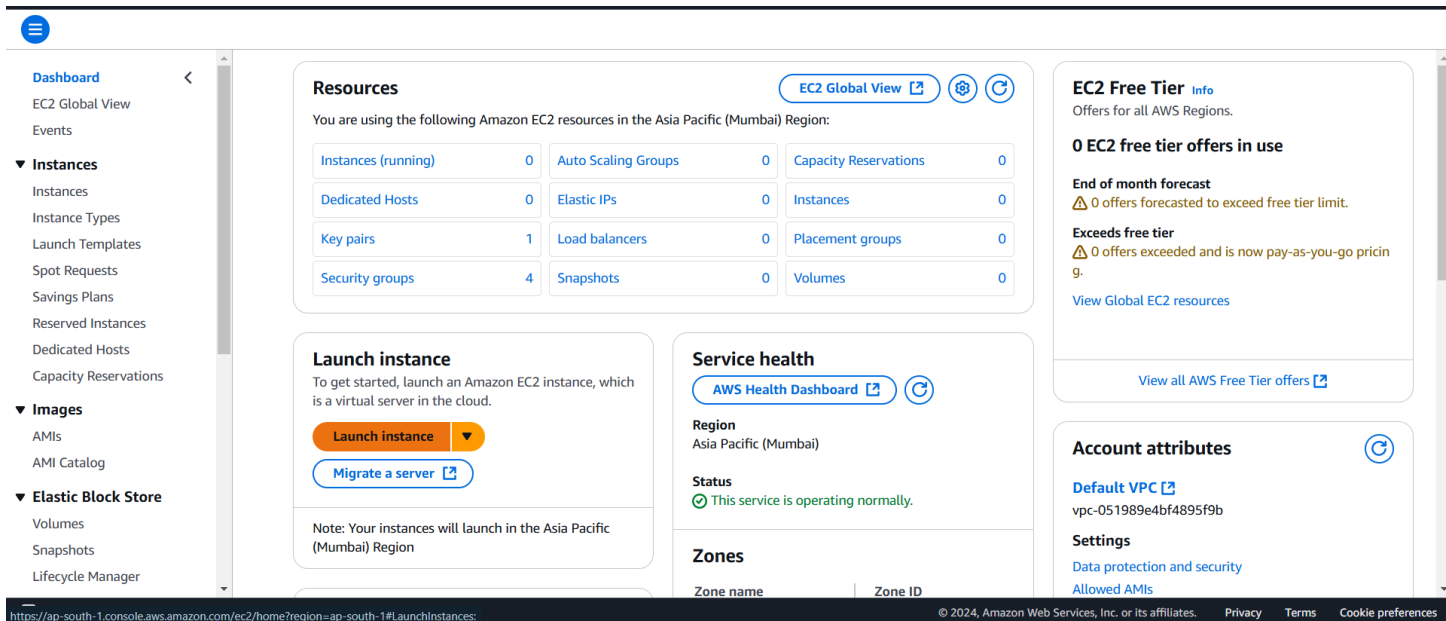


EC2(Elastic compute cloud)

Q.> How to create an Instance?

- Open your web browser and navigate to the [AWS Management Console](#).
- Log in using your **root account**.
- In the **AWS Console**, locate the **Search bar** at the top.
- Type **EC2** and press **Enter**.
- Select **EC2** from the search results.
- Then click on the **Launch Instance**.



Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud.

Launch an instance:

- Name and tags
- Name: - “My web server name (**Window-Demo**)”

EC2 > Instances > Launch an instance

Launch an instance Info

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 Info

Name

[Add additional tags](#)

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Recents

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Linux

...

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

▼ Summary

Number of instances Info

Software Image (AMI)
Microsoft Windows Server 2025 ...[read more](#)
ami-00a6b23a4dd325f30

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](#)

- Application and OS Images (Amazon Machine Image)
- Select **Window server 2019 base**

EC2 > Instances > Launch an instance

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Recents

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Linux

...

