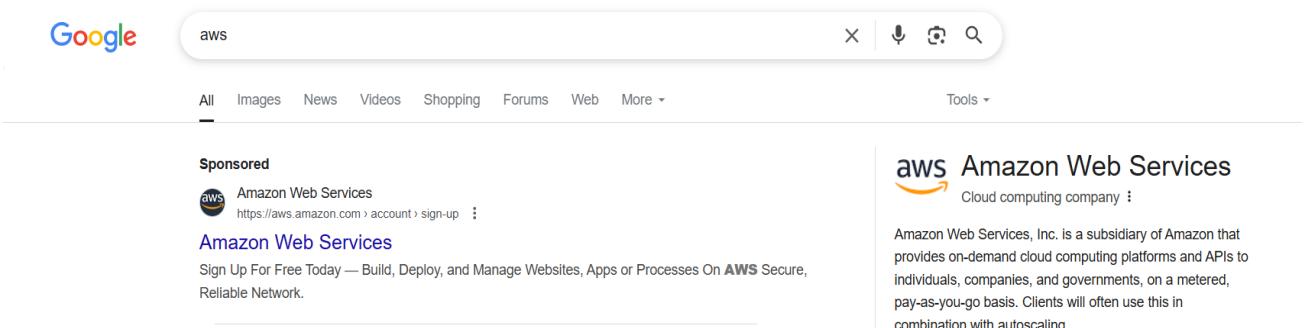


Amazon Web Services (AWS) Account Creation

1. Open Google Chrome (or any browser).

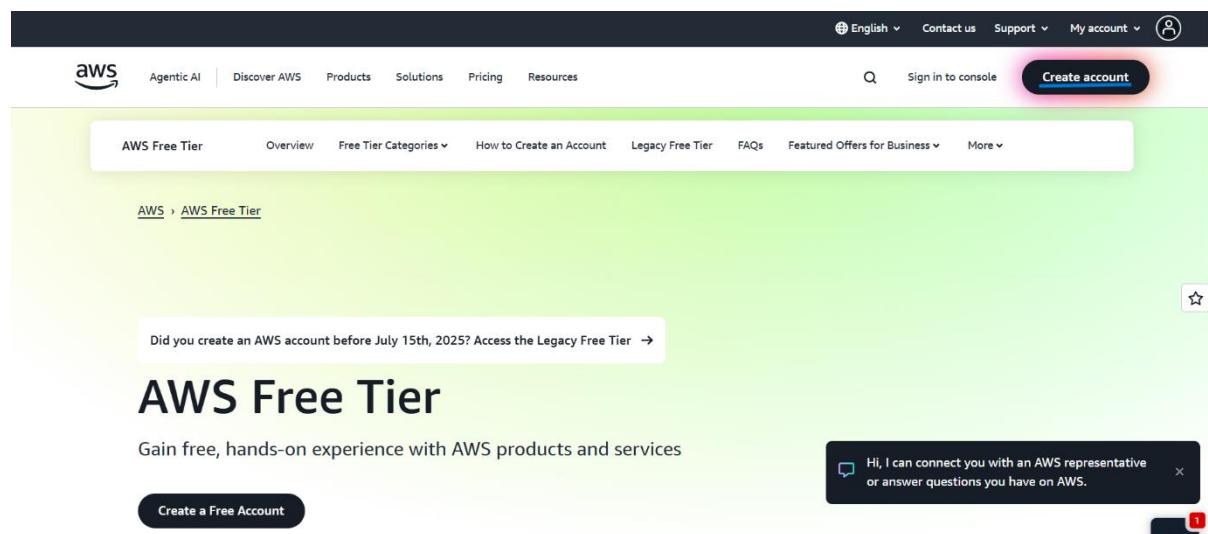


The screenshot shows a Google search results page for the query "aws". The top result is a sponsored link for "Amazon Web Services" with the URL <https://aws.amazon.com/account/sign-up>. To the right of the search results, there is a snippet of the AWS homepage content, which includes the AWS logo, the text "Amazon Web Services", and a brief description of what AWS is.

- Visit the AWS official website: <https://aws.amazon.com/> or search for AWS.
- You will reach the **AWS homepage**.

2. Click Create Account

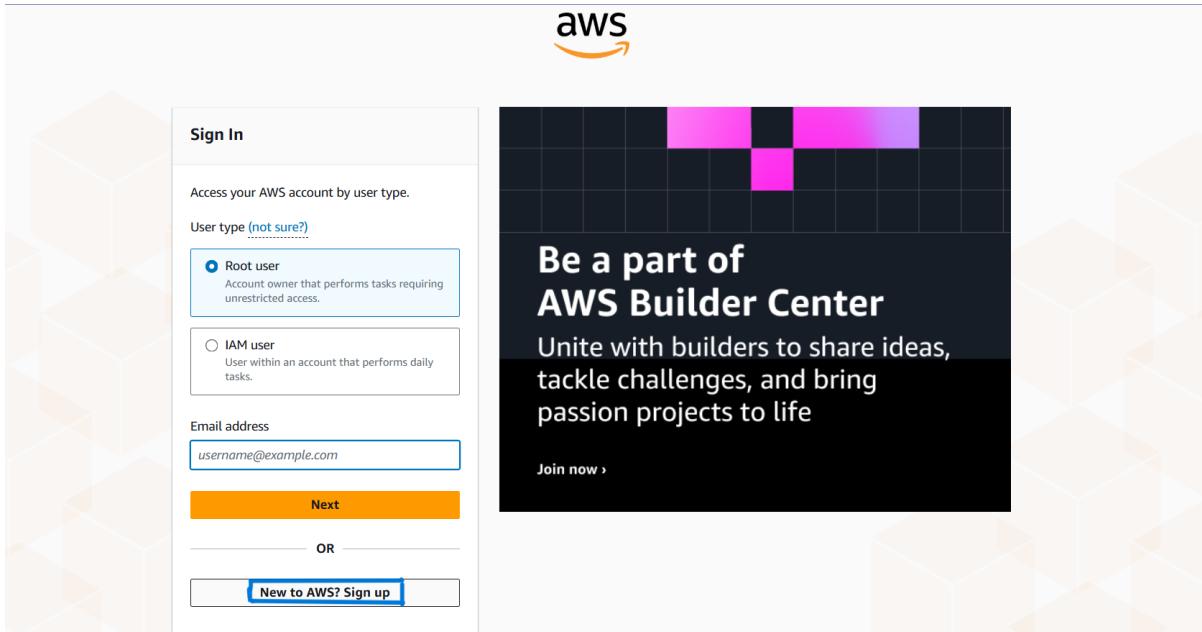
- On the AWS home page, click **Create an AWS Account**.



The screenshot shows the AWS Free Tier landing page. At the top, there is a navigation bar with links for "Discover AWS", "Products", "Solutions", "Pricing", and "Resources". On the right side of the header, there are links for "English", "Contact us", "Support", "My account", and a "Create account" button. Below the header, there is a breadcrumb trail "AWS > AWS Free Tier" and a message about legacy accounts. The main title is "AWS Free Tier" with a subtitle "Gain free, hands-on experience with AWS products and services". At the bottom left, there is a "Create a Free Account" button, and at the bottom right, there is a chatbot message bubble.

