

TASK 1: Launching EC2 instance of Windows AMI and connecting through RDP.

STEP 1: Login to the AWS management console

The screenshot shows the AWS Management Console Home page. At the top, there is a navigation bar with the AWS logo, a 'Services' menu, a search bar, and a keyboard shortcut '[Alt+S]'. On the right side of the navigation bar, there are icons for notifications, help, settings, and a dropdown menu for the region 'Stockholm' and the user 'vinayaka H.M.'. Below the navigation bar, the main content area is titled 'Console Home'. On the right side of this area, there are two buttons: 'Reset to default layout' and '+ Add widgets'. The main content area is divided into two columns. The left column is titled 'Welcome to AWS' and contains three links: 'Getting started with AWS', 'Training and certification', and 'What's new with AWS?'. The right column is titled 'AWS Health' and contains three sections: 'Open issues' (0), 'Scheduled changes' (0), and 'Other notifications' (0). Each section has a time range (Past 7 days or Upcoming and past 7 days). At the bottom of the right column, there is a link 'Go to AWS Health'. Below the 'Welcome to AWS' section, there is a section titled 'Cost and usage'. At the bottom of the page, there is a footer with links for 'CloudShell', 'Feedback', and copyright information for Amazon Web Services India Private Limited or its affiliates. There are also links for 'Privacy', 'Terms', and 'Cookie preferences'.

aws Services Search [Alt+S]

Stockholm vinayaka H.M.

Console Home

Reset to default layout + Add widgets

Welcome to AWS

- [Getting started with AWS](#)
Learn the fundamentals and find valuable information to get the most out of AWS.
- [Training and certification](#)
Learn from AWS experts and advance your skills and knowledge.
- [What's new with AWS?](#)
Discover new AWS services, features, and Regions.

AWS Health

Open issues
0 Past 7 days

Scheduled changes
0 Upcoming and past 7 days

Other notifications
0 Past 7 days

[Go to AWS Health](#)

Cost and usage

CloudShell Feedback

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STEP 2: To launch an EC2 instance search the service called EC2 instance in search

The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, a 'Services' button, a search bar with the placeholder text 'Search' and a keyboard shortcut '[Alt+S]', and user information for 'Stockholm' and 'vinayaka H.M'. Below the navigation bar, a 'Recently visited' panel is open, displaying a list of services. The services listed are: Analytics, Application Integration, AWS Cost Management, Blockchain, Business Applications, Compute, Containers, Customer Enablement, Database, Developer Tools, End User Computing, Front-end Web & Mobile, Game Development, and Internet of Things. The 'EC2' service is highlighted with a star icon and a tooltip that reads 'Virtual Servers in the Cloud'. Other services shown in the panel include 'Console Home' (View resource insights, service shortcuts, and feature updates), 'S3' (Scalable Storage in the Cloud), and 'RDS' (Managed Relational Database Service). In the top right corner of the panel, there are buttons for 'Reset to default layout' and '+ Add widgets'. The bottom of the screen shows the URL 'https://eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1' and a footer with copyright information and links for Privacy, Terms, and Cookie preferences.

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Reset to default layout + Add widgets