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Microsoft Windows Server 2019 Base Free tier eligible

ami-016028889ceebfc33 (64-bit (x86))

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Microsoft Windows 2019 Datacenter edition. [English]

Microsoft Windows Server 2019 with Desktop Experience Locale English AMI provided by Amazon

▼ Summary

Number of instances Info

Software Image (AMI)
Microsoft Windows Server 2019 ...[read more](#)
ami-016028889ceebfc33

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

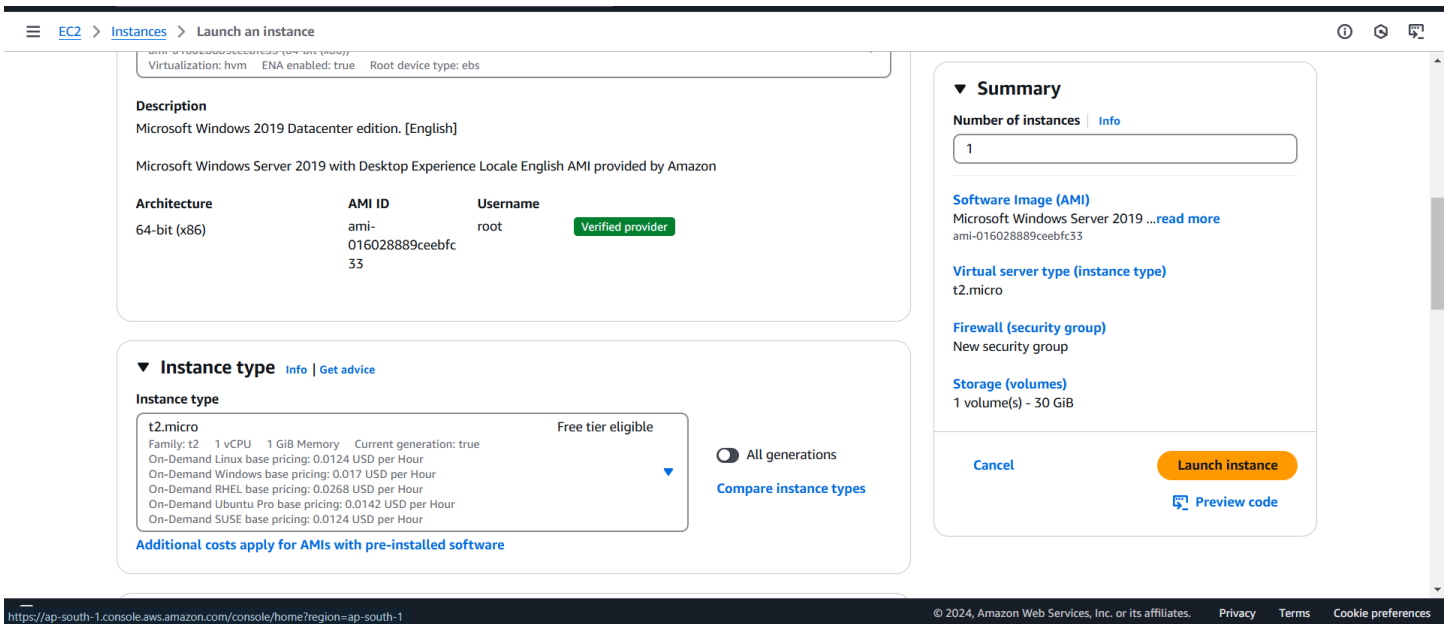
Storage (volumes)
1 volume(s) - 30 GiB

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

- Amazon Machine Image (AMI)
- **Microsoft Windows Server 2019 Base.**

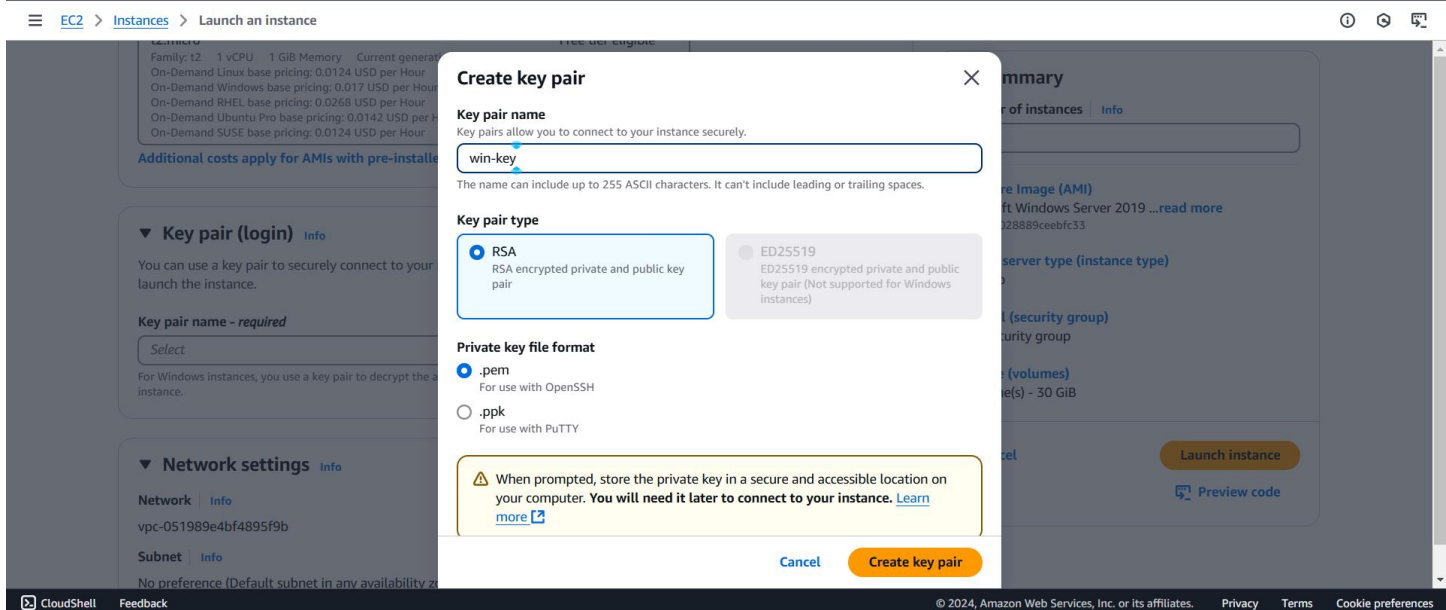
Instance type:-

- Choose instance type **t2.micro.**



Key pair (login): -

- Click on **Create new key pair**.
- Key pair name "**Win-key**".
- Private key file format --. pem
- Click on create and save.



Network settings: -

- Go to the **Firewall (security groups)**.
- Add rules to allow specific traffic to reach your instance.

- Select **Create security group**.
- We'll create a new security group called 'launch-wizard-4' with the following rules:
- Allow RDP traffic from ✓
- Allow HTTP traffic from the internet ✓

The screenshot shows the 'Launch an instance' page in the AWS Management Console, specifically the 'Network settings' tab. The page is for creating a new instance. The 'Network' section shows a VPC ID 'vpc-051989e4bf4895f9b'. The 'Subnet' is set to 'No preference (Default subnet in any availability zone)'. The 'Auto-assign public IP' is set to 'Enable'. The 'Firewall (security groups)' section is active, showing options to 'Create security group' or 'Select existing security group'. Below this, it states 'We'll create a new security group called 'launch-wizard-4' with