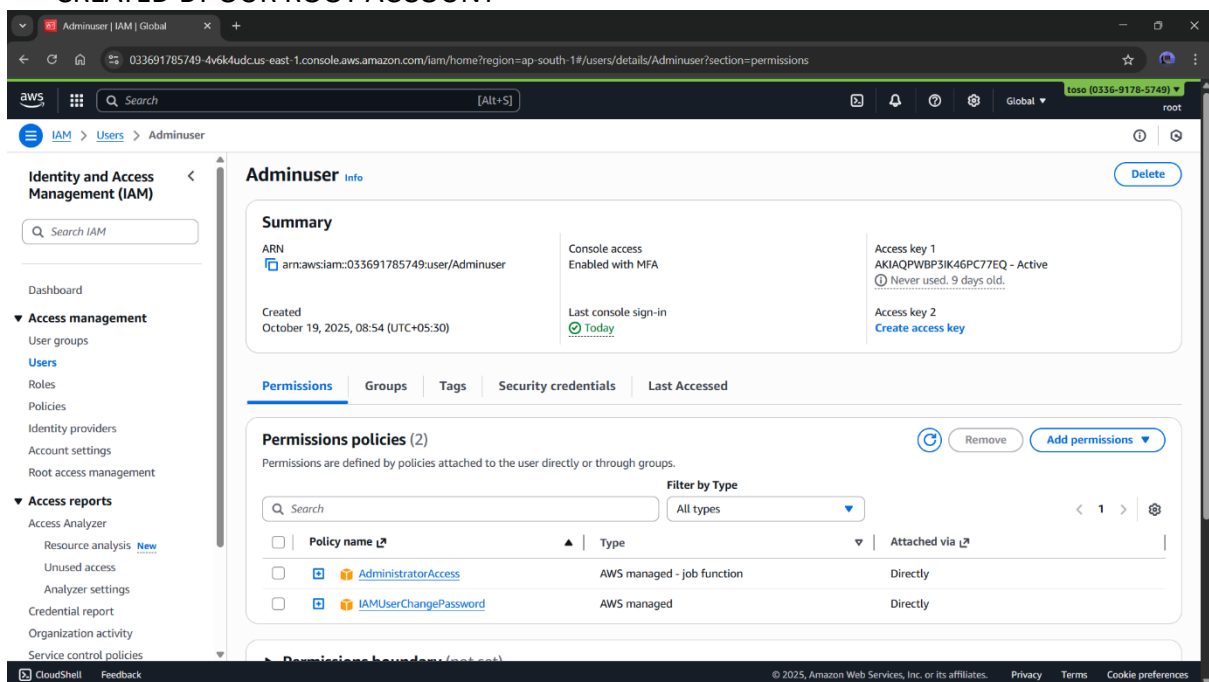


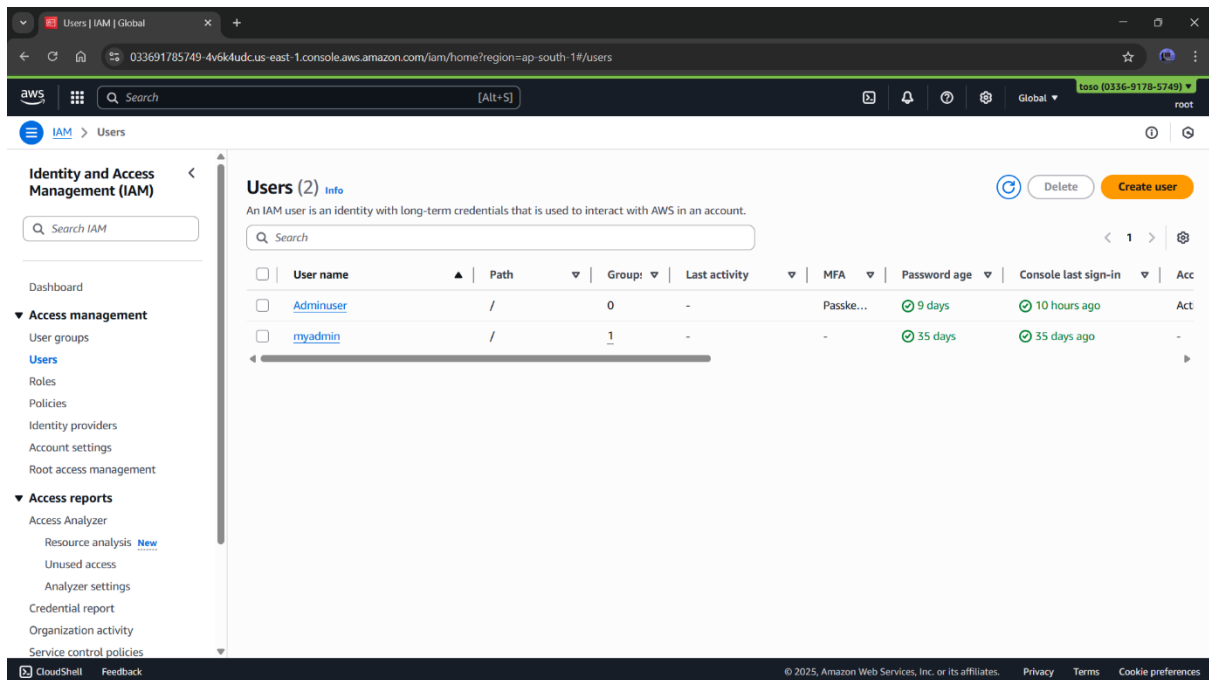
NOW WE GO TO IAM AND CREATE A USER THERE TO WORK WITH WE DON'T USE OUR ROOT ACCOUNT FOR WORKING WE CREATE USERS THERE FOR WORK WE USE DIFFERENT USERS FOR DIFFERENT WORK THIS WILL HELP US TO MANAGE THE BILLING AND POLICIES EASILY ROOT IS USED TO MANAGE THOSE IAM ACCOUNT IT'S LIKE A BOSS IS RUNNING THE COMPANY HE WILL PAY AND GET THE WORK DONE BUT HE WILL NOT WORK





