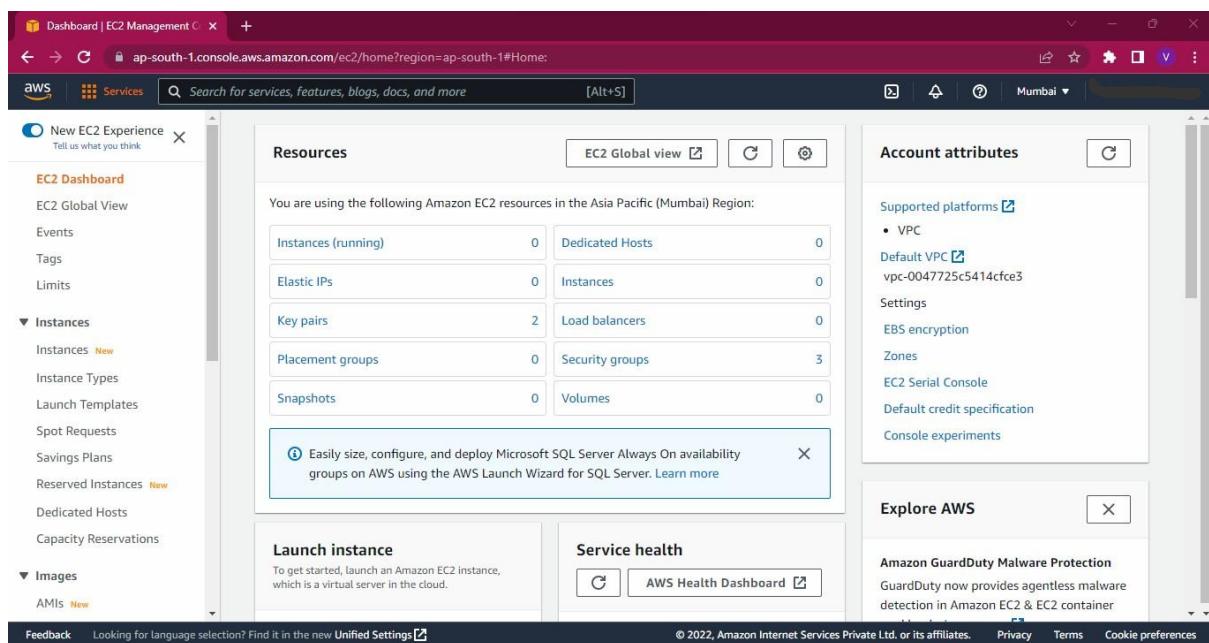


**Aim:** Create Windows EC2 instance and connect to Windows using instance.

### Description:

In this task, a Windows-based virtual machine (EC2 instance) was created and configured on Amazon Web Services (AWS). The process included selecting a Windows Server AMI, choosing an appropriate instance type (such as t2.micro), generating or using an existing key pair for authentication, and setting up a security group to allow RDP access on port 3389. After launching the instance, the public IP and administrator password (retrieved using the key pair) were used to establish a Remote Desktop Connection. This provided access to the cloud-hosted Windows environment directly from a local system. The activity helped in understanding how to deploy, configure, and securely connect to Windows instances in the AWS cloud infrastructure.

**Step 1:** To create instance on EC2 click on EC2 then select instance then click on instances.



**Step 2**= In step 2 click on launch instances .

The screenshot shows the AWS EC2 Management Console. The left sidebar has a tree view with 'Instances New' selected under 'Instances'. The main content area is titled 'Instances Info' and shows a table with the following columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. Below the table, it says 'No instances' and 'You do not have any instances in this region'. At the bottom of the table area is a large orange button labeled 'Launch instances'.

**Step 3** = Type Name of instance

The screenshot shows the 'Launch an instance' wizard. Step 1: Set instance details. It shows 'Name' set to 'Windows-Server'. Step 2: Application and OS Images (Amazon Machine Image). It shows 'Software Image (AMI)' set to 'Amazon Linux 2 Kernel 5.10 AMI'. Step 3: Summary. It shows 'Number of instances' as 1, 'Virtual server type (instance type)' as 't2.micro', and 'Storage (volumes)' as '1 volume(s) - 8 GB'. A note indicates a free tier of 750 hours for t2.micro or t3.micro instances. At the bottom are 'Cancel' and 'Launch Instance' buttons.