the following rules:'. There are three rules listed: 'Allow RDP traffic from' (checked), 'Allow HTTPS traffic from the internet' (unchecked), and 'Allow HTTP traffic from the internet' (checked). The source for the RDP rule is set to 'Anywhere' (0.0.0.0/0). A warning message at the bottom states: '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 'Summary' panel on the right shows 'Number of instances' as 1, 'Software Image (AMI)' as 'Microsoft Windows Server 2019 ...read more', 'Virtual server type (instance type)' as 't2.micro', 'Firewall (security group)' as 'New security group', and 'Storage (volumes)' as '1 volume(s) - 30 GiB'. At the bottom right of the summary panel are 'Cancel' and 'Launch instance' buttons, and a 'Preview code' link.

Configure storage: -

The screenshot shows the 'Launch an instance' page in the AWS Management Console, specifically the 'Configure storage' tab. The 'Configure storage' section shows '1x' volume, '30' GiB, 'gp2' type, and 'Root volume (Not encrypted)'. A message states: 'Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage'. There is an 'Add new volume' button. Below this, it says 'The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance'. There is a 'Click refresh to view backup information' link. At the bottom, it says '0 x File systems' and an 'Edit' button. The 'Summary' panel on the right is identical to the previous screenshot, showing 'Number of instances' as 1, 'Software Image (AMI)' as 'Microsoft Windows Server 2019 ...read more', 'Virtual server type (instance type)' as 't2.micro', 'Firewall (security group)' as 'New security group', and 'Storage (volumes)' as '1 volume(s) - 30 GiB'. At the bottom right of the summary panel are 'Cancel' and 'Launch instance' buttons, and a 'Preview code' link.

Summary: -

- Number of instances: - **1**
- Click on **Launch instance**.