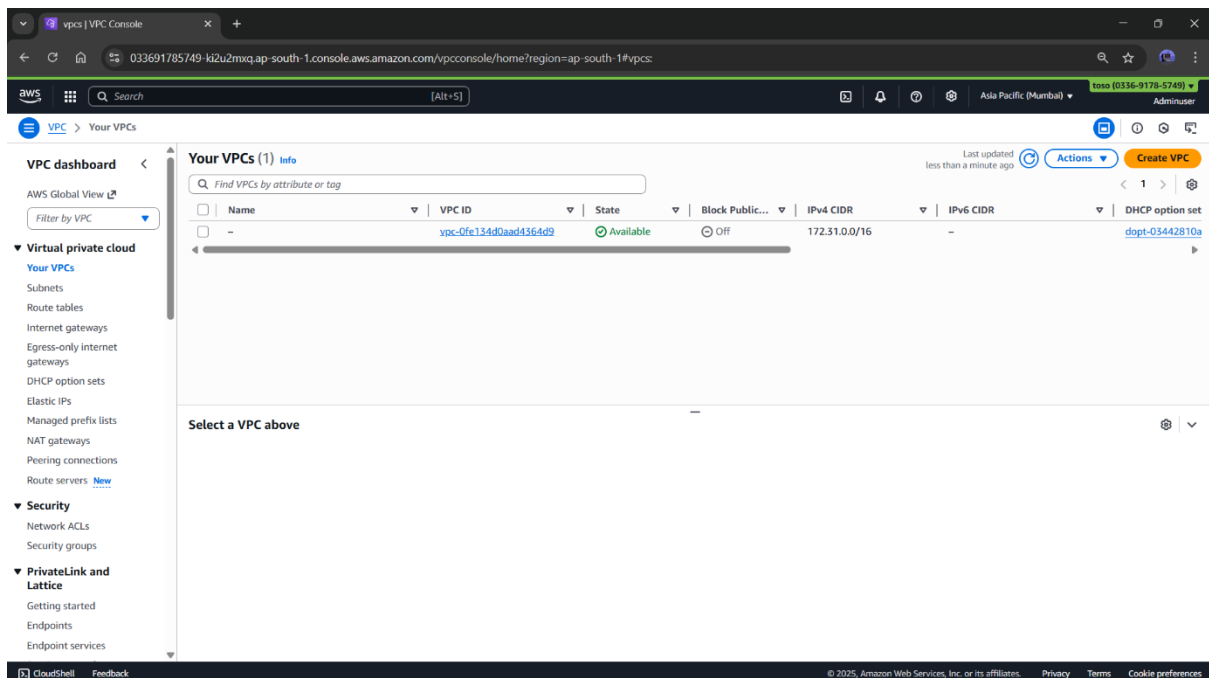
- HERE WE CREATE AN ADMINUSER IAM USER IN OUR ROOT ACCOUNT WE GIVE IT PERMISSIONS OF ADMINISTRATORACCESS AND ALSO WE ADD A MFA IN IT AND ALSO A ACCESS KEY FOR SAFETY AND NOW OUR STEP 1ST AND 2ND ARE COMPLETED NOW LET'S MOVE TO STEP 3RD FOR STEP 3RD WE WILL USE THE ADMINUSER ACCOUNT WE JUST CREATED BY OUR ROOT ACCOUNT