**Step 4** = Choose the OS as Windows and select AMI as Microsoft Windows Server 2022 Base, free tier eligible.

The screenshot shows the AWS Quick Start interface. At the top, there are tabs for 'Recents' and 'Quick Start', with 'Quick Start' being the active tab. Below the tabs, there are several categories: 'Amazon Linux' (with an AWS logo and Mac icon), 'macOS' (with a Mac icon), 'Ubuntu' (with an Ubuntu logo), 'Windows' (with a Microsoft logo, highlighted in light blue), and 'Red Hat' (with a Red Hat logo). To the right of these categories is a search bar with a magnifying glass icon and the text 'Browse more AMIs' followed by a link 'Including AMIs from AWS, Marketplace and the Community'. Below the categories, there is a section titled 'Amazon Machine Image (AMI)' which displays the selected AMI: 'Microsoft Windows Server 2022 Base' (ami-0fb5befc1450ca205 (64-bit (x86))) with 'Virtualization: hvm', 'ENI enabled: true', and 'Root device type: ebs'. To the right of this section is a dropdown menu labeled 'Free tier eligible'. Further down, there are sections for 'Description' (Microsoft Windows Server 2022 Full Locale English AMI provided by Amazon) and 'Architecture' (64-bit (x86), AMI ID: ami-0fb5befc1450ca205, Verified provider: Amazon Web Services).

**Step 5**= Choose an Instance Type . Choose t2 micro free tier eligible then click on configure instance details.

The screenshot shows the AWS Instances page. At the top, there is a navigation bar with the AWS logo, 'Services' (selected), a search bar containing 'Search for services, features, blogs, docs, and more', and a keyboard shortcut '[Alt+S]'. Below the navigation bar, there is a section titled 'Instance type' with a dropdown arrow icon and a 'Info' link. Underneath this, there is a table for the 't2.micro' instance type. The table includes columns for 'Instance type' (t2.micro), 'Family: t2', '1 vCPU', '1 GiB Memory', 'Free tier eligible' (with a dropdown arrow), 'On-Demand Linux pricing: 0.0116 USD per Hour', and 'On-Demand Windows pricing: 0.0162 USD per Hour'. To the right of the table, there is a 'Compare instance types' link.

**Step 6** = Select default Network settings. In Firewall, select Create security group choose Allow RDP traffic.

**Step 7**= Now click **Launch Instance** and instance is created as shown below.

**Step 8=** Now to connect to Windows using EC2 instance, select instance and click **Connect**.

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with links like 'New EC2 Experience', 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', 'Instances', 'Images', and 'AMIs'. The main area shows a table with one row for an instance named 'Windows-Server'. The instance has an ID of 'i-0bbd870489f16716d', is in a 'Running' state, and is a 't2.micro' type. It has 2/2 checks passed and no alarms. The 'Security' tab is selected in the details panel.

**Step 9=** Select RDP client, download remote desktop file.

The screenshot shows the 'Connect to instance' page for the instance 'i-0bbd870489f16716d'. It features tabs for 'Session Manager', 'RDP client' (which is selected), and 'EC2 serial console'. Under 'Connection Type', there are two options: 'Connect using RDP client' (selected) and 'Connect using Fleet Manager'. Below these, a note says you can connect using a remote desktop client or download an RDP shortcut file. It also lists Public DNS ('ec2-44-203-73-91.compute-1.amazonaws.com') and User name ('Administrator').

**Step 10=** Click on Get Password

The screenshot shows the 'Get password' page for the same instance. It has a 'Connection Type' section with the 'Connect using RDP client' option selected. A note below says you can connect using a remote desktop client or download an RDP shortcut file. It lists Public DNS ('ec2-44-203-73-91.compute-1.amazonaws.com') and User name ('Administrator'). At the bottom, there's a 'Password' field with 'Get password' selected, and a note about using directory credentials if joined to a domain.

**Step 11=** Click on Browse and select windows key . pem file and click **Decrypt password**.

The screenshot shows the AWS Management Console interface for retrieving a Windows password. At the top, there's a navigation bar with the AWS logo, 'Services' dropdown, a search bar, and a keyboard shortcut '(Alt+S)'. Below the navigation, the path is shown as EC2 > Instances > i-0bbd870489f16716d > Get Windows password. The main content area is titled 'Get Windows password' with an 'Info' link. It contains instructions: 'Retrieve and decrypt the initial Windows administrator password for this instance.' and 'To decrypt the password, you will need your key pair for this instance.' A box highlights the 'Key pair associated with this instance' section, which lists 'WindowsXP'. Below this, there's a note 'Browse to your key pair:' followed by a 'Browse' button. Another note says 'Or copy and paste the contents of the key pair below:' followed by a text input field. At the bottom right, there are 'Cancel' and 'Decrypt password' buttons.

**Step 13=** Connected to virtual windows.



**Conclusion:** We have created windows EC2 instance and also connected to windows.