➤ Successful create instance. ✓

EC2 > Instances > Launch an instance

Success
Successfully initiated launch of instance (i-07dd637c0e0944d01)

► Launch log

Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)

Connect to your instance
Once your instance is running, log into it from your local computer.
[Connect to instance](#)
[Learn more](#)

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#)
[Create a new RDS database](#)
[Learn more](#)

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots.
[Create EBS snapshot policy](#)

Number of instances
You can specify more than 1 instance to launch. All the instances will launch with the same configuration.
Tip
To ensure faster instance launches, break up large requests into smaller batches. For example, create 5 separate launch requests for 100 instances each instead of 1 launch request for 500 instances.

https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1 © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Instances (1/1) Info

Last updated less than a minute ago

[Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

Find Instance by attribute or tag (case-sensitive)

Instance ID = i-07dd637c0e0944d01 [Clear filters](#)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input checked="" type="checkbox"/>	Window-demo	i-07dd637c0e0944d01	Running	t2.micro	Initializing	View alarms	ap-south-1b	ec2-15-2

i-07dd637c0e0944d01 (Window-demo)

[Details](#) [Status and alarms](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

Instance summary

Instance ID i-07dd637c0e0944d01	Public IPv4 address 15.206.178.225 open address	Private IPv4 addresses 172.31.14.44
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-15-206-178-225.ap-south-1.compute.amazonaws.com open address

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- Select the instance then copy **Public IPv4 address**
- After then copied IP address click on the **connect**.

Instances (1/1) Info

Last updated 2 minutes ago

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

Instance ID = i-07dd637c0e0944d01 Clear filters

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Window-demo	i-07dd637c0e0944d01	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-15-2

i-07dd637c0e0944d01 (Window-demo)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID i-07dd637c0e0944d01

IPv6 address -

Public IPv4 address copied 15.206.178.225 open address

Instance state Running

Private IPv4 addresses 172.31.14.44

Public IPv4 DNS ec2-15-206-178-225.ap-south-1.compute.amazonaws.com open address

Connect to instance: -

EC2 > Instances > i-07dd637c0e0944d01 > Connect to instance

Connect to instance Info

Connect to your instance i-07dd637c0e0944d01 (Window-demo) using any of these options

Session Manager RDP client EC2 serial console

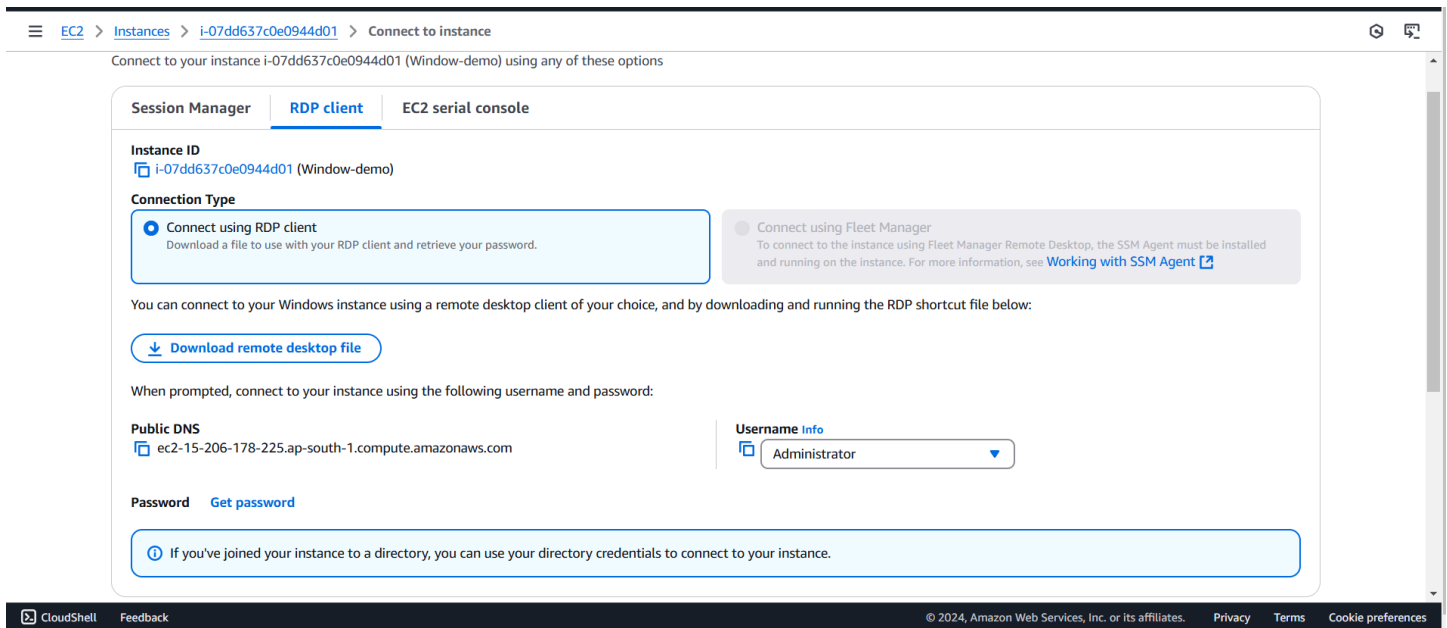
SSM Agent is not online
The SSM Agent was unable to connect to a Systems Manager endpoint to register itself with the service.