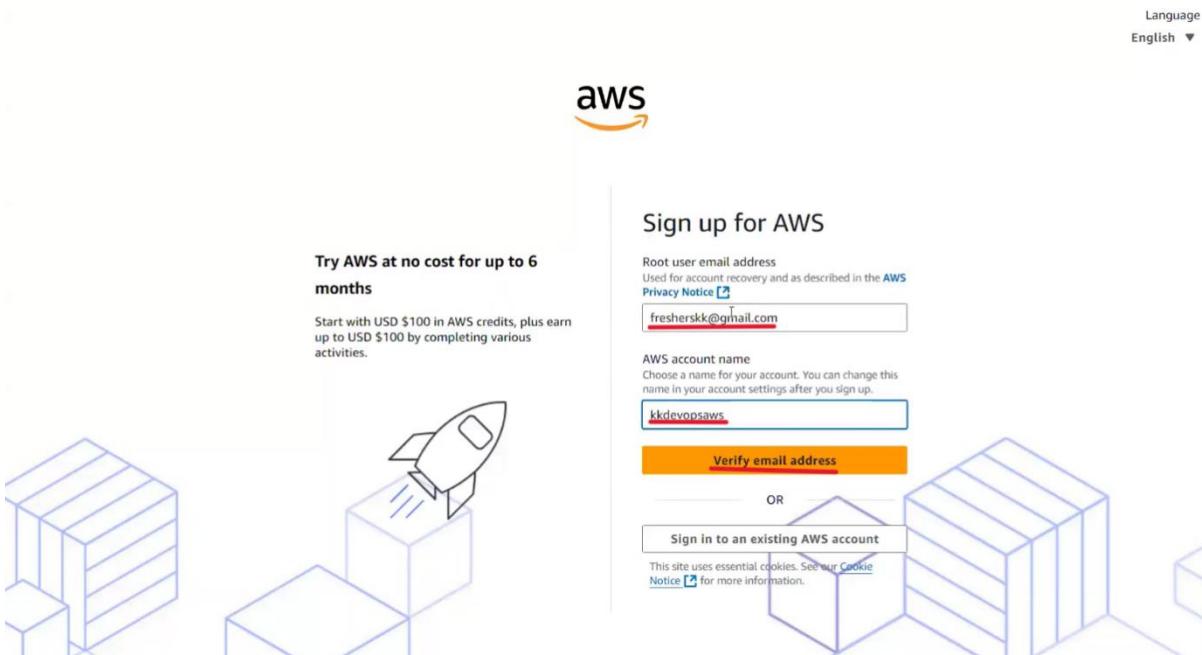
3. Create a New AWS Account

- On the homepage, click “Create a new AWS account”. Or, if you see “New to AWS? Sign up”, click that.



4. Enter Email & Account Name

- Provide a valid **Email address** and a unique **Account name** (any name you like)

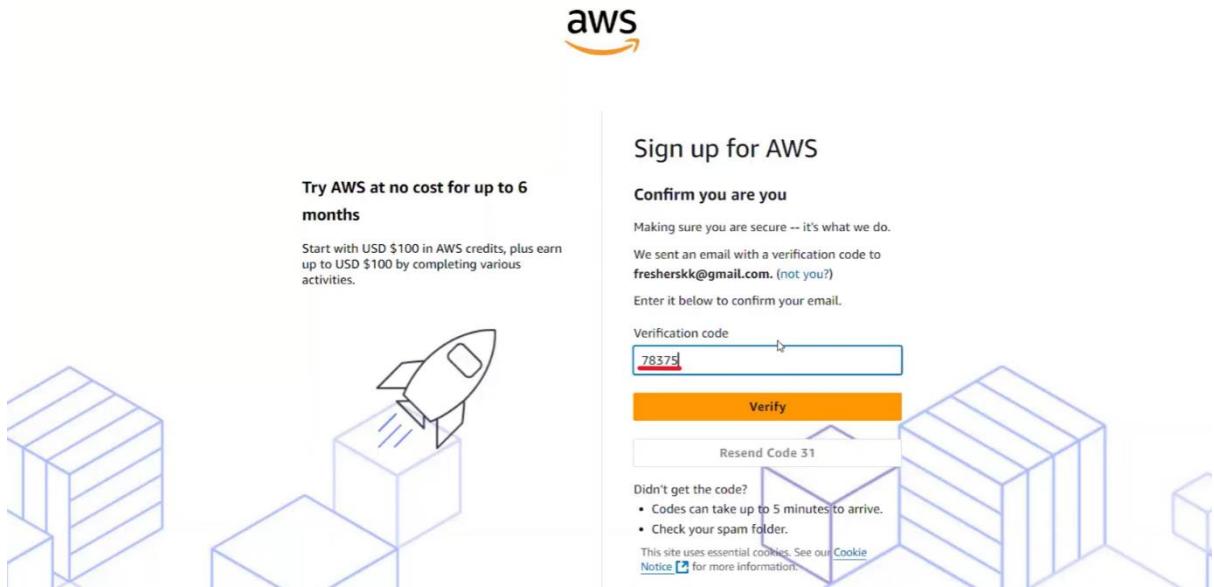


- Click “Verify email address”.
- AWS will send a **verification code** to your email.

5. Email Verification

- Go to your **Gmail inbox**, copy the **verification code**.

Language
English ▾

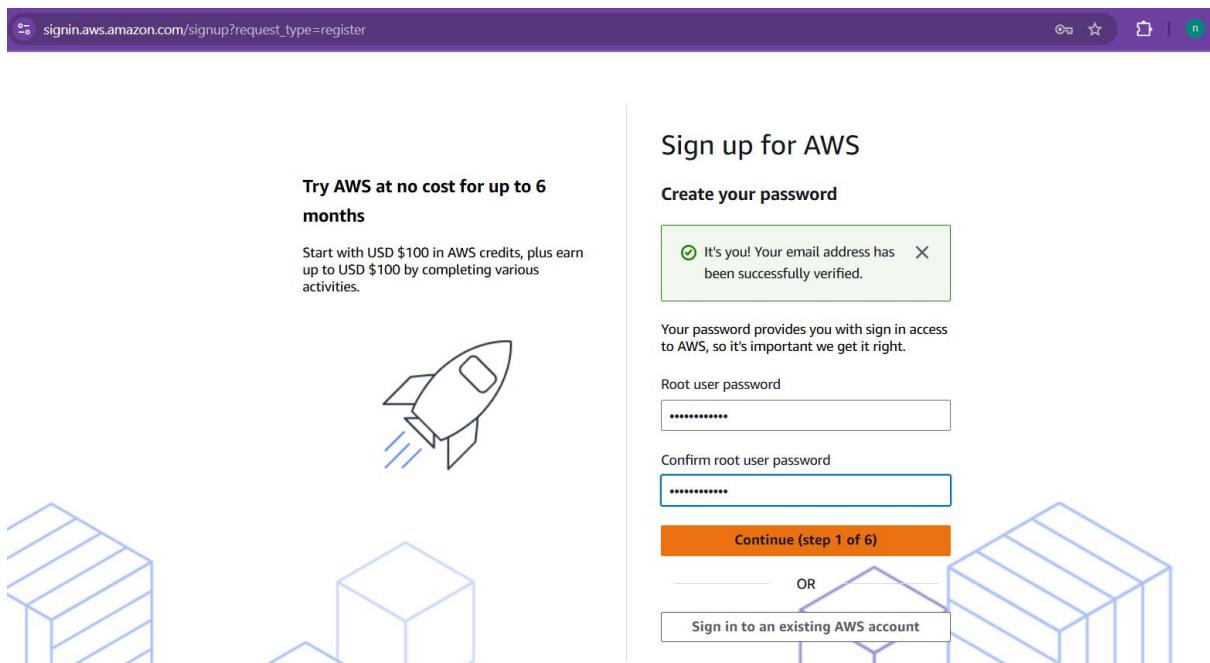


- Paste the code in the box and click “Verify”.