Recently visited

Console Home
View resource insights, service shortcuts, and feature updates

☆ EC2
Virtual Servers in the Cloud

S3
Scalable Storage in the Cloud

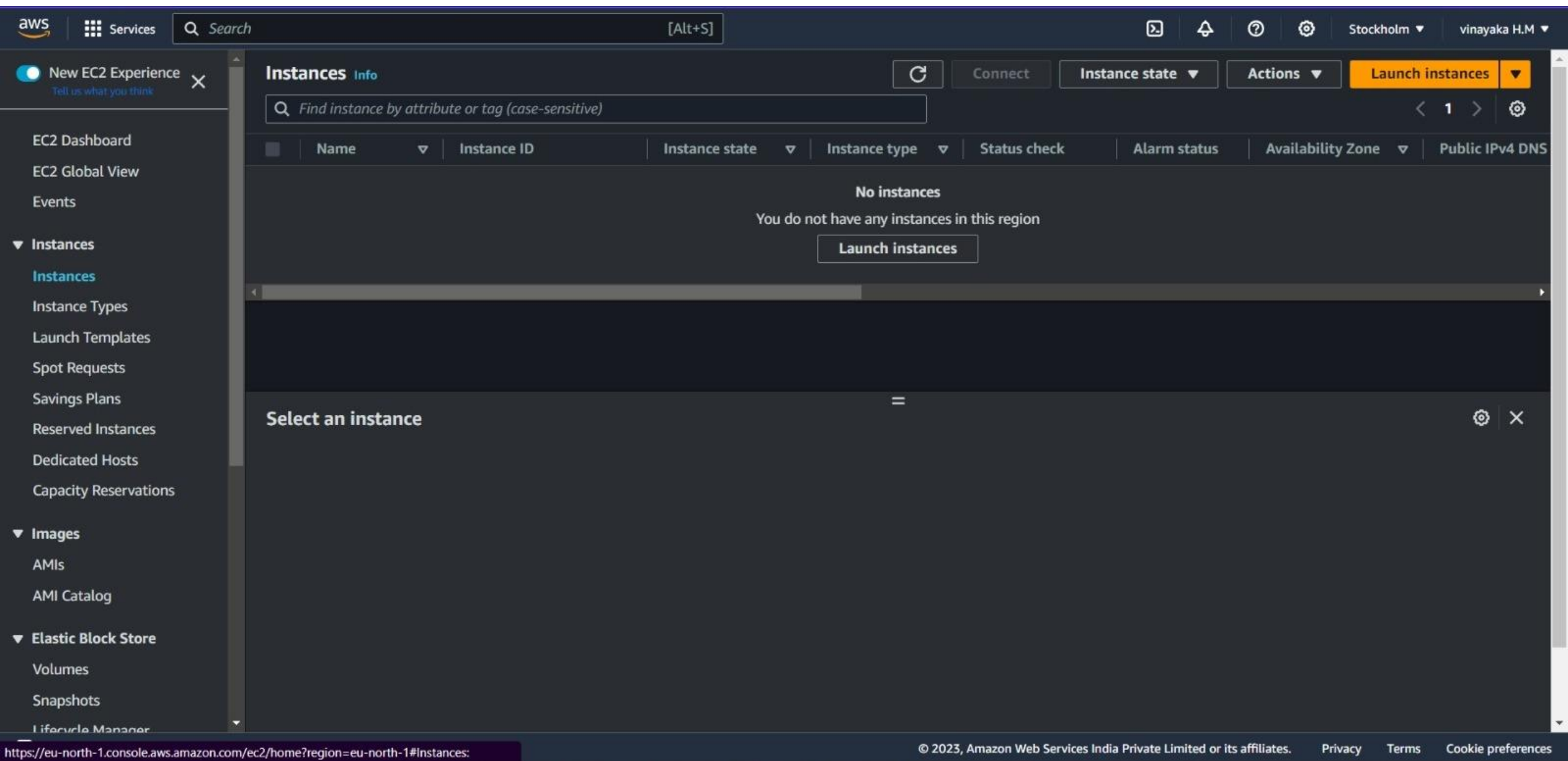
RDS
Managed Relational Database Service

Analytics
Application Integration
AWS Cost Management
Blockchain
Business Applications
Compute
Containers
Customer Enablement
Database
Developer Tools
End User Computing
Front-end Web & Mobile
Game Development
Internet of Things

https://eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1

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STEP 3: Click on EC2 instance after clicking the EC2 instance it will redirect to EC2 dashboard then click on Launch instance.



STEP 4: When you start Launching(Creating) instance give required configuration.

1. Give instance name whatever you want.

aws Services Search [Alt+S]

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

My-Instance [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

Search our full catalog including 1000s of application and OS images

[Quick Start](#)

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Microsoft Windows Server 2022 ...[read more](#)
ami-0c28bd8f1dd39d667

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 30 GiB

[Free tier:](#) In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per

2. Select required AMI.(Here we need Windows AMI).

aws

Services

Search

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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

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Li

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Microsoft Windows Server 2022 Base

ami-0c28bd8f1dd39d667 (64-bit (x86))

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

Free tier eligible

Description

Microsoft Windows Server 2022 Full Locale English AMI provided by Amazon

Architecture

AMI ID

64-bit (x86)

ami-0c28bd8f1dd39d667

Verified provider

Summary

Number of instances Info

1

Software Image (AMI)

Microsoft Windows Server 2022 ...read more

ami-0c28bd8f1dd39d667

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per

Cancel

Launch instance

Review commands

CloudShell

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3. Select instance type.(Select free tier eligible instance type for example t2.micro,

