Getting Started with AWS Cloud

For Technical Documentation Team

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Contents

Overview

AWS (Amazon Web Services) is a cloud computing application that provides on-demand IT services. It offers services such as computing power, storage, and databases over the Internet. Businesses and individuals utilize AWS to run applications without needing physical servers. It is scalable, cost-effective, and widely utilized across industries.

This guide helps you get started with AWS Cloud. It covers account setup, key services, and basic steps to launch cloud resources.

What is cloud computing?

Cloud computing is the delivery of computing services such as servers, storage, databases, and software over the internet. Instead of owning physical hardware, you access these resources on-demand from cloud providers such as AWS. It is cost-effective, scalable, and allows businesses to focus on innovation rather than managing infrastructure.

Services

AWS offers a variety of cloud services to meet different needs. These services help businesses with computing, storage, databases, networking, security, and more. Below are some of the services.
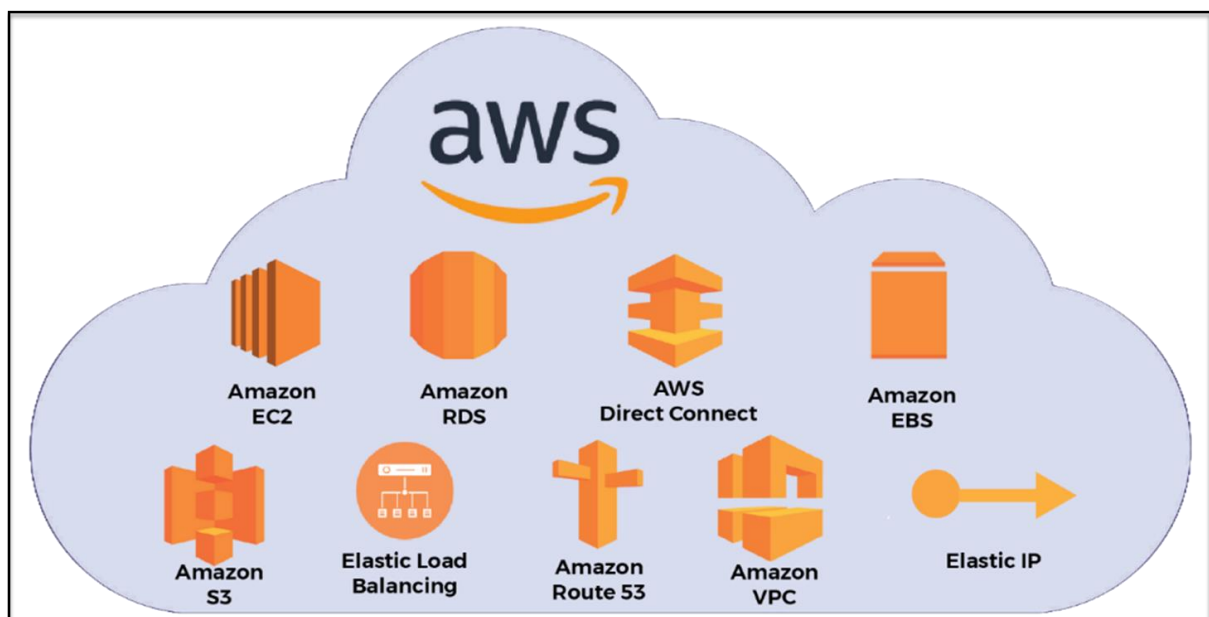
Category	Services	Description
Compute Services	EC2, Lambda	Virtual servers and serverless computing
Storage Services	S3, EBS	Object and block storage solutions
Database Services	RDS, DynamoDB	Managed SQL and NoSQL databases
Networking Services	VPC, Route 53	Private cloud networking and DNS management
Security Services	IAM, AWS Shield	Identity management and DDoS protection
Analytics Services	Redshift, Glue	Data warehousing and ETL processing
Machine Learning	SageMaker, Rekognition	AI model training and image recognition
Management and Monitoring	CloudWatch, AWS Config	Performance monitoring and resource tracking
Developer Tools	CodePipeline, CloudFormation	CI/CD pipelines and infrastructure automation

Benefits

AWS offers many benefits that make it a top choice for cloud computing. It helps businesses run efficiently while reducing costs and management overhead.

- **Scalability:** Easy to scale resources up or down based on demand.

- **Cost-Effective:** Pay only for what you utilize, with no upfront costs.

- **Security:** Built-in security features and compliance certifications.

- **Reliability:** Highly available infrastructure with global data centers.

- **Flexibility:** Supports various programming languages, operating systems, and architectures.

- **Speed and Performance:** Fast deployment of applications and services.

- **Managed Services:** AWS handles infrastructure management, allowing businesses to focus on innovation.

Key Features

AWS provides powerful features that make cloud computing easy and efficient. It offers a wide range of services for businesses of all sizes.

- **Global Infrastructure:** Data centers worldwide ensure high availability.

- **On-Demand Resources:** Pay-as-you-go model for cost savings.

- **Security and Compliance:** Built-in security with industry certifications.

- **Automation:** Tools such as AWS Lambda and CloudFormation for automation.

- **Scalability:** Easily scale resources