6. Set Root User Password

1. Root User Password

- Enter a strong password
- Confirm the password.



Choose Your Account Plan

You have **two options**:

Free (6 months) – Best for learning & practice

This plan is ideal for **students, beginners, and practice purposes**.

- You will receive **up to \$200 AWS credits** to use selected AWS services.
- Many AWS services are available **free within specific limits**, such as EC2, S3, and others.
- You can **learn, practice, and build small projects** without paying any money.
- No charges will be applied as long as you stay within the free usage limits and credits.

Important Note:

- After **6 months**, or if the **credits are fully used**, the account will **automatically close** unless you upgrade to a paid plan.
- To continue using AWS services after that, you must switch to the **Paid Plan**.

The screenshot shows the AWS sign-up process at portal.aws.amazon.com/billing/signup?type=register#/accountplan. The title is "Sign up for AWS" and the sub-section is "Choose your account plan".

Free (6 months)

- ✓ Receive up to \$200 in credits
- ✓ Includes free usage of select services
- ✗ Workloads scale beyond credit thresholds
- ✗ Access to all AWS services and features

ⓘ After the 6 month free period or when all credits are used, you can choose to upgrade to a paid plan. Otherwise, your account closes automatically.

[Choose free plan](#)

Paid

- ✓ Receive up to \$200 in credits
- ✓ Includes free usage of select services
- ✓ Workloads scale beyond credit thresholds
- ✓ Access to all AWS services and features

ⓘ After all of your credits are used, you are charged using pay-as-you-go pricing.

[Choose paid plan](#)

2. Account Information

- Enter your **Full name**.
- Enter your **Phone number**.

Contact Information

Full Name
Gangavaram Prasanth

Organization name - optional

Country Code Phone Number
+91 8639580177

Country or Region
India

Address line 1
S/O GANGAVARAM PENCHALAIH

Address line 2 - optional
8007, Royal Fountain Square, CV RAMAN N

City
Bangalore

State, Province, or Region
Karnataka

Postal Code
560093

Customers with an Indian contact address are served by Amazon Web Services India Private Limited, the local seller for AWS services in India.

I have read and agree to the terms of the [AWS Customer Agreement](#).

- Enter your **Country/Region, Address, City, State, Postal code**.
- Agree to the terms.

3. Payment Information

AWS requires a **payment method** for **identity verification**.
You will **not be charged** if you stay within the **Free Tier limits**.

AWS supports:

- **UPI AutoPay (India)**
- **Credit / Debit Card**

Option 1: Payment Using UPI (Recommended for India)

UPI AutoPay Setup

- Select **UPI AutoPay** as the payment method.
- You must **enable AutoPay** during setup.



Sign up for AWS

Billing Information

Why is this required?
Our verification process holds USD \$1 (or equivalent) for 3-5 days to verify your account and prevent fraud.

For the free plan, no charges occur until upgrade to a paid plan. Providing your billing information now enables a seamless upgrade to a paid plan.

Payment method type

UPI AutoPay
Set up automatic payments using Unified Payments Interface (UPI).

Credit or debit card
AWS accepts all major credit and debit cards.

UPI AutoPay information
Use your preferred UPI app to setup automatic payments. You can cancel AutoPay at any time.
[Learn more ↗](#)

Automatic payment limit
₹15,000

UPI ID

- **Automatic Payment Limit**
- AWS sets an **AutoPay limit of ₹15,000**.
- This **does NOT mean AWS will charge ₹15,000 immediately**.
- This is only the **maximum allowed limit** if you later use paid services.

For the free plan, no charges occur until upgrade to a paid plan. Providing your billing information now enables a seamless upgrade to a paid plan.

Payment method type

UPI AutoPay
Set up automatic payments using Unified Payments Interface (UPI).

Credit or debit card
AWS accepts all major credit and debit cards.

UPI AutoPay information
Use your preferred UPI app to setup automatic payments. You can cancel AutoPay at any time.
[Learn more ↗](#)

Automatic payment limit
₹15,000

UPI ID

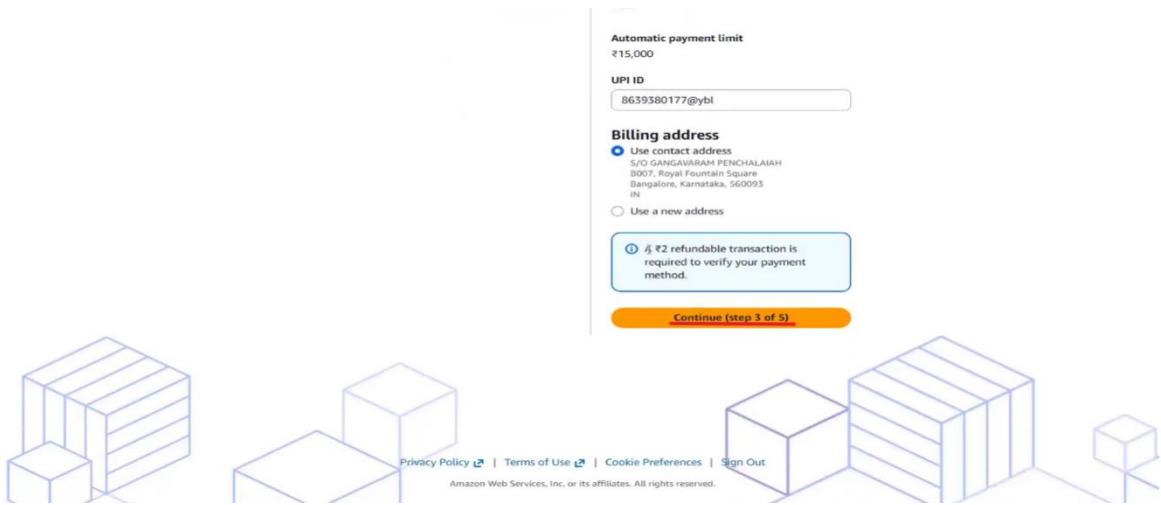
Billing address

User contact address
8/O GANGAVARAM PENCHALAI/AH
8007, Royal Fountain Square
Bangalore, Karnataka, 560093
IN

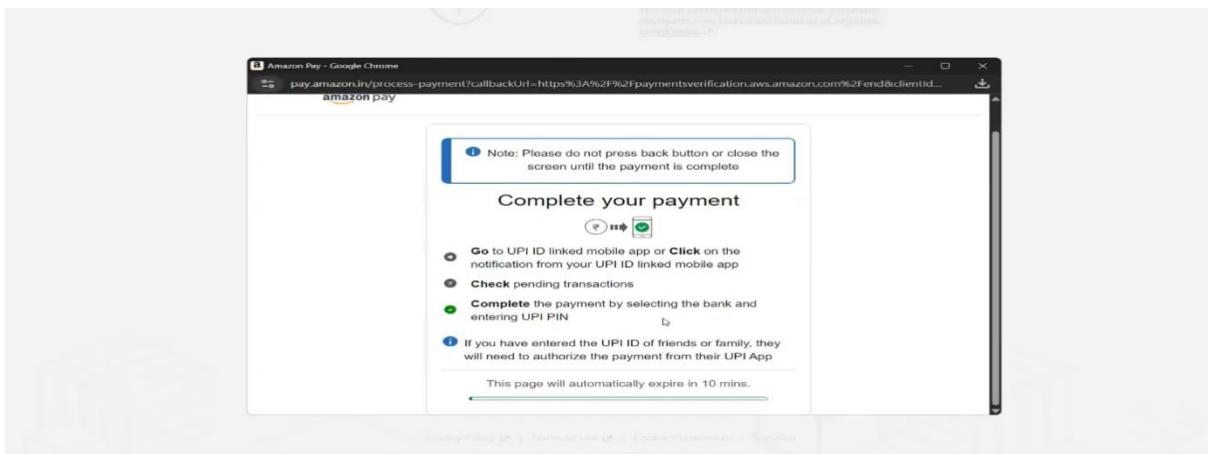
Use a new address

A ₹2 refundable transaction is required to verify your payment method.