Session Manager usage:

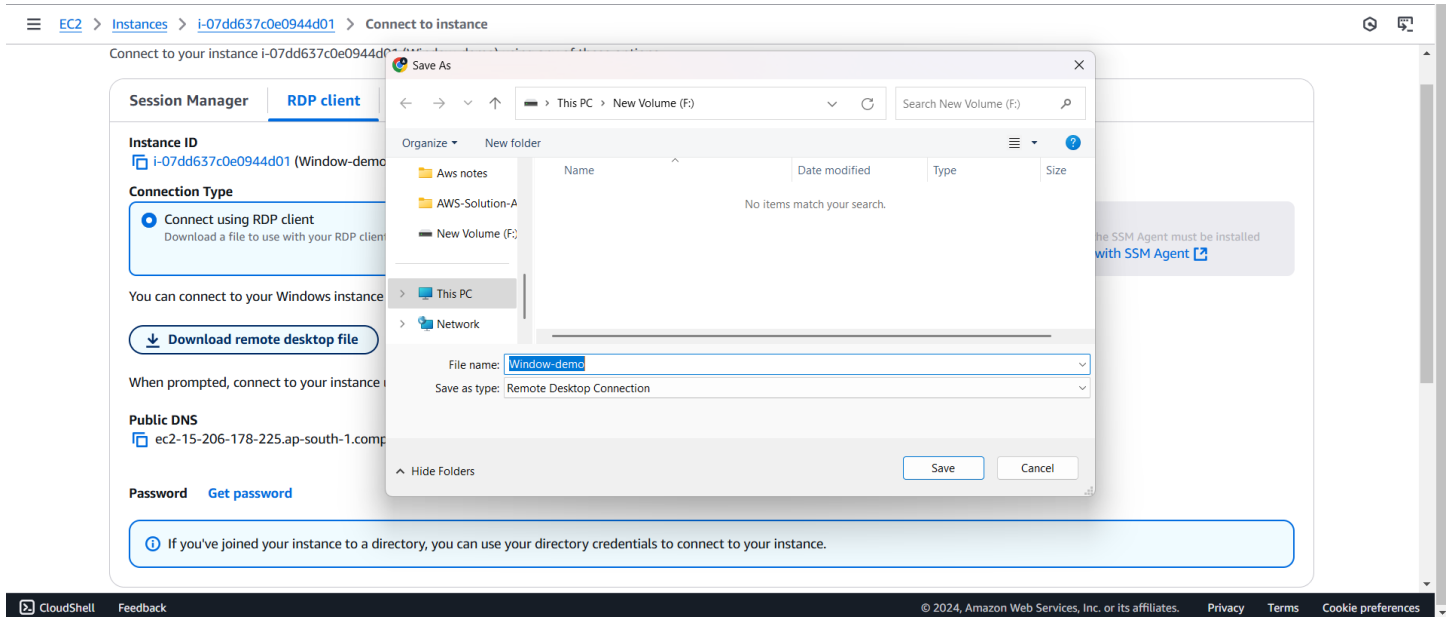
- Connect to your instance without SSH keys, a bastion host, or opening any inbound ports.
- Sessions are secured using an AWS Key Management Service key.
- You can log session commands and details in an Amazon S3 bucket or CloudWatch Logs log group.
- Configure sessions on the Session Manager [Preferences](#) page.