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▼ Instance type Info

Instance type

t3.micro

Family: t3 2 vCPU 1 GiB Memory Current generation: true

On-Demand RHEL base pricing: 0.0708 USD per Hour

On-Demand SUSE base pricing: 0.0108 USD per Hour

On-Demand Linux base pricing: 0.0108 USD per Hour

On-Demand Windows base pricing: 0.02 USD per Hour

Free tier eligible

☐ All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ Summary

Number of instances Info

1

Software Image (AMI)

Microsoft Windows Server 2022 ...read more

ami-0c28bd8f1dd39d667

Virtual server type (instance type)

4. Create key pair or you can select existing keypair if you have(here creating new keypair).Choose RSA type and download .pem file format in your system for further use
5. Create new security group

Key pair (login) Info

You can use a key pair to securely connect to your instance. [E](#) before you launch the instance.

Key pair name - required

Select

For Windows instances, you use a key pair to decrypt the administrator your instance.

Network settings Info

Network Info
vpc-0f24128f6e15e4969

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.

Create security group Select existing

Create key pair

Key pair name
Key pairs allow you to connect to your instance securely.
Enter key pair name
The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

- ☒ RSA
RSA encrypted private and public key pair
- ☐ ED25519
ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format

- ☒ .pem
For use with OpenSSH
- ☐ .ppk
For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Cancel Create key pair

Launch instance

Review commands

CloudShell Feedback

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- 6. Remaining keep all default. And number of instances you can mention how many you want and click on launch instnace.
- 7. Now we have successfully launched instance

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EC2

Instances

Launch an instance

Success

Successfully initiated launch of instance (i-00dd87e544f6f075a)

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

Manage detailed monitoring

Create Load Balancer

Create AWS budget

Manage CloudWatch alarms

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STEP 5: After launching insatnce connect Windows type AMI instance through RDP client. For that go to Ec2 dashboard click on created instance and then click on

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New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Instances (1/1)

Find instance by attribute or tag (case-sensitive)

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS |
|-------------------------------------|-------------|---------------------|----------------|---------------|--------------|--------------|-------------------|-----------------|
| <input checked="" type="checkbox"/> | My-Instance | i-00dd87e544f6f075a | Running | t3.micro | Initializing | No alarms | eu-north-1a | ec2-51-20-133-1 |

Instance: i-00dd87e544f6f075a (My-Instance)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary

Instance ID

i-00dd87e544f6f075a (My-Instance)

Public IPv4 address

51.20.133.197

open address

Private IPv4 addresses

172.31.22.223

IPv6 address

-

Instance state

Running

Public IPv4 DNS

ec2-51-20-133-197.eu-north-1.compute.amazonaws.com

open address

Hostname type

IP name: ip-172-31-22-223.eu-north-1.compute.internal

Private IP DNS name (IPv4 only)

ip-172-31-22-223.eu-north-1.compute.internal

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STEP 6: To connect Instance we need to have username and password of that particular instance, generate the password by uploading used keypair of inst

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EC2 > Instances > i-00dd87e544f6f075a > Get Windows password

Get Windows password

Info

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

Instance ID

i-00dd87e544f6f075a (My-Instance)

Key pair associated with this instance

My-instance

Private key

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

Upload private key file

My-instance (1).pem
1.678KB

Private key contents - optional

-----BEGIN RSA PRIVATE KEY-----
MIIEpQIBAAKCAQEA2IVCvePcTb1bGOM5/YvApGvAnV2KGZrVBygIM16URgMDoiP6
/nmoV+aTdUTA1Nly8iyvj8wfkaTsDVICSreseQBH2eHOahhvQ1V3Hz0num1pEJNZ
kHPiVRuv+R+Hk5gQru6sinErH2Xb5udOdjoHnV3UIMy/IO7YeJ2yHYU09J0PXzLT
PbnQwm0znxRtVxbAeig3JEhAS57SBRsntwVAP3ma/Ze43DDPI+feZOohCfN/D2IG
cPe5VEn8rOeNExCN0M2QJRcjKC3dfIsMBObP+7/pEvonxNcLkK5xPa6DMKhaKe13
kp67Tr39EG8/S6AinjclTd+XAL0rUWUdQkt+bQIDAQABAoIBAQCZyUhznJZGo8QQ
6aylLNUKe2N29LYbhvXaTqq1Xj8ueV0LzjAzltoy4BSpmz4AKfb8ogEFvN+Dl6+

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STEP 7: Decrypt the password,then you will get password to connect instance copy that password

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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, the SSM Agent must be installed on the instance. For more information, see [Connect to an Amazon EC2 instance with SSM Agent](#).