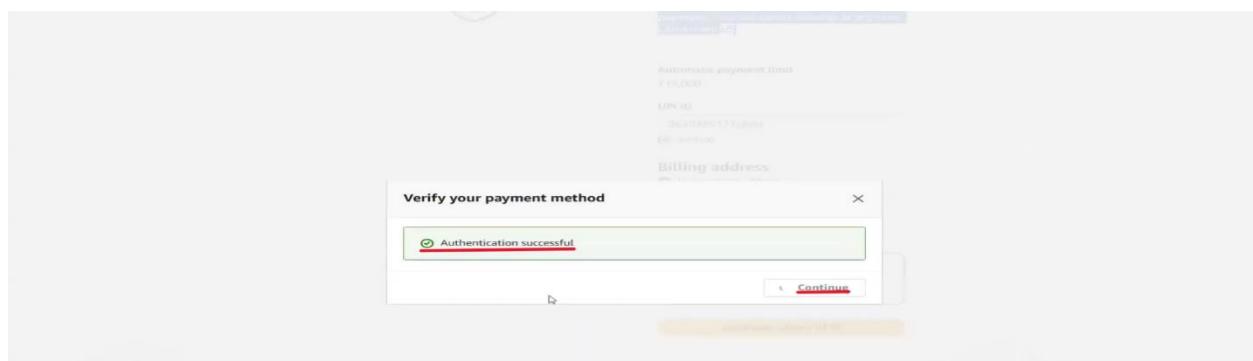
- Select **Use contact address** (recommended).



- A new **Amazon Pay** window will open.
- You will see the message “**Complete your payment**”.

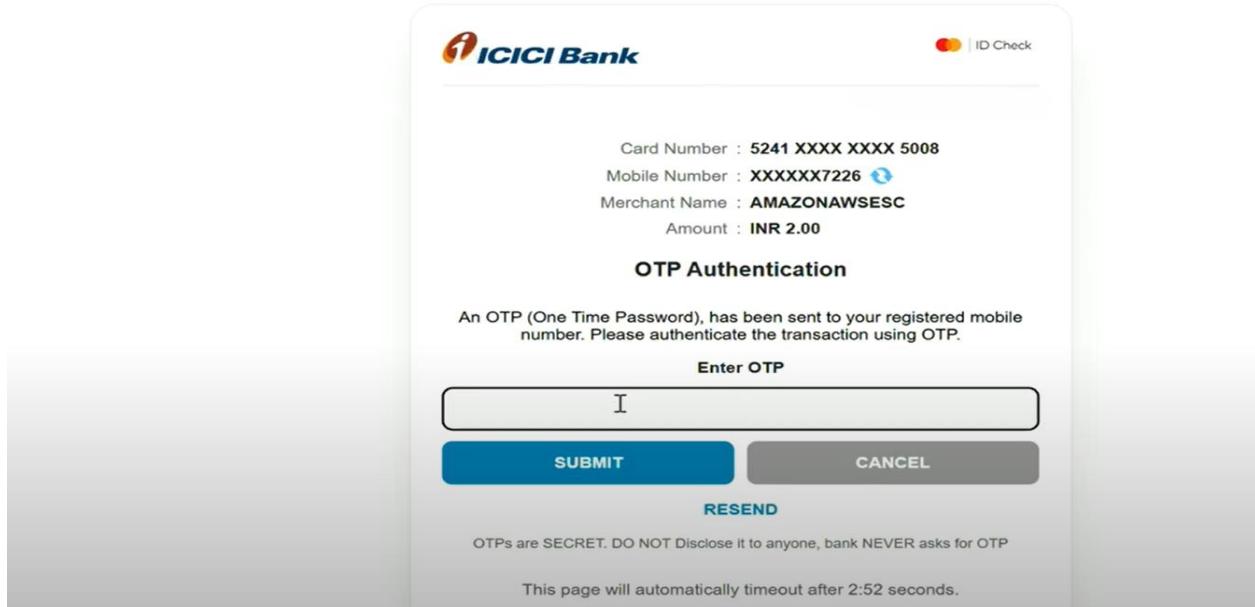


- Open your **UPI app** (Google Pay / PhonePe / Paytm / BHIM).
- Check for a **pending request / notification**.
- Approve the request by:
- Selecting your **bank**
- Entering your **UPI PIN**
- **Do not refresh, go back, or close the browser** until payment completes.



Option 2: Payment Using Credit / Debit Card

Important Note (India Users)



- Make sure **International Transactions are enabled** on your card.
- Otherwise, payment verification may fail.
- **Enter Card Details**
- AWS will place a **small temporary charge (\$1 or ₹2 INR)** → this will be **refunded automatically**.
- **About PAN Card (for India users):**
- AWS sometimes asks whether you have a **PAN (Permanent Account Number)**.
- If you don't want to add it now, select **No** and continue. You can add it later.

Use a new address

Do you have a PAN?
Permanent Account Number (PAN) is a ten-digit alphanumeric number issued by the Indian Income Tax Department. This 10-digit number is printed on the front of your PAN card.

Yes
 No

You can go on the Tax Settings Page on Billing and Cost Management Console to update your PAN information.

Verify and continue (step 3 of 5)

You might be redirected to your bank's website to authorize the verification charge.

OTP Verification

- After entering details, you'll receive a **payment OTP from your bank**.

Enter the OTP and click “**Confirm**”.

- If successful, you’ll see confirmation that your **payment method is added**.

4. Confirm Your Identity

- **Select purpose of account** → Choose **Personal use**.
- **User type** → Select **Individual**.
- **Identity verification document** → Choose **PAN Card**.
- Enter your **Date of Birth (DOB)** exactly as per PAN card.

Sign up for AWS

Confirm your identity ⓘ

Primary purpose of account registration
Choose one that best applies to you. If your account is tied to a business, select the one that applies to your business.

Personal use

Ownership type
Choose your ownership relation to the account.
Based on your selection, you may be asked to complete additional customer verification steps.

Individual

India document type ⓘ

To verify your identity, the name on the document must match the name that you chose.

PAN card

Date of birth
To use this document type, you must be at least 18 years old.

YYYY/MM/DD

Format: YYYY/MM/DD

Name ⓘ

Choose the name that you want to use for identity verification.

Gangavaram Prasanth

- Enter your **PAN card number**.
- Select the **account identity**
- **Upload a clear image of your PAN card** (front side).

Name ⓘ

Choose the name that you want to use for identity verification.

