

Aim: Create Amazon machine instance on EC2 using Amazon Linux image.

Step 1: To create instance on EC2, click on **EC2** then **Launch Instance**.

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes tabs for 'Dashboard' and 'EC2 Management'. The search bar contains the URL 'ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Home'. On the left, a sidebar menu lists 'EC2 Dashboard' (with 'EC2 Global View' selected), 'Instances' (with 'Instances New' selected), and 'Images'. The main content area displays 'Resources' and 'Account attributes' sections. A central callout box provides instructions for launching Microsoft SQL Server Always On availability groups. Below these are 'Launch instance' and 'Service health' sections.

Step 2= In step 2 click on launch instances .

The screenshot shows the AWS EC2 Management Console on the 'Instances' page. The top navigation bar and search bar are identical to the previous screenshot. The sidebar menu is also similar. The main content area shows a table with columns for 'Name', 'Instance ID', 'Instance state', 'Instance type', 'Status check', 'Alarm status', and 'Availability Z'. A message states 'No instances' and 'You do not have any instances in this region'. A prominent orange button labeled 'Launch instances' is visible. A modal window titled 'Select an instance' is open in the foreground, indicating the next step in the process.

Step 3 = We have to opt in to the new experience and also choose an Amazon Machine Image (AMI). Choose free tier eligible Amazon Linux. Then click on select.

This launch experience will soon be reaching end of life
We've introduced a new launch experience with new and updated features. You can opt in now by choosing Opt in to the new experience. Currently, you can opt out to the old experience at any time. Please send us your feedback about the new experience so that we can continue to improve it.

Step 1: Choose an Amazon Machine Image (AMI)

Quick Start

| My AMIs | Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-06489866022e12a14 (64-bit x86) / ami-0e1801d379af4e263 (64-bit Arm) | Select |
|---|---|---|
| AWS Marketplace | Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard. | <input checked="" type="radio"/> 64-bit (x86) <input type="radio"/> 64-bit (Arm) |
| Community AMIs | Root device type: ebs Virtualization type: hvm ENA Enabled: Yes | |
| <input type="checkbox"/> Free tier only ⓘ | Amazon Linux 2 AMI (HVM) - Kernel 4.14, SSD Volume Type - ami-068cda7597e78094b (64-bit x86) / ami-0fc81ccb6d411c58b (64-bit Arm) | Select |
| | Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI | <input checked="" type="radio"/> 64-bit (x86) <input type="radio"/> 64-bit (Arm) |

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences

Step 4 = In step 4 Choose an Instance Type . Choose t2 micro free tier eligible then click on configure instance details.

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 families | Current generation | Show/Hide Columns | | | | | |
|---|-----------------------|--------------------------------|-------------------|--------------|-------------------------|---------------------------|-----------------------|----------------|
| Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, ~ 1 GiB memory, EBS only) | | | | | | | | |
| | Family | Type | vCPUs ⓘ | Memory (GiB) | Instance Storage (GB) ⓘ | EBS-Optimized Available ⓘ | Network Performance ⓘ | IPv6 Support ⓘ |
| <input type="checkbox"/> | t2 | t2.nano | 1 | 0.5 | EBS only | - | Low to Moderate | Yes |
| <input checked="" type="checkbox"/> | t2 | t2.micro Free tier eligible | 1 | 1 | EBS only | - | Low to Moderate | Yes |
| <input type="checkbox"/> | t2 | t2.small | 1 | 2 | EBS only | - | Low to Moderate | Yes |
| <input type="checkbox"/> | t2 | t2.medium | 2 | 4 | EBS only | - | Low to Moderate | Yes |
| <input type="checkbox"/> | t2 | t2.large | 2 | 8 | EBS only | - | Low to Moderate | Yes |

Cancel Previous Review and Launch Next: Configure Instance Details

Step 5= In step 5 we have to configure instance details. We have to select no of instances 2 then network ,subset ,hostname type, DNS hostname keep as it is there will be no any changes .Then click on Add Storage.