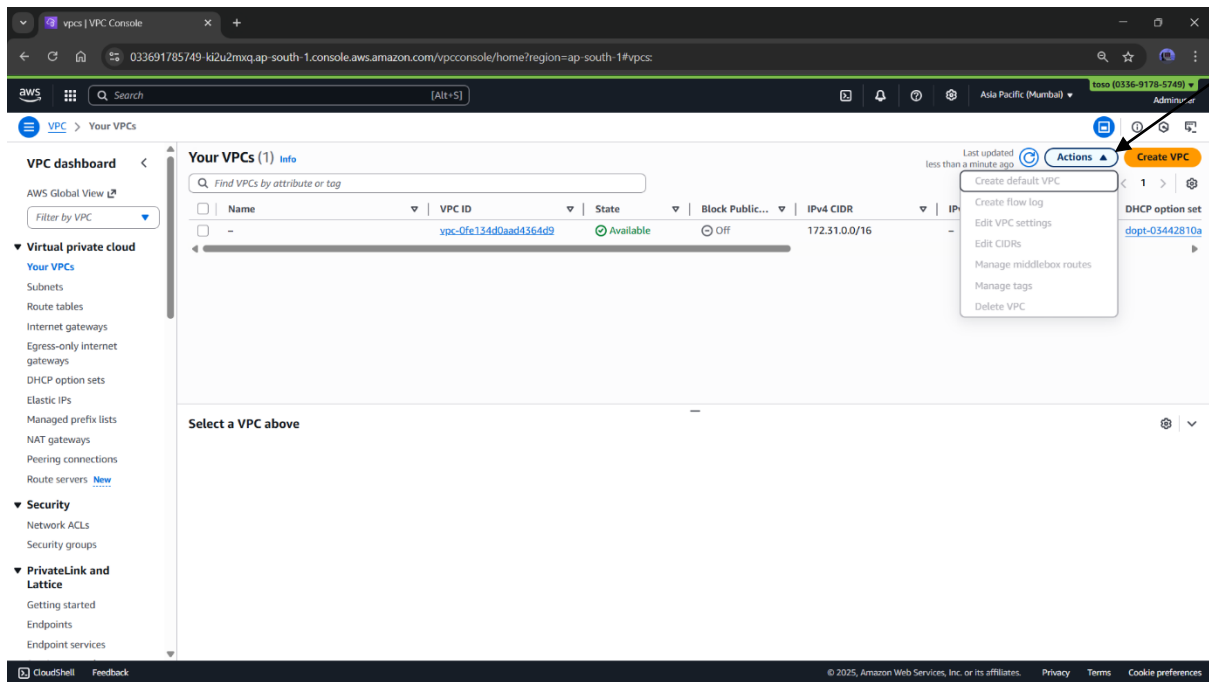


STEP 3

HERE WE ARE IN OUR ADMINUSER ACCOUNT NOW WE GO TO THE VPC SECTION AND HERE WE SAW THAT THERE IS ALREADY A VPC AVAILABLE IN OUR ACCOUNT IT'S A DEFAULT VPC BY AWS IF YOU WANT TO CREATE YOUR OWN SO YOU CAN BUT FOR WE ARE GOING WITH THIS

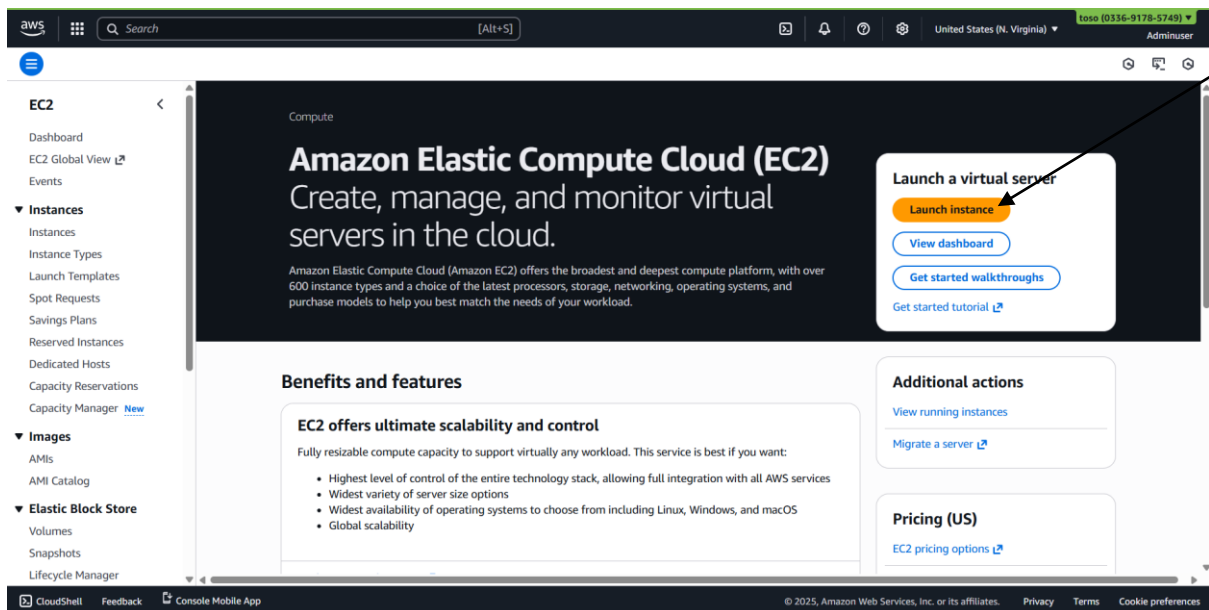


- IF YOU DELETED THE VPC AND WANT TO CREATE YOU OWN SO YOU CAN DO THAT AND IF YOU AREN'T ABLE TO CREATE VPC SO YOU CAN CREATE A DEFAULT VPC AGAIN YOU CAN SEE IT HERE



STEP 4, 5 & 6

IN THIS WE WILL CREATE A EC2 INSTANCE TO RUN OUR WEBSITE AND ALSO WE PERFORM RDP WITH ACCESS KEY PAIR AND BY FLEET MANAGER



Launch an instance | EC2 | ap-south-1 | console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name: [Add additional tags](#)

Application and OS Images (Amazon Machine Image)

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose [Browse more AMIs](#).