Gangavaram Prasanth

Permanent Account Number (PAN)

Enter Permanent Account Number (PAN),

The PAN is 10 alphanumeric characters without spaces or tabs. Example: AAAAA1111B

Upload front of Permanent Account Number (PAN) card

Choose file

File must be in .pdf, .jpg, .jpeg, or .png format.
Minimum file size is 100 B and maximum file size is 5 MB.

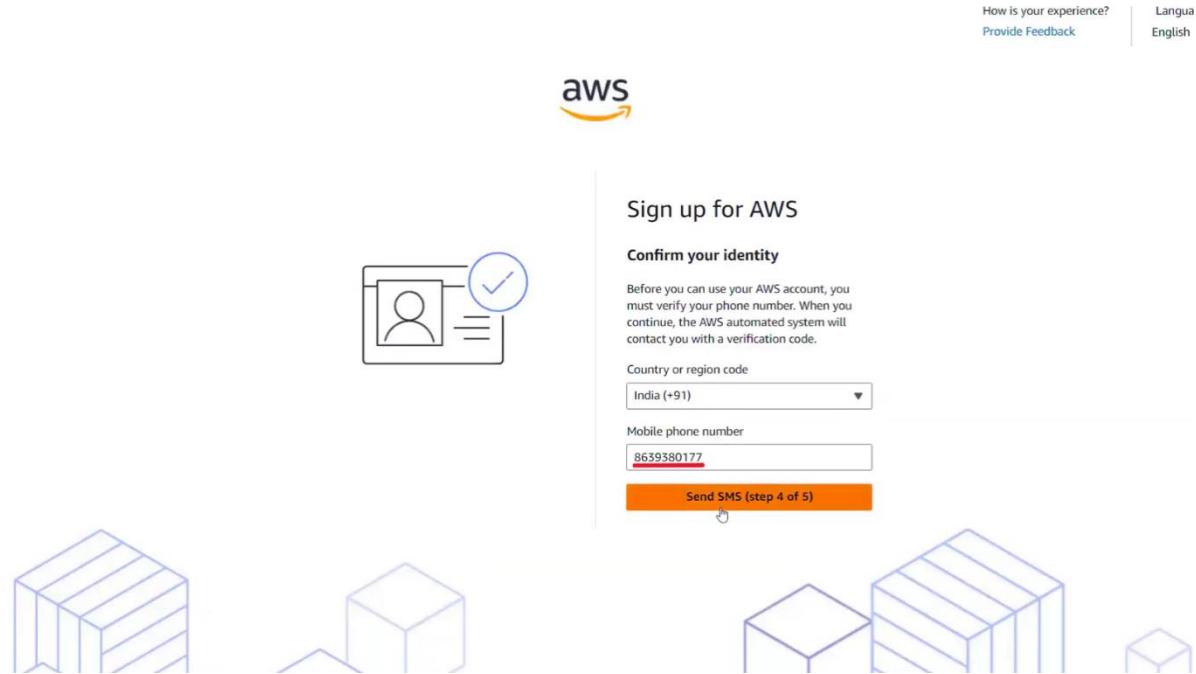
I consent to allowing AWS to use and send the information above to a third-party service for identity verification purposes.

Continue (step 4 of 5)

- Make sure it's sharp and all details are visible.
- Click **Continue**.

Mobile Verification

1. Enter your **mobile number**.
2. Click **Send SMS**.

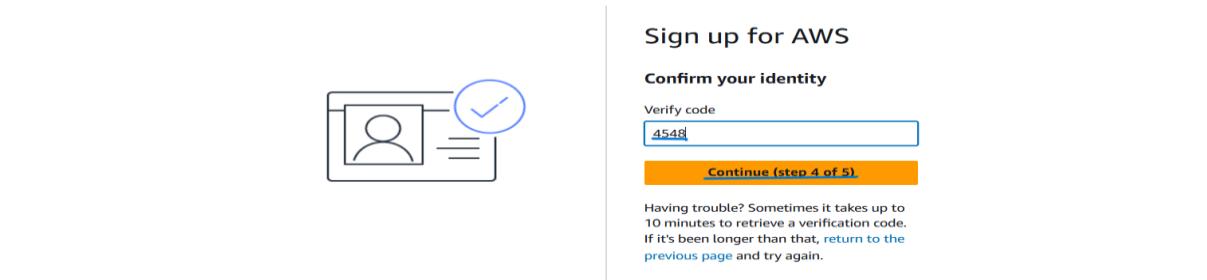


3. **solve CAPTCHA** (enter the characters shown).



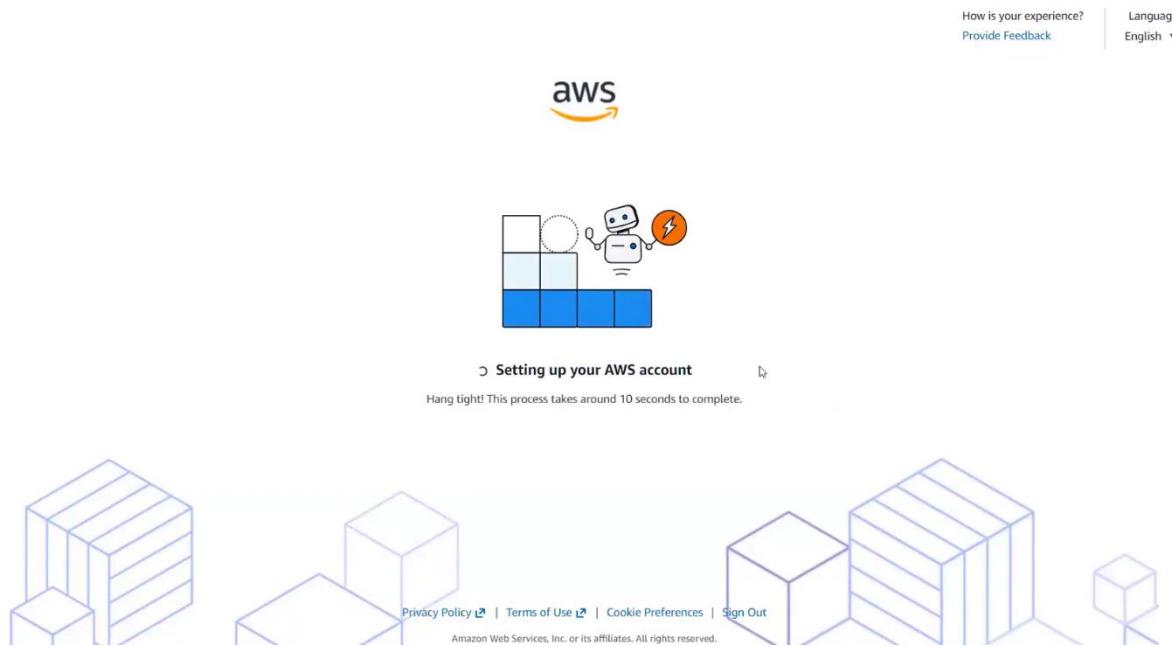
3. Enter the **OTP you receive**.

After this, your identity will be successfully verified.