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading the RDP shortcut file below:

Download remote desktop file

When prompted, connect to your instance using the following details:

Public DNS copied

ec2-51-20-133-197.eu-north-1.compute.amazonaws.com

User name

Administrator

Password

v(AClqYbrOI5@SNpt-JiTS*;6tPOjduU

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

Remote Desktop Connection

Remote Desktop Connection

General Display Local Resources Experience Advanced

Logon settings

Enter the name of the remote computer.

Computer: 33-197.eu-north-1.compute.amazonaws.com

User name: Administrator

You will be asked for credentials when you connect.

☐ Allow me to save credentials

Connection settings

Save the current connection settings to an RDP file or open a saved connection.

Save

Save As...

Open...

Hide Options

Connect

Help

Cancel

CloudShell

Feedback

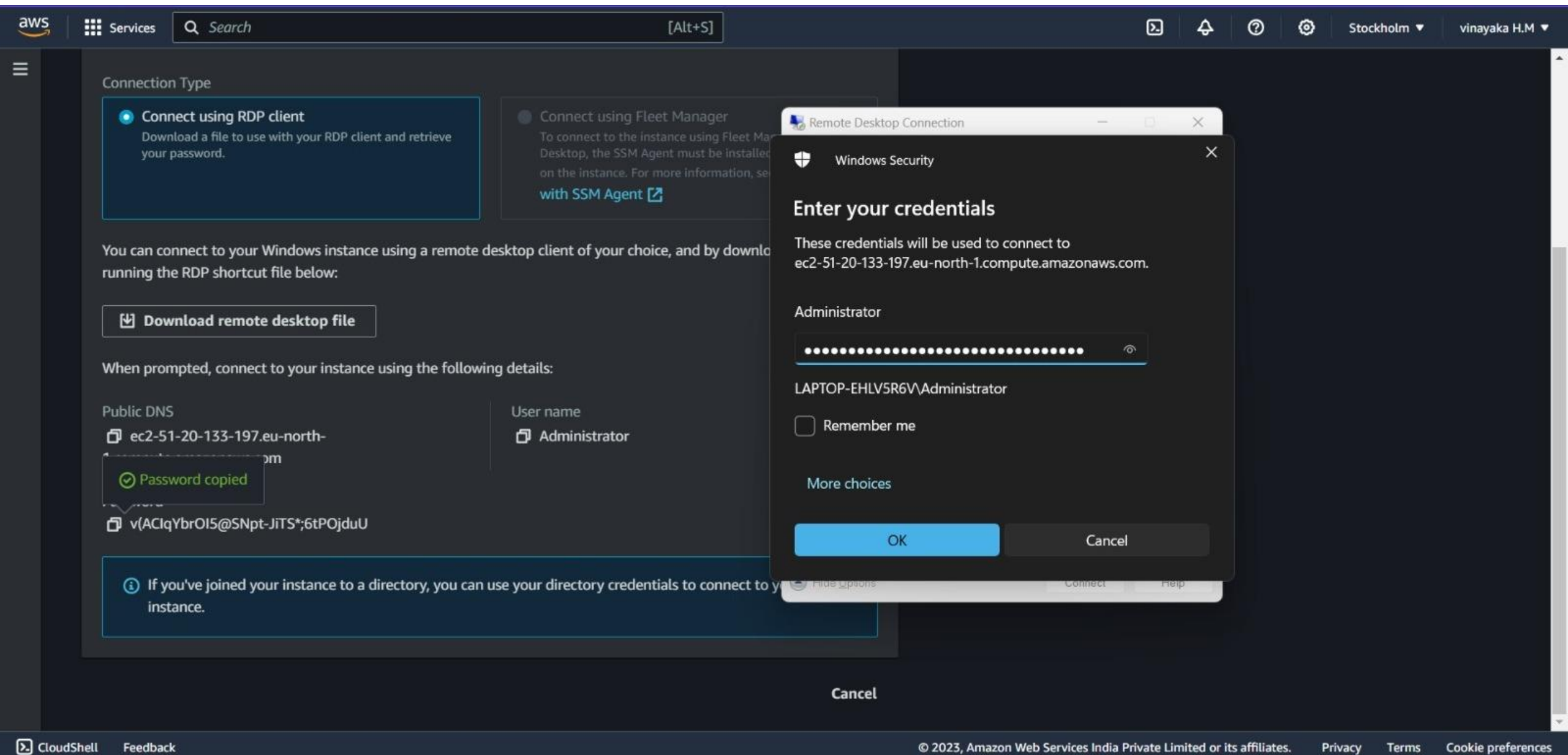
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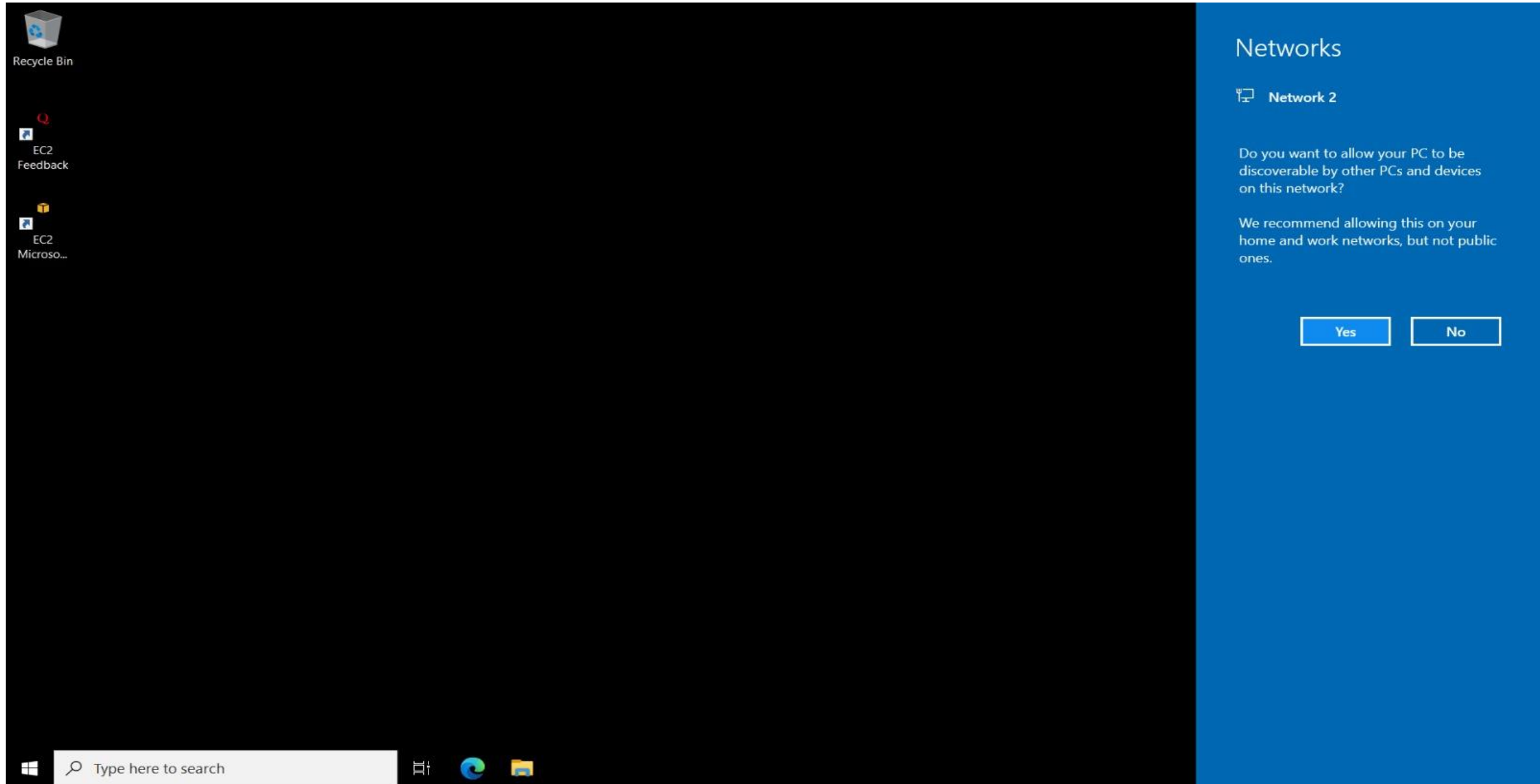
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Cookie preferences

STEP 8: You can now connect to your Windows instance using a remote desktop client of your choice and by downloading and running the RDP file. When you run the downloaded RDP file it will prompt to enter password then click



STEP 9: click the yes button



STEP 10: Now scuuessfully we have connected Windows AMI

