

1. Logged into AWS Console and Navigated to EC2 Dashboard
2. Given a name to ec2 server chosen an Linux AMI

The screenshot displays the AWS Management Console interface for launching a new EC2 instance. The browser tabs at the top include 'Launch an instance', 'Course Modules: AWS', 'Vocareum Labs', 'Install EC2 Instance', '(2) Notifications', and 'Assignment 02: Deplo'. The address bar shows the URL: `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:`.

The console header shows the AWS logo, 'Services' menu, a search bar, and the user's location 'Mumbai' and name 'Prakash'.

The main content area is titled 'Name and tags' and includes a text input field for the instance name, which contains 'ec2WebServer1'. Below this is the 'Application and OS Images (Amazon Machine Image)' section, which provides information about AMIs and a search bar. The 'Quick Start' section displays a grid of operating system options: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE Linux. The 'Amazon Linux' option is selected.

The 'Summary' panel on the right provides a overview of the configuration: 'Number of instances' is set to 1, 'Software Image (AMI)' is 'Amazon Linux 2023 AMI 2023.1.2...', 'Virtual server type (instance type)' is 't2.micro', 'Firewall (security group)' is 'New security group', and 'Storage (volumes)' is '1 volume(s) - 8 GiB'. A 'Free tier: In your first year' banner is visible. At the bottom of the summary panel, there are 'Cancel' and 'Launch instance' buttons. A 'Review commands' link is also present.

The footer of the console shows 'CloudShell', 'Feedback', 'Language', and copyright information for Amazon Web Services India Private Limited. The system taskbar at the very bottom shows the date and time as '4:58 PM 9/8/2023' and the weather as '32°C Partly sunny'.

# 3. Given Instance type and a key pair

Launch an instance | E x Course Modules: AWS x Vocareum Labs x Install EC2 Instance C x (2) Notifications | Link x Assignment 02: Deplo x + -

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

aws Services Search [Alt+S]

Mumbai Prakash

▼ Instance type Info

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0124 USD per Hour

On-Demand Windows base pricing: 0.017 USD per Hour

On-Demand RHEL base pricing: 0.0724 USD per Hour

On-Demand SUSE base pricing: 0.0124 USD per Hour

All generations

Compare instance types

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

Kp1

Create new key pair

▼ Network settings Info

Edit

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.1.2...read more

ami-02bb7d8191b50f4bb

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year

Cancel Launch instance

Go to Settings to activate Windows Review commands

CloudShell Feedback Language

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Type here to search

32°C Partly sunny 5:06 PM 9/8/2023

# 4. Given default VPC and allowed SSH and HTTP traffic

Launch an instance | E x Course Modules: AWS x Vocareum Labs x Install EC2 Instance C x (2) Notifications | Link x Assignment 02: Deplo x +

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

aws Services Search [Alt+S]

Mumbai Prakash

### Network settings Info Edit

Network Info  
vpc-0f6276ccf3ec77bb5

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-1' with the following rules:

- ☒ Allow SSH traffic from  
Helps you connect to your instance  
Anywhere  
0.0.0.0/0
- ☐ 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

### Summary

Number of instances Info  
1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.1.2...read more  
ami-02bb7d8191b50f4bb

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

**Free tier:** In your first year

Cancel Launch instance

Go to Settings to activate Windows. Review commands

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Type here to search

USD/INR -0.20%

5:10 PM 9/8/2023

# 5. Given Configure Storage

Launch an instance | E x Course Modules: AWS x Vocareum Labs x Install EC2 Instance C x (2) Notifications | Link x Assignment 02: Deplo x + -

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

aws Services Search [Alt+S]

Allow all IP 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.

▼ Configure storage Info Advanced

1x 8 GiB gp2 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

0 x File systems Edit

► Advanced details Info

Summary

Number of instances Info  
1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.1.2...read more  
ami-02bb7d8191b50f4bb

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

Free tier: In your first year

Cancel Launch instance

Review commands  
Activate Windows  
Go to Settings to activate Windows.

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Type here to search 5:12 PM 9/8/2023

6. Clicking on Additional details tab, by scrolling down, we will have user data tab. In the user data tab, to install apache server, to start the Apache service and enable it to start on boot, write the following :

```
#!/bin/bash
yum -y install httpd
systemctl enable httpd
systemctl start httpd
echo '<html><h1>Hello From Your Web Server!</h1></html>'
> /var/www/html/index.html
```



# 7. Launch an Instance

Launch an instance | E x Course Modules: AWS x Vocareum Labs x Install EC2 Instance C x (2) Notifications | Link x Assignment 02: Deplo x + -

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

aws Services Search [Alt+S]

Select

User data - optional [Info](#)  
Upload a file with your user data or enter it in the field.

[Choose file](#)

```
#!/bin/bash
yum -y install httpd
systemctl enable httpd
systemctl start httpd
echo '<html><h1>Hello From Your Web Server!</h1></html>' >
/var/www/html/index.html
```

☐ User data has already been base64 encoded

Summary

Number of instances [Info](#)  
1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.1.2...[read more](#)  
ami-02bb7d8191b50f4bb

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

[Free tier](#): In your first year

Cancel [Launch instance](#)

[Review commands](#)  
Activate Windows  
Go to Settings to activate Windows.