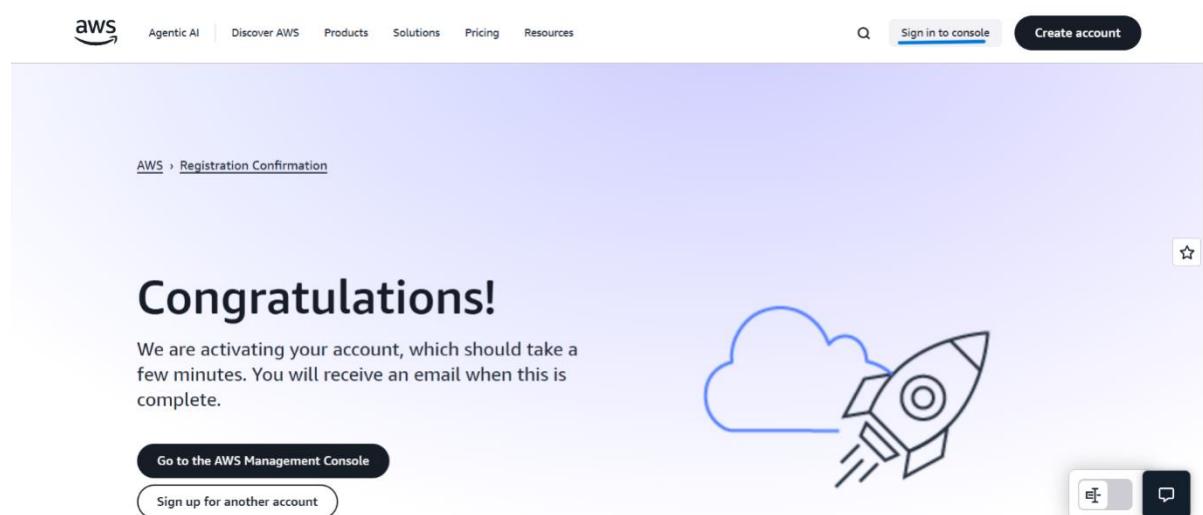


5. AWS Account Setup in Progress

- Your AWS account signup is now complete.



- You'll get a **Welcome Email** from AWS, and you can log in to the **AWS Management Console**.



- Click “Sign in to Console”.
- Choose “Root user”, enter your registered email.
- Click **Next**, enter your password, then **Sign In**.
- You'll now be logged in to the **AWS Cloud Console** and can start using AWS services.

The screenshot shows the AWS Console Home page. At the top right, it displays the region as Asia Pacific (Mumbai) and the account name as kkdevopsaws (8120-1528-7079). On the left, there's a sidebar with 'Recently visited' services (EC2, IAM, Elastic Container Registry), a 'Welcome to AWS' section, and an 'AWS Health' section. The main area has a 'Free plan status' summary: Credits remaining \$100.00 USD, Days remaining 182 days. It also shows the account ID (8120-1528-7079), account name (kkdevopsaws), and account color (Unset). A dropdown menu for 'Select Region' is open, showing 'ap-south-1 (Current Region)' as the selected option. Other options in the dropdown include Account, Organization, Service Quotas, Billing and Cost Management, Security credentials, and Console Mobile App. At the bottom right are 'Turn on multi-session support' and 'Sign out' buttons.

6. Launching an EC2 Instance (AWS Virtual Server)

Step 1: Choose Region

- You can create the server in **any AWS region** you have access to.
- Note: Some regions might **not be available** to you due to permission restrictions or quotas.

The screenshot shows the AWS Console Home page with the region set to Europe (Stockholm). The 'Select Region' dropdown is open, displaying a comprehensive list of AWS regions categorized by continent: United States, Asia Pacific, Canada, and Europe. The United States region list includes N. Virginia, Ohio, N. California, Oregon, and more. The Asia Pacific region list includes Mumbai, Osaka, Seoul, Singapore, Sydney, and Tokyo. The Canada region list includes Central. The Europe region list includes Frankfurt, Ireland, London, Paris, and Stockholm. At the bottom right of the dropdown, there are 'Manage Regions' and 'Manage Local Zones' buttons.

Step 2: Open EC2 Dashboard

- Search “EC2” → Click on EC2 to open the dashboard.

The screenshot shows the AWS console search results. A search bar at the top contains the text "ec2". Below the search bar, there is a sidebar with navigation links: Services, Features, Resources, and a "New" button. The main content area displays a card for the "EC2" service, which is described as "Virtual Servers in the Cloud". To the right of the card are buttons for "Reset to default layout", "+ Add widget", and "Create application". The top right corner of the screen shows "Europe (Stockholm)".

Step 3: Launch New Instance

- Click “Launch Instance”
- In AWS Console, search for "EC2" and open the EC2 Dashboard.
- Click "Launch Instance".
- Name your instance: Example – kkdevops.

The screenshot shows the AWS EC2 dashboard. On the left, there is a sidebar with options: Dashboard, EC2 Global View, Events, Instances (with sub-options: Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Benefits and features, and Get started. The main content area has a title "Amazon Elastic Compute Cloud (EC2)" and a subtitle "Create, manage, and monitor virtual servers in the cloud.". Below this, there is a paragraph about Amazon EC2's offerings and a large yellow "Launch instance" button. To the right of the "Launch instance" button is a blue "View dashboard" button. The top right corner of the screen shows "Compute".

Step 4: Choose OS (AMI / Flavour)

- Choose the **OS (distribution)** you want, like **Red Hat (RHEL)**, Ubuntu, or Amazon Linux.
- These are called **AMI (Amazon Machine Images)**.

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

kkdevops

[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**

Amazon Machine Image (AMI)



[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

▼ SummaryNumber of instances [Info](#)

1

Software Image (AMI)

Provided by Red Hat, Inc.
ami-0038df39db13a87e2

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 10 GiB

ⓘ **Free tier:** In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier.

[Cancel](#)[Launch instance](#)[Preview code](#)**Step 5 : Choose Instance Type**

- For basic use or learning, **t2.micro** is enough.
- It is **Free Tier Eligible** and works fine for testing or small projects.

Description

Red Hat Enterprise Linux version 10 (HVM), EBS General Purpose (SSD) Volume Type

[Search](#)

t2.nano

Family: t2 1 vCPU 0.5 GiB Memory Current generation: true
On-Demand Ubuntu Pro base pricing: 0.008 USD per Hour
On-Demand SUSE base pricing: 0.0062 USD per Hour On-Demand Linux base pricing: 0.0062 USD per Hour
On-Demand Windows base pricing: 0.0085 USD per Hour

[Verified provider](#)

t2.micro

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: 0.0268 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0142 USD per Hour
On-Demand SUSE base pricing: 0.0124 USD per Hour

Free tier eligible



t2.micro

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: 0.0268 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0142 USD per Hour On-Demand SUSE base pricing: 0.0124 USD per Hour

Free tier eligible

[All generations](#)[Compare instance types](#)[Additional costs apply for AMIs with pre-installed software](#)**▼ Key pair (login)** [Info](#)**▼ Summary**Number of instances [Info](#)

1

Software Image (AMI)

Provided by Red Hat, Inc.
ami-0038df39db13a87e2

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 10 GiB

ⓘ **Free tier:** In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier.

Step 6 : Create or Use a Key Pair

- A key pair is needed to connect securely (via SSH) to your instance.

The screenshot shows the AWS EC2 'Launch an instance' wizard. In the 'Key pair (login)' step, there is a blue box around the 'Create new key pair' button. The 'Virtual server type (instance type)' is set to 't2.micro'. A tooltip for the free tier is visible on the right.

If you **don't have one**, click **Create new key pair**:

- Name: kkdevops
- Type: RSA
- Format: **.pem**
- Now, click on "Create key pair." This will automatically download the .pem file, which is usually saved in your **Downloads** folder.

Tip: You can **reuse existing key pairs** for future instances instead of creating a new one each time.