Number of instances: 2

Purchasing option: Request Spot instances

Network: vpc-0047725c5414cfce3 (default)

Subnet: No preference (default subnet in any Availability Zone)

Auto-assign Public IP: Use subnet setting (Enable)

Hostname type: Use subnet setting (IP name)

DNS Hostname: Enable IP name IPv4 (A record) DNS requests

Buttons: Cancel, Previous, Review and Launch, Next: Add Storage

Step 6= In step 6 our 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. There will be no any changes in this tab. Click on Add tags.

| Volume Type | Device | Snapshot | Size (GiB) | Volume Type | IOPS | Throughput (MB/s) | Delete on Termination | Encryption |
|-------------|-----------|------------------------|------------|---------------------------|------------|-------------------|-------------------------------------|--------------------------------------|
| Root | /dev/xvda | snap-0d45135e7634ebd6e | 8 | General Purpose SSD (gp2) | 100 / 3000 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> Not Encrypt |

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.

Buttons: Cancel, Previous, Review and Launch, Next: Add Tags

Step 7= Click On Name of tag. Which are in middle. Then below window will open. A tag consist of a case sensitive key value pair.

The screenshot shows the AWS Launch Instance Wizard at Step 5: Add Tags. The URL is ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstanceWizard. The page title is "Launch instance wizard | EC2 Manager". The navigation bar includes "Services" and a search bar. The main content area shows a table for adding tags:

| Key | (128 characters maximum) | Value | (256 characters maximum) | Instances | Volumes | Network Interfaces |
|------|--------------------------|----------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Name | | linuxvaish2022 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Below the table is a button "Add another tag" and a note "(Up to 50 tags maximum)". At the bottom are buttons for "Cancel", "Previous", "Review and Launch" (highlighted in blue), and "Next: Configure Security Group".

Step 8= In this step Add value e.g. linuxvaish2022. Then click on configure security group.

The screenshot shows the AWS Launch Instance Wizard at Step 5: Add Tags. The URL is ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstanceWizard. The page title is "Launch instance wizard | EC2 Manager". The navigation bar includes "Services" and a search bar. The main content area shows a table for adding tags:

| Key | (128 characters maximum) | Value | (256 characters maximum) | Instances | Volumes | Network Interfaces |
|------|--------------------------|----------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Name | | linuxvaish2022 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Below the table is a button "Add another tag" and a note "(Up to 50 tags maximum)". At the bottom are buttons for "Cancel", "Previous", "Review and Launch" (highlighted in blue), and "Next: Configure Security Group".

Step 9 = A security group is a 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 Linux you have select type SSH and for windows we have select type RDP. Keep protocol , port range , source as it is click on review and launch.

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:
Description:

| Type | Protocol | Port Range | Source | Description |
|------|----------|------------|------------------|----------------------------|
| SSH | TCP | 22 | Custom 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

Step 10= In this step just click on launch to launch the instance.

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details

Free tier eligible Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-06489866022e12a14
Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is no longer supported.

Instance Type

| Instance Type | ECUs | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance |
|---------------|------|-------|--------------|-----------------------|-------------------------|---------------------|
| t2.micro | - | 1 | 1 | EBS only | - | Low to Moderate |

Cancel Previous Launch

Step 11= In this step select an existing key pair or create a new key pair. Then type key pair name. Download key pair for e.g. linuxvaish2022.pem file we can download here. Then click on launch.

Step 12= In this step your instances are now launching then go to the view instances. Then we are came to the home page were our instances are created.

Step 13= Select instances on clicking checkbox. Then click on connect .

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with 'Instances' selected. The main area displays a table of instances. One instance, 'linuxvaish2022' (i-08db88c12ec204c1b), has its checkbox checked in the 'Actions' column. A 'Connect' button is located above the table. The instance details show it's running and assigned a public IP of 13.233.149.0.

Step 14= We have to choose EC2 instance connect then connect. When we select SSH client then download Putty exe. Or Puttygen.exe then click on Putty exe. Then copy path and select type SSH inside it click Auth then browse and select save private key path and then open. Then open Puttygen exe file and load pem file here and save private save which will help in puttyexe file.

The screenshot shows the 'Connect to instance' dialog. The 'EC2 Instance Connect' tab is active. It displays the instance ID (i-08db88c12ec204c1b), public IP (13.233.149.0), and user name (ec2-user). A note at the bottom states: 'Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.'

Amazon Linux 2 AMI

```
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 11 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-40-171 ~]$
```

i-08db88c12ec204c1b (linuxvaish2022)
PublicIPs: 13.233.149.0 PrivateIPs: 172.31.40.171

Feedback Looking for language selection? Find it in the new Unified Settings [?](#)

© 2022, Amazon Internet Services Private Ltd. or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)

Show all [X](#)