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Type here to search

Sunset coming 5:15 PM 9/8/2023

# 8. Launched an Instance and at the bottom right, click view all instances

The screenshot displays the AWS Management Console interface. At the top, the navigation bar includes the AWS logo, a 'Services' menu, a search bar, and the user's name 'Prakash' with a dropdown arrow. The breadcrumb trail indicates the path: [EC2](#) > [Instances](#) > Launch an instance. A prominent green success banner at the top of the main content area reads: 'Success Successfully initiated launch of instance (i-00766ebd140f83db5)'. Below this, there is a 'Launch log' link. The 'Next Steps' section features a search bar with the placeholder text 'What would you like to do next with this instance, for example "create alarm" or "create backup"'. Below the search bar, four recommended actions are presented in cards: 'Create billing and free tier usage alerts', 'Connect to your instance', 'Connect an RDS database', and 'Create EBS snapshot policy'. Each card contains a brief description and a button to proceed. At the bottom of the console, there is a footer with 'CloudShell', 'Feedback', 'Language', and copyright information. The Windows taskbar is visible at the very bottom, showing the search bar, task view button, and several open applications including File Explorer, Chrome, VS Code, and PowerPoint. The system tray on the right shows the date and time as 5:29 PM on 9/8/2023.

Launch an instance | E x Course Modules: AWS x Vocareum Labs x Install EC2 Instance C x (3) Notifications | Link x Assignment 02: Deplo x + -

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

aws Services Search [Alt+S] Mumbai Prakash

EC2 > Instances > Launch an instance

Success  
Successfully initiated launch of instance (i-00766ebd140f83db5)

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

Create EBS snapshot policy  
Create a policy that automates the creation, retention, and deletion of EBS snapshots  
Create EBS snapshot policy

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Type here to search 31°C Partly sunny 5:29 PM 9/8/2023

9. Navigate to EC2 Dashboard and click on instances(running) tab, it will show instances which are running.

The screenshot displays the AWS Management Console's EC2 Instances page. The browser's address bar shows the URL: `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:instanceState=running`. The console's top navigation bar includes the AWS logo, a search bar, and the user's name 'Prakash'. The left-hand navigation pane lists various services, with 'Instances' selected. The main content area is titled 'Instances (1/1) Info' and features a search bar and a filter dropdown set to 'Instance state = running'. Below this, a table lists the instances:

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	ec2WebServer1	i-00766ebd140f83db5	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a

Below the table, the details for the selected instance 'i-00766ebd140f83db5 (ec2WebServer1)' are shown. The 'Details' tab is active, displaying the following information:

- Instance summary**
  - Instance ID: i-00766ebd140f83db5 (ec2WebServer1)
  - IPv6 address: -
  - Hostname type: -
- Public IPv4 address**: 13.232.145.201 | [open address](#)
- Instance state**: Running
- Private IP DNS name (IPv4 only)**: -
- Private IPv4 addresses**: 172.31.38.201
- Public IPv4 DNS**: ec2-13-232-145-201.ap-south-1.compute.amazonaws.com | [open address](#)

The bottom of the screen shows the Windows taskbar with the search bar, task icons, and system tray information including the date and time (5:36 PM, 9/8/2023).



10. Select the instance, we will get details of the instance down, copy the Public IPV4 or click on open address in Public IPV4 address.

The screenshot displays the AWS Management Console interface. At the top, the browser address bar shows the URL: `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:instanceState=running`. The console header includes the AWS logo, a search bar, and navigation links for Services, Mumbai, and Prakash. The left sidebar contains navigation options: 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, and Elastic Block Store.

The main content area is titled "Instances (1/1) Info". It features a search bar with the placeholder text "Find instance by attribute or tag (case-sensitive)". Below the search bar, there is a filter bar showing "Instance state = running" and a "Clear filters" button. A table lists the instances, with the following data:

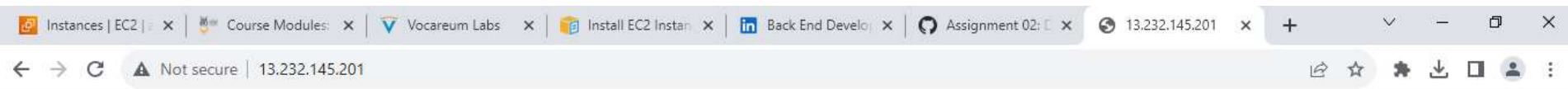
<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	ec2WebServer1	i-00766ebd140f83db5	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a

Below the table, the details for the selected instance "Instance: i-00766ebd140f83db5 (ec2WebServer1)" are shown. The "Details" tab is active, displaying the following information:

- Instance summary Info**
- Instance ID:** i-00766ebd140f83db5 (ec2WebServer1)
- IPv6 address:** -
- Hostname type:** -
- Public IPv4 address:** 13.232.145.201 | [open address](#)
- Instance state:** Running
- Private IP DNS name (IPv4 only):** -
- Private IPv4 addresses:** 172.31.38.201
- Public IPv4 DNS:** ec2-13-232-145-201.ap-south-1.compute.amazonaws.com | [open address](#)

At the bottom of the console, there is a footer with copyright information: "© 2023, Amazon Web Services India Private Limited or its affiliates." and links for Privacy, Terms, and Cookie preferences. The Windows taskbar at the very bottom shows the time as 5:36 PM on 9/8/2023, along with system icons for temperature (31°C), network, and volume.

By clicking on the address, it will navigate to other page, we will get what we have written in index.html



**Hello From Your Web Server!**

Activate Windows  
Go to Settings to activate Windows.