Cancel Connect

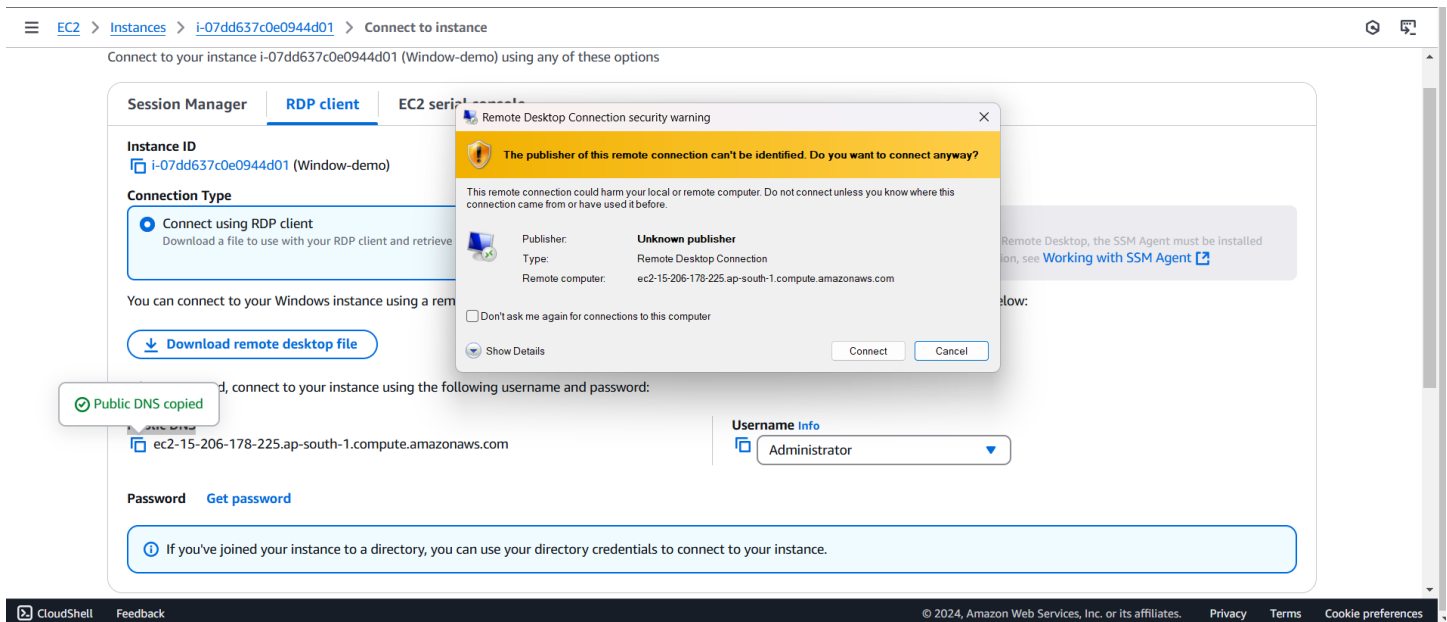
- Click on **RDP client**.
- Connect using RDP client.



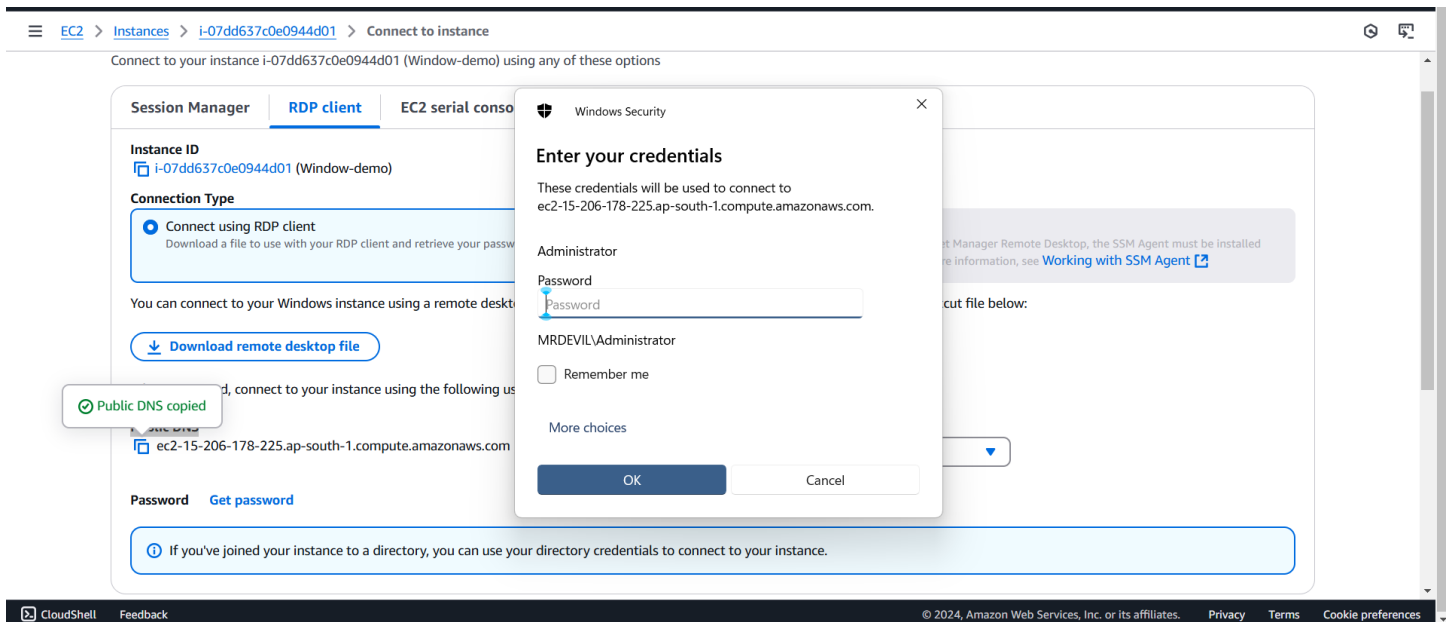
- Download remote desktop file.
- And save it.



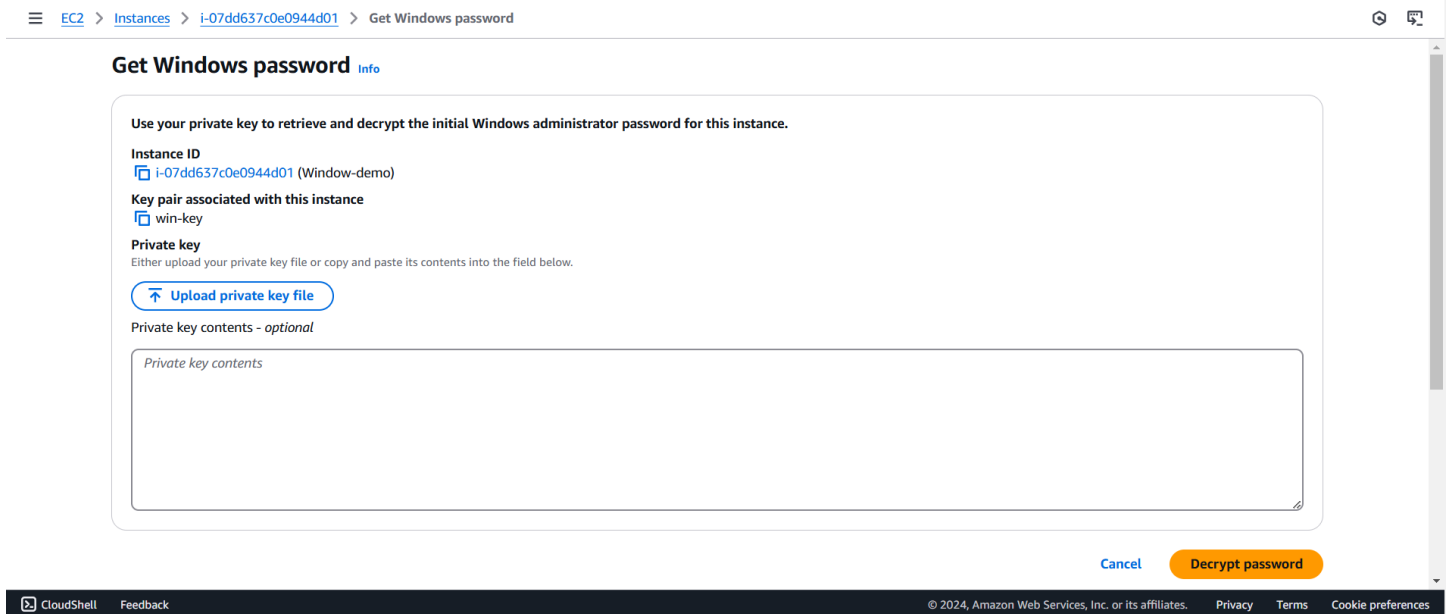
- Open the downloading remote desktop file.
- And connect.



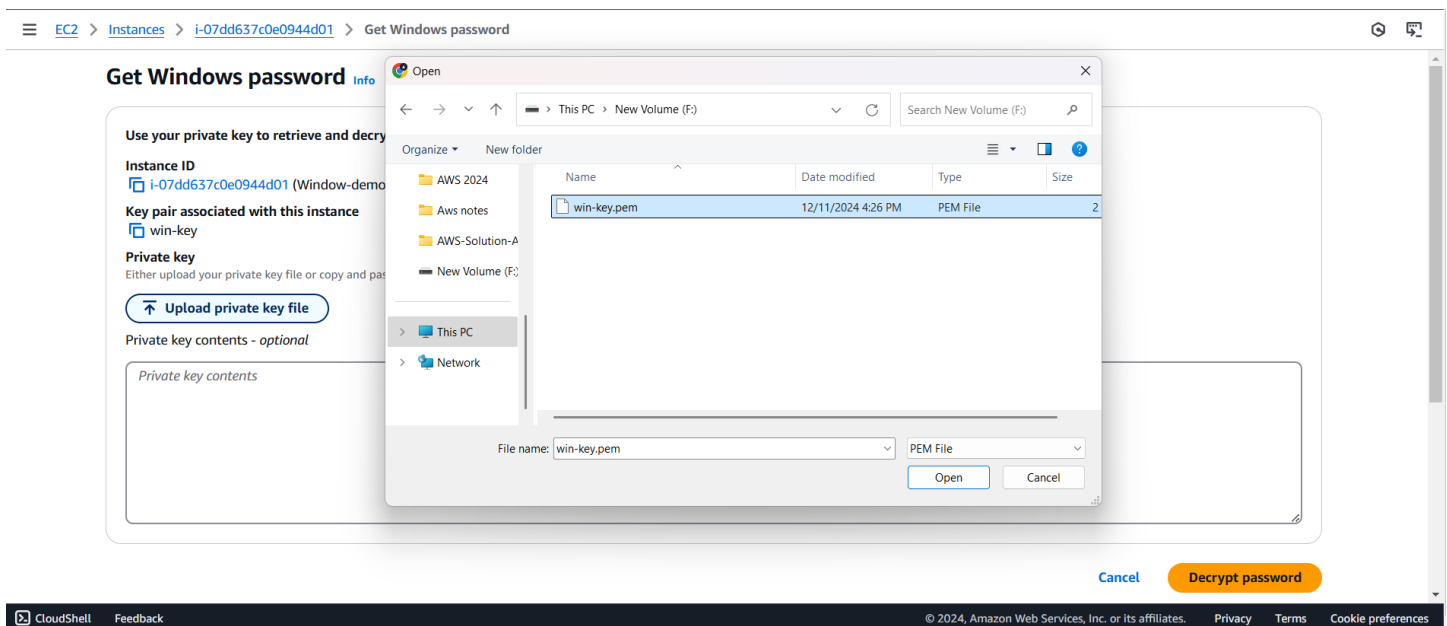
➤ Now you are **entering the credentials**.



- Asked your login password.
- Then click on the **Get password**.
- And click on uploading private key.



- Select your download **.pem file**.
- And open it.



- After then copy your password.
-

EC2 > Instances > i-07dd637c0e0944d01 > Connect to instance

i-07dd637c0e0944d01 (Window-demo)

Connection Type

☒ Connect using RDP client

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

☐ Connect using Fleet Manager

To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see [Working with SSM Agent](#)

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

ec2-15-206-178-225.ap-south-1.compute.amazonaws.com

Username Info

Administrator

Password

Sd&rE!&E!Eozk)QfHn;Kk5)Tr4XbQfL

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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➤ Then paste your copied password connect your RDS.

EC2 > Instances > i-07dd637c0e0944d01 > Connect to instance

i-07dd637c0e0944d01 (Window-demo)

Connection Type

☒ Connect using RDP client

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

☐ Connect using Fleet Manager

To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see [Working with SSM Agent](#)

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

ec2-15-206-178-225.ap-south-1.compute.amazonaws.com

Username Info

Administrator

Password

Sd&rE!&E!Eozk)QfHn;Kk5)Tr4XbQfL

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

Cancel

Windows Security

Enter your credentials

These credentials will be used to connect to ec2-15-206-178-225.ap-south-1.compute.amazonaws.com.

Administrator

Password

MRDEVIL\Administrator

☐ Remember me

More choices

OK Cancel

Password copied

https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Now you are **Successfully** connecting your server.