The screenshot shows the 'Create key pair' dialog box. It includes fields for 'Key pair name' (kkdevops), 'Key pair type' (RSA), 'Private key file format' (.pem), and a note about storing the private key. The 'Create key pair' button is highlighted.

- Click "Launch Instance"

Environment variables

Name	Type	Value
SECRET_KEY	String	SECRET
ACCESS_KEY	String	ACCESS

Next Step

- Now you can see the instance launched successfully.
- Select the instance to view the launched instances.

Lambda function configuration

Basic

Advanced

Next Step

7. After Launching the EC2 Instance: How to Connect Using Git Bash Once the EC2 instance is launched successfully, we need a way to **connect to the server from our local machine**. This is where **Git Bash** comes in.

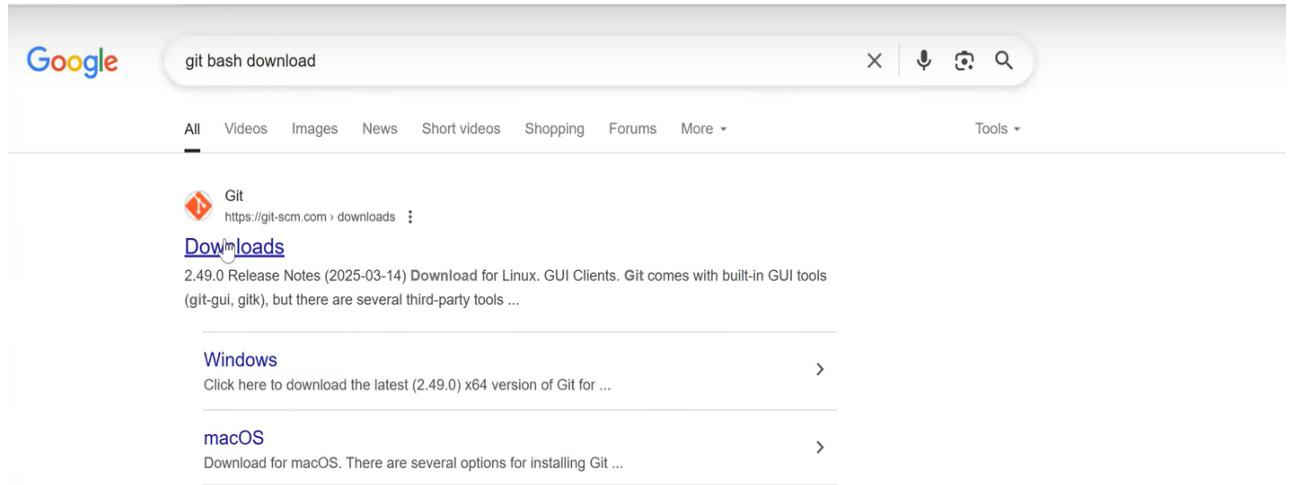
Test

Logs

Step 1: Install Git Bash

If you don't have Git Bash on your system:

- **Open Google** and search for: Git Bash download
- Click on the link that goes to <https://git-scm.com/>



Google git bash download

All Videos Images News Short videos Shopping Forums More Tools

Downloads

2.49.0 Release Notes (2025-03-14) Download for Linux. GUI Clients. Git comes with built-in GUI tools (git-gui, gitk), but there are several third-party tools ...

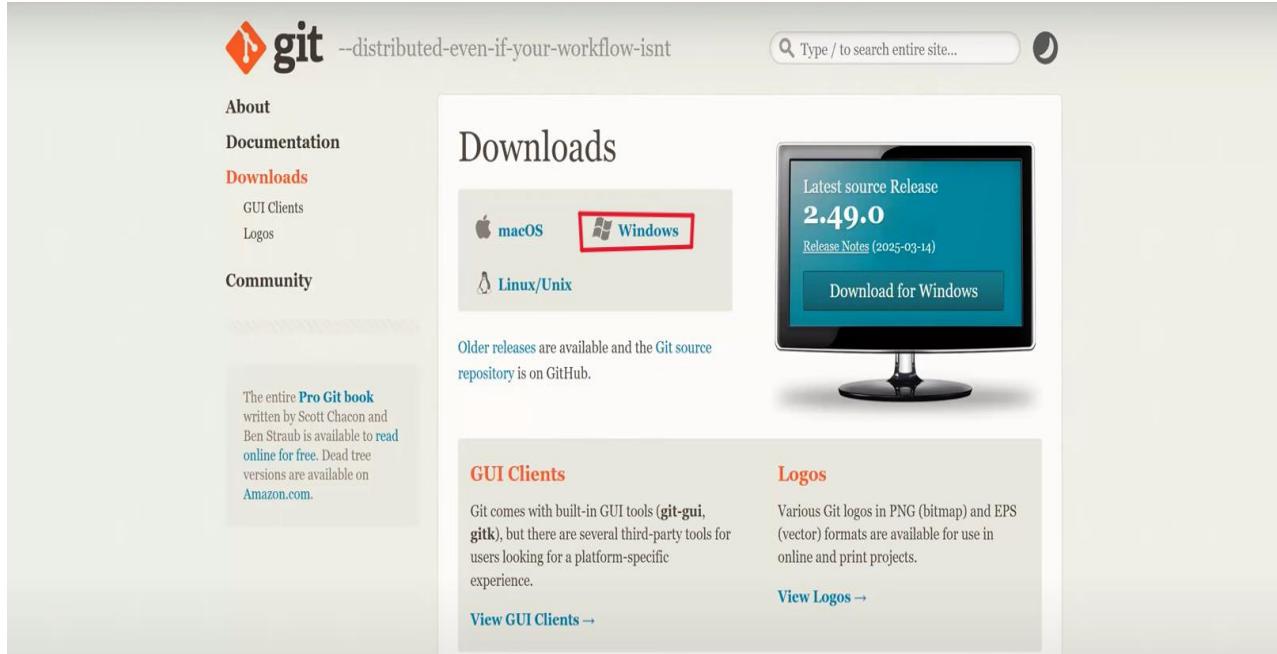
Windows >

Click here to download the latest (2.49.0) x64 version of Git for ...

macOS >

Download for macOS. There are several options for installing Git ...

- On the site, click on **Download for Windows**



The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads

macOS Windows **Windows** (highlighted)

Linux/Unix

Older releases are available and the Git source repository is on GitHub.