Recents **Quick Start**

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux Debian

Amazon Machine Image (AMI)

Microsoft Windows Server 2019 Base
ami-0d1570d839e619c34 (64-bit x86)
Virtualization: hvm ENA enabled: true Root device type: ebs [Free tier eligible](#)

Description

Microsoft Windows 2019 Datacenter edition. [English]
Microsoft Windows Server 2019 with Desktop Experience Locale English AMI provided by Amazon

Architecture **AMI ID** **Publish Date** **Username**

Summary

Number of instances: [Info](#)

Software Image (AMI)
Microsoft Windows Server 2019 ...[read more](#)
ami-0d1570d839e619c34

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 GiB

[Cancel](#) [Launch instance](#) [Preview code](#)

Launch an instance | EC2 | ap-south-1 | console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:

Launch an instance

Architecture **AMI ID** **Publish Date** **Username** [Verified provider](#)

64-bit (x86) ami-0d1570d839e619c34 2025-10-17 Administrator

Instance type [Info](#) [Get advice](#)

Instance type: [Free tier eligible](#) [All generations](#) [Compare instance types](#)

Family: t3 2 vCPU 1 GB Memory Current generation: true On-Demand Linux base pricing: 0.0112 USD per Hour
On-Demand SUSE base pricing: 0.0112 USD per Hour On-Demand Windows base pricing: 0.0204 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0147 USD per Hour On-Demand RHEL base pricing: 0.04 USD per Hour

[Additional costs apply for AMIs with pre-installed software](#)

Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

[Create new key pair](#)

For Windows instances, you use a key pair to decrypt the administrator password. You then use the decrypted password to connect to your instance.

Network settings [Info](#) [Edit](#)

Network [Info](#)
vpc-0fe134d0aad4364d9

Subnet [Info](#)
No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)
Enable

Firewall (security groups) [Info](#)
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Summary

Number of instances: [Info](#)

Software Image (AMI)
Microsoft Windows Server 2019 ...[read more](#)
ami-0d1570d839e619c34

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 GiB

[Cancel](#) [Launch instance](#) [Preview code](#)

CREATE
NEW KEY
PAIR

Launch an instance | EC2 | ap-south-1

033691785749-ki2u2mq.ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:

Search [Alt+S]

Asia Pacific (Mumbai) Instance (03336-9178-5749) Administrator

EC2 > Instances > Launch an instance

▼ Network settings info Edit

Network info

vpc-0fe134d0aad4364d9

Subnet info

No preference (Default subnet in any availability zone)

Auto-assign public IP info

Enable

Firewall (security groups) info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

We'll create a new security group called 'launch-wizard-2' with the following rules:

Allow RDP traffic from

Helps you connect to your instance

My IP

122.177.97.122/32

Allow HTTPS traffic from the internet

To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

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.

▼ Summary

Number of instances info

1

Software Image (AMI)

Microsoft Windows Server 2019 ...read more

ami-0d1570b839e619c34

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 30 GiB

Cancel Launch instance Preview code

▼ Configure storage info Advanced

1x 30 GiB gp2 Root volume, Not encrypted

Add new volume

The selected AMI contains instance store volumes, however the instance does not allow any instance store volumes. None of the instance store volumes from the AMI will be accessible from the instance

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EC2 > Instances

Successfully initiated starting of i-0511f7c772e29d995

Last updated less than a minute ago

Connect Instance state Actions Launch instances

Find instance by attribute or tag (case-sensitive) All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs	Monitor
my web server	i-0511f7c772e29d995	Running	t3.micro	3/3 checks passed	View alarms	ap-south-1b	ec2-65-2-91-241.ap-sou...	65.2.91.241	65.2.91.241	--	disable

i-0511f7c772e29d995 (my web server)

Details Status and alarms Monitoring Security Networking Storage Tags

▼ Instance summary info

Instance ID

i-0511f7c772e29d995

IPv6 address

--

Hostname type

IP name: ip-172-31-6-46.ap-south-1.compute.internal

Public IPv4 address

65.2.91.241 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-31-6-46.ap-south-1.compute.internal

Private IPv4 addresses

172.31.6.46

Public DNS

ec2-65-2-91-241.ap-south-1.compute.amazonaws.com | open address

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Connect to instance | EC2 | ap-south-1

033691785749-kj2u2mxq.ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-0511f7c772e29d995

Search [Alt+S]

Asia Pacific (Mumbai) Instance (i-0336-9178-5749) Administrator

EC2 > Instances > i-0511f7c772e29d995 > Connect to instance

Successfully initiated starting of i-0511f7c772e29d995

Connect

Connect to an instance using the browser-based client.

Session Manager

RDP client

EC2 serial console

Record RDP connections

You can now record RDP connections using AWS Systems Manager just-in-time node access. [Learn more](#)

Try for free

Instance ID

i-0511f7c772e29d995 (my web server)

Connection Type

Connect using RDP client

Download a file to use with your RDP client and retrieve your password.

Connect using Fleet Manager

Connect to your instance using Fleet Manager Remote Desktop.

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 username and password:

Public DNS

ec2-65-2-91-241.ap-south-1.compute.amazonaws.com

Username

Administrator

Password

Get password

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

Cancel

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Get windows password | EC2 | ap-south-1

033691785749-kj2u2mxq.ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#GetWindowsPassword:instanceId=i-0511f7c772e29d995;previousPlace=ConnectToInstance;lang=en...

Search [Alt+S]

Asia Pacific (Mumbai) Instance (i-0336-9178-5749) Administrator

EC2 > Instances > i-0511f7c772e29d995 > Get Windows password

Get Windows password

Use your private key to retrieve and decrypt the initial Windows administrator password for this instance.

Instance ID

i-0511f7c772e29d995 (my web server)

Key pair associated with this instance

assign1st

Private key

Either upload your private key file or copy and paste its contents into the field below.

Upload private key file

assign1st.pem
1.67KB

Private key contents - optional

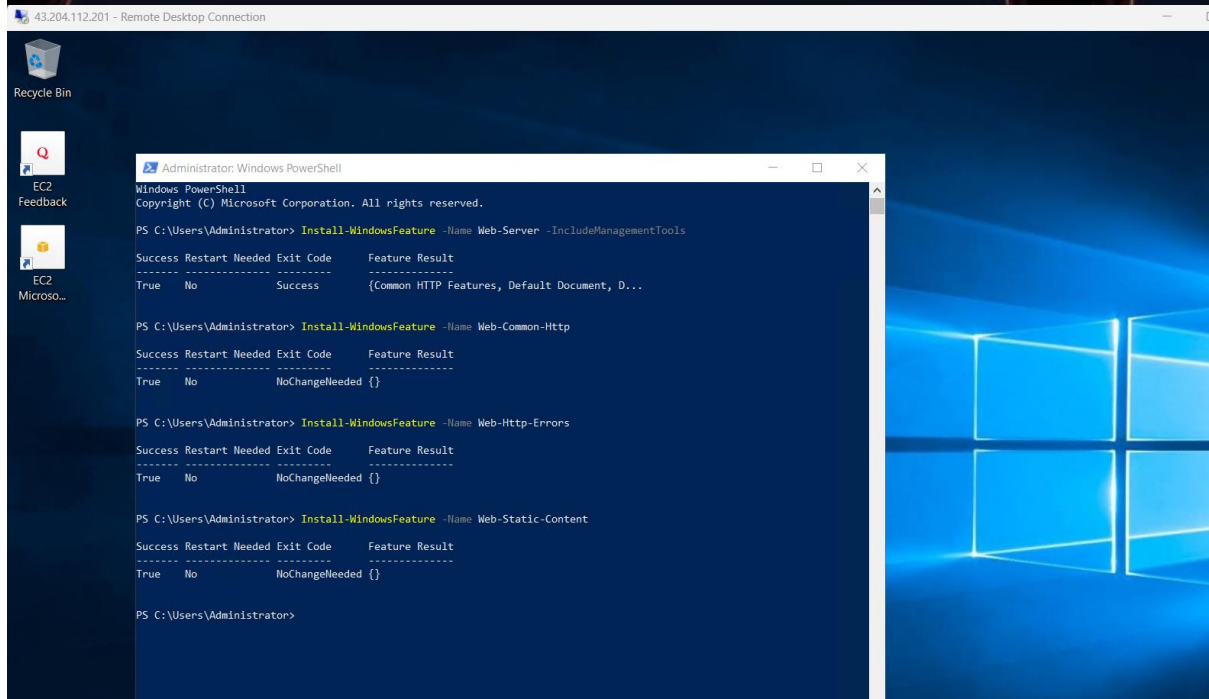
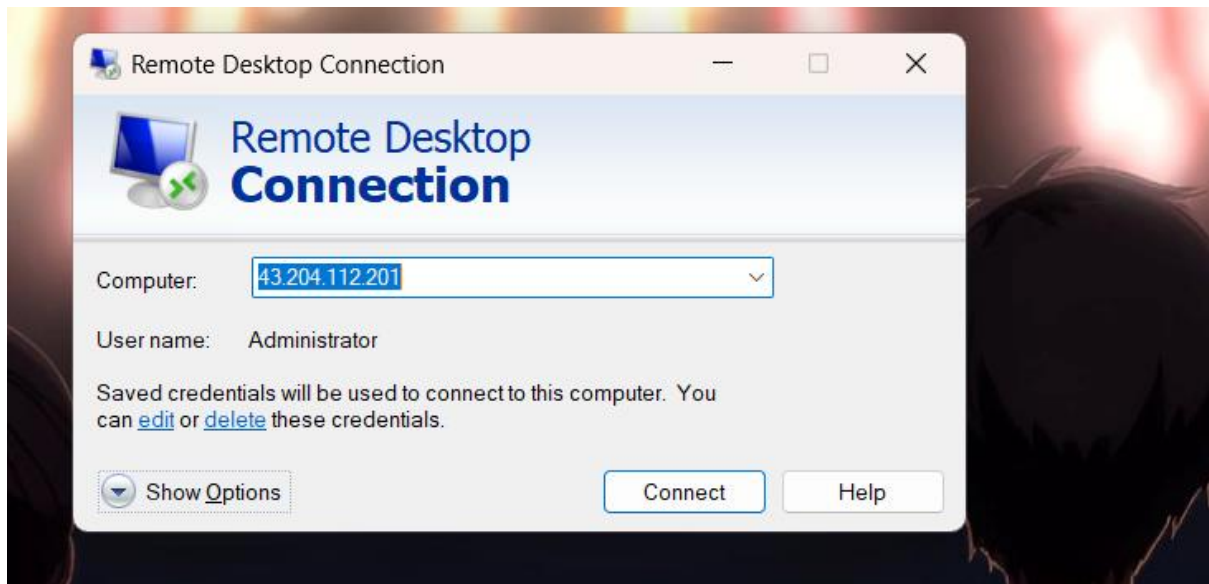
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEA345SPYbRuAQ8QJ16Tm3aCgTB8fCVUXX/SRow1PiQEOski
Rf-aL5ntSj1DIAuZ3Qk494p9V4cldpOthghNhgoso0aipo0Jp0zh7h8C+HvQQ
6J9yX5x8VgUPu+bs5VYZ2NBhCjCAmuF1Tb0LLQDCKc5DpQauneV5uakRb8
22ZOPNQ+DjYdkaLL5tw5cYUjD7JK29kz83kmWWQXSKINzbdJVBf4LIDRF8G7
77B+U6oyMeG8BkmoRJ2Jdyf59OAPFrgiaDCdpZFKE70YwWigluhb2V3kaKNL
nQT9LmLq6wJD+3Q8Gr4XRehBw431w68VW0GQIDAQABAAQZCpW7DW8Z74pWQ5
ggDYwHUVroCgs21+DbxVY2FWMQq1W1jAWT2bughthw8YUJ6nH7mZQdewfY9kN7

Cancel

Decrypt password

CloudShell Feedback

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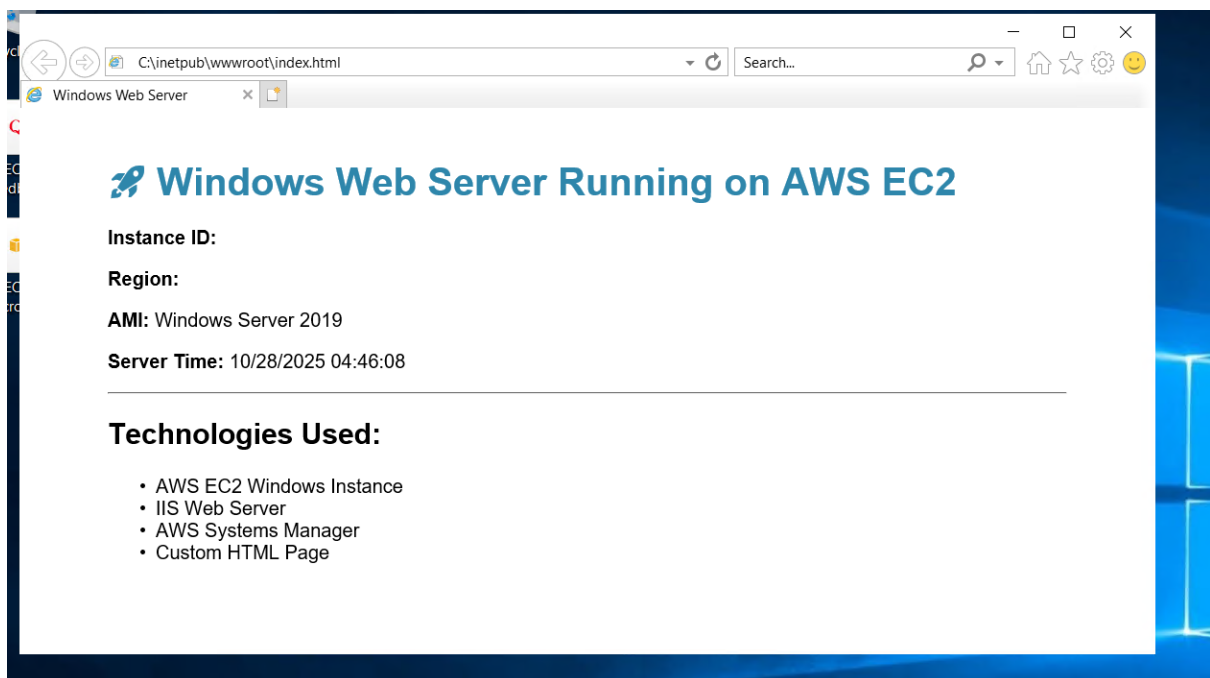
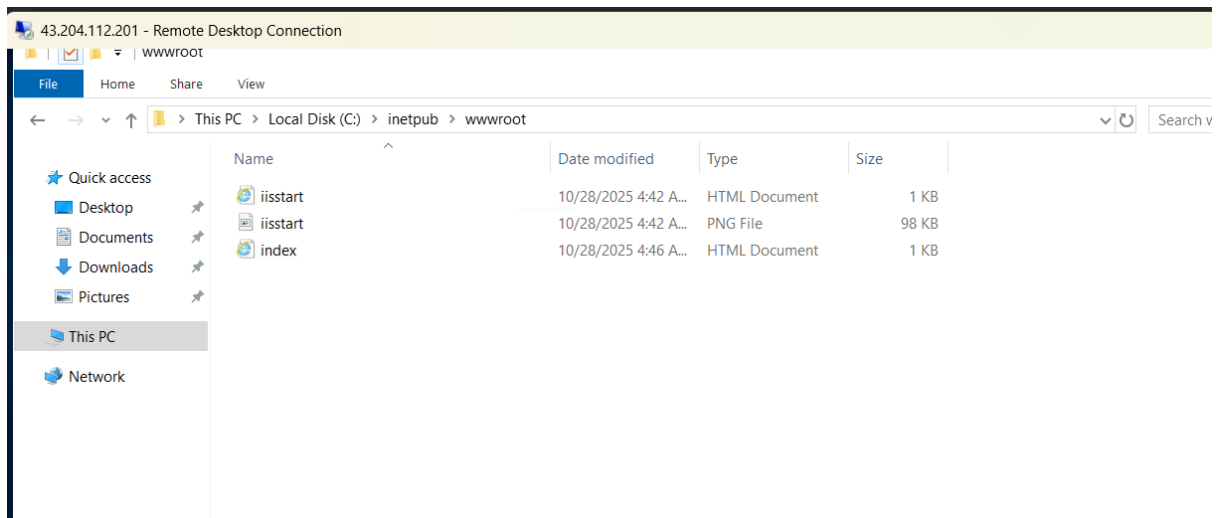
EC2
FeedbackEC2
Microso...

```
PS C:\Users\Administrator> # Create simple HTML page
>> $HTMLContent = @"
>> <!DOCTYPE html>
>> <html>
>> <head>
>> <title>Windows Web Server</title>
>> <style>
>> body { font-family: Arial, sans-serif; margin: 40px; }
>> h1 { color: #2F86AB; }
>> .container { max-width: 800px; margin: 0 auto; }
>> </style>
>> </head>
>> <body>
>> <div class="container">
>> <h1>?? Windows Web Server Running on AWS EC2</h1>
>> <p><strong>Instance ID:</strong> $((Get-EC2Instance -Region us-east-1 -InstanceId (Invoke-RestMethod -Uri 'http://169.254.169.254/latest/meta-data/instance-id')).Instances[0].InstanceId)</p>
>> <p><strong>Region:</strong> $(Invoke-RestMethod -Uri 'http://169.254.169.254/latest/meta-data/placement/region')</p>
>> <p><strong>AMI:</strong> Windows Server 2019</p>
>> <p><strong>Server Time:</strong> $(Get-Date)</p>
>> <hr>
>> <h2>Technologies Used:</h2>
>> <ul>
>> <li>AWS EC2 Windows Instance</li>
>> <li>IIS Web Server</li>
>> <li>AWS Systems Manager</li>
>> <li>Custom HTML Page</li>
>> </ul>
>> </div>
>> </body>
>> </html>
>> @"
>> # Save to web root
>> $HTMLContent | Out-File -FilePath "C:\inetpub\wwwroot\index.html" -Encoding UTF8
Invoke-RestMethod : The remote server returned an error: (401) Unauthorized.
At line:16 char:92
+ ... InstanceId (Invoke-RestMethod -Uri 'http://169.254.169.254/latest/met ...
+ ~~~~~
+ CategoryInfo          : InvalidOperation: (System.Net.HttpWebRequest:HttpWebRequest) [Invoke-RestMethod], WebExc
+ FullyQualifiedErrorId : WebCmdletWebResponseException,Microsoft.PowerShell.Commands.InvokeRestMethodCommand

Invoke-RestMethod : The remote server returned an error: (401) Unauthorized.
At line:16 char:92
+ ... InstanceId (Invoke-RestMethod -Uri 'http://169.254.169.254/latest/met ...
+ ~~~~~
```



Invoke-RestMethod -Uri 'http://169.254.169.254/latest/met ...



Step 1

Step 2

Step 3

Select trusted entity

Add permissions

Name, review, and create

Trusted entity type

☒ AWS service

Allow AWS services like EC2, Lambda, or others to perform actions in this account.

☐ AWS account

Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

☐ Web identity

Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

☐ SAML 2.0 federation

Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

☐ Custom trust policy

Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case

EC2

Choose a use case for the specified service.

Use case

☐ EC2

Allows EC2 instances to call AWS services on your behalf.

☒ EC2 Role for AWS Systems Manager

Allows EC2 instances to call AWS services like CloudWatch and Systems Manager on your behalf.

☐ EC2 Spot Fleet Role

Allows EC2 Spot Fleet to request and terminate Spot instances on your behalf.

☐ EC2 - Spot Fleet Auto Scaling

Allows Auto Scaling to access and update EC2 spot fleets on your behalf.

☐ EC2 - Spot Fleet Tagging

Allows EC2 to launch spot instances and attach tags to the launched instances on your behalf.

☐ EC2 - Spot instances

Allows EC2 Spot instances to launch and manage spot instances on your behalf.

☐ EC2 - Spot Fleet

Allows EC2 Spot Fleet to launch and manage spot instances on your behalf.

CloudShell

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Step 1

Step 2

Step 3

Select trusted entity

Add permissions

Name, review, and create

Permissions policies (1)

The type of role that you selected requires the following policy.

Policy name

AmazonSSMManagedInstanceCore

Type

AWS managed

Set permissions boundary - optional

Cancel

Previous

Next

CloudShell

Feedback

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AWS [Search] [Alt+S] Asia Pacific (Mumbai) 0316-9178-5149 Administrator

EC2 > Instances

Instances (1/1) [Info](#)

All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
my web server	i-0511f7c772c29d995	Running	t3.micro	1/3 checks passed	View alarms	ap-south-1b	ec2-45-2-91-241.ap-sa...	65.2.91.241	65.2.91.24

Actions

- Instance diagnostics
- Instance settings
- Networking
- Security
- Change security groups
- Get Windows password
- Image and templates
- Monitor and troubleshoot
- Modify IAM role

my web server (i-0511f7c772c29d995)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary [Info](#)

Instance ID
i-0511f7c772c29d995

Public IPv4 address
65.2.91.241 | [open address](#)

Instance state
Running

Private IPv4 addresses
172.31.6.46

Public DNS
ec2-45-2-91-241.ap-south-1.compute.amazonaws.com | [open address](#)

Private IP DNS name (IPv4 only)
ip-172-31-6-46.ap-south-1.compute.internal

Hostname type
IP name: ip-172-31-6-46.ap-south-1.compute.internal

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AWS [Search] [Alt+S] Asia Pacific (Mumbai) 0316-9178-5149 Administrator

EC2 > Instances > i-0511f7c772c29d995 > Modify IAM role

Modify IAM role [Info](#)

Attach an IAM role to your instance.

Instance ID
i-0511f7c772c29d995 (my web server)

IAM role
Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

[Create new IAM role](#)

[Cancel](#) [Update IAM role](#)

<https://033691785749-4k2u2mxn.ap-south-1.console.aws.amazon.com/console/home?region...> © 2025, Amazon Web Services, Inc. or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)

Try out the new AWS Systems Manager unified console
The unified console makes it easier to manage nodes across your organization - whether it's EC2 instances, hybrid servers or servers running in a multi cloud environment. [Learn more](#)

[Get started](#)

Systems Manager > **Fleet Manager** > Managed nodes

Fleet Manager [Info](#)

[Settings](#) [Account management](#)

[Configure Default Host Management](#)

You may have unmanaged Amazon EC2 instances
You can automatically configure Amazon EC2 instances as managed instances in your current account and Region by enabling Default Host Management. [Learn more](#)

Managed Nodes (1)

[Report](#) [Node actions](#)

Last fetched at: 12:09 AM

Node ID	Node state	Name	Platform type	Operating system	Resource type	Source ID	Ping status	Agent version	Image ID	EC2 instance
i-0511f7c772c29d995	Running	my web server	Windows	Microsoft Windows S...	EC2 Instance	-	Online	3.3.3050.0	ami-0d1570839e61...	Open EC2 instance

Search

Alt+S

Asia Pacific (Mumbai)

09:16:51:51:51

Adminuser

EC2

Instances

I-0511f7c772e29d995

Connect to instance

Successfully initiated starting of I-0511f7c772e29d995

Connect

info

Connect to an instance using the browser-based client.

Session Manager

RDP client

EC2 serial console

Record RDP connections

You can now record RDP connections using AWS Systems Manager just-in-time node access. [Learn more](#)

Try for free

Instance ID

I-0511f7c772e29d995 (my web server)

Connection Type

Connect using RDP client

Download a file to use with your RDP client and retrieve your password.

Connect using Fleet Manager

Connect to your instance using Fleet Manager Remote Desktop.

When prompted, connect to your instance using the following username and password:

Username

info

Administrator

Password

Get password

Fleet Manager Remote Desktop

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

Cancel

Search

Alt+S

Asia Pacific (Mumbai)

09:16:51:51:51

Adminuser

Systems Manager

Fleet Manager

Remote desktop

Remote Desktop

Add new connections

Current connections

Active connections

Connections history

Settings

You can connect to a maximum of 4 nodes in this view.

my web server

I-0511f7c772e29d995

Close

Authentication type

The type of authentication to use when connecting to the node. [Learn more](#)

User credentials

Username and password.

Key pair

Connect as Administrator using EC2 key pair.

Administrator account name

The default administrator account name might vary based on your locale.

Administrator

Key pair

Key pair associated with the instance

assign1st

Key pair content

Select a method for uploading the key pair content.

Browse your local machine to select the key pair file.

The private key file content is automatically uploaded to your browser.

Paste key pair content

Copy and paste the key pair content into the field below.

Choose file

Must be an RSA key pair.

assign1st.pem

Connect

CloudShell Feedback Console Mobile App

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