GUI Clients

Git comes with built-in GUI tools (`git-gui`, `gitk`), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

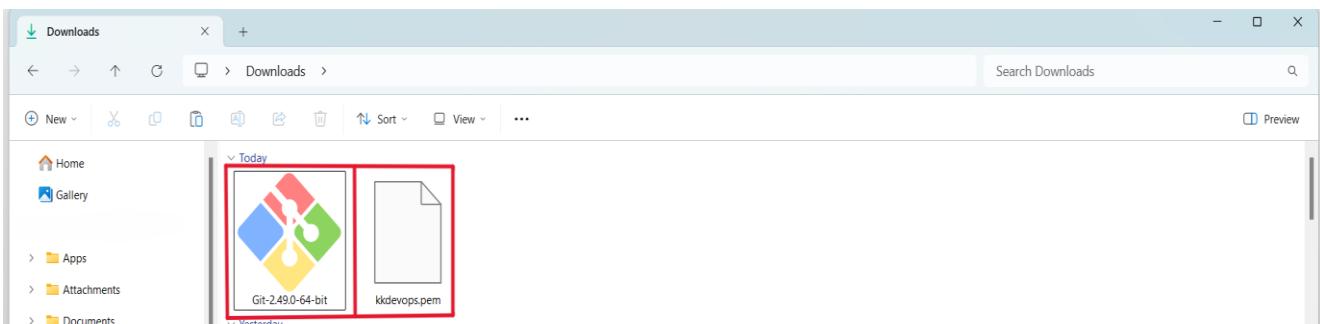
Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

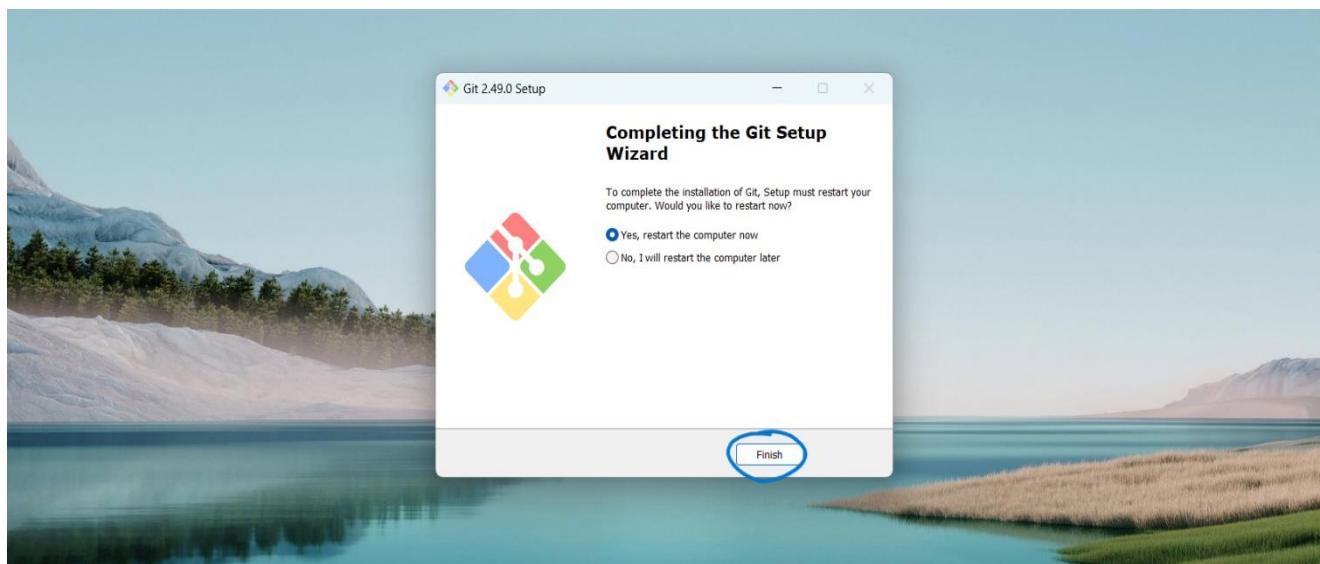
[View Logos →](#)

The screenshot shows a web browser window with the URL git-scm.com/downloads/win. On the left, there's a sidebar with links like 'About', 'Documentation', 'Downloads' (which is highlighted), 'Community', and a link to the 'Pro Git book'. The main content area is titled 'Download for Windows' and contains a link to download the latest version (2.49.0) of Git for Windows. Below this, there are sections for 'Other Git for Windows downloads' and links to 'Standalone Installer', 'Git for Windows/x64 Setup.', 'Git for Windows/ARM64 Setup.', 'Portable ("thumbdrive edition")', 'Git for Windows/x64 Portable.', and 'Git for Windows/ARM64 Portable.'.

- Click on click here" to download
- After installation, you'll see **Git Bash** on your desktop or start menu.



- Once downloaded, install it by clicking Next → Next → Install



Step 2: Get the SSH Command from AWS Console

- Go to your EC2 Dashboard
- Select your running instance

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with 'EC2' selected. Under 'Instances', 'Instances' is also selected. The main area shows 'Instances (1/1) Info'. A single instance is listed: 'kkdevops' (i-0a04e7c5268a584e7), which is 'Running'. The 'Connect' button is highlighted with a red box. Below the table, there's a detailed view for 'i-0a04e7c5268a584e7 (kkdevops)' with tabs for 'Details', 'Status and alarms', 'Monitoring', 'Security', 'Networking', 'Storage', and 'Tags'. The 'Details' tab is selected.

- Click the “Connect” button on top
- In the "SSH client" section, you'll see a command that looks like this: ssh -i "your-key.pem" ec2-user@<your-ec2-public-ip>

The screenshot shows the 'Connect to instance' page for the instance 'i-0a04e7c5268a584e7 (kkdevops)'. At the top, there's a navigation bar with the AWS logo, search bar, and other navigation links. Below it, the URL shows 'EC2 > Instances > i-0a04e7c5268a584e7 > Connect to instance'. The main content area has a title 'Connect to instance' with a 'Info' link. It says 'Connect to your instance i-0a04e7c5268a584e7 (kkdevops) using any of these options'. There are four tabs: 'EC2 Instance Connect', 'Session Manager', 'SSH client' (which is selected and highlighted in blue), and 'EC2 serial console'. Below the tabs, the 'Instance ID' is listed as 'i-0a04e7c5268a584e7 (kkdevops)'. A numbered list provides steps: 1. Open an SSH client. 2. Locate your private key file. 3. Run this command, if necessary, to ensure your key is not publicly viewable. 4. Connect to your instance using its Public DNS. The final step 4 is shown with a copy icon and the command: 'ssh -i "kkdevops.pem" ec2-user@ec2-13-201-19-152.ap-south-1.compute.amazonaws.com'. This entire section is enclosed in a red box. Below this, there's an 'Example:' section with a copy icon and the same command: 'ssh -i "kkdevops.pem" ec2-user@ec2-13-201-19-152.ap-south-1.compute.amazonaws.com'. At the bottom, there's a note: 'Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.'

Copy that command it includes your .pem key and the EC2 public IP.

Step 4: Paste the SSH Command in Git Bash

- Open **Git Bash** on your system.
- Move to the folder where your .pem file is saved (usually in **Downloads**):

cd ~/Downloads

- Now **paste the SSH command** you copied from the AWS Console: Press **Enter**.

```
kandl@LAPTOP-RKC036UK MINGW64 ~
$ cd Downloads/
$ ssh -i "kkdevops.pem" ec2-user@ec2-13-201-19-152.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-13-201-19-152.ap-south-1.compute.amazonaws.com (13.201.19.152)' can't be established.
ED25519 key fingerprint is SHA256:jFTlbsoubkrmBtsv6w5/i2n6/6wn1ZYToUoNjN8fNyc.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-13-201-19-152.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
Register this system with Red Hat Insights: rhc connect

Example:
# rhc connect --activation-key <key> --organization <org>
The rhc client and Red Hat Insights will enable analytics and additional
management capabilities on your system.
View your connected systems at https://console.redhat.com/insights

You can learn more about how to register your system
using rhc at https://red.ht/registration
[ec2-user@ip-172-31-14-201 ~]$ 
[ec2-user@ip-172-31-14-201 ~]$ 
[ec2-user@ip-172-31-14-201 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-14-201 ~]$ 
[ec2-user@ip-172-31-14-201 ~]$ |
```

- The terminal may ask: Are you sure you want to continue connecting (yes/no)?
- That's it! You are now connected to your EC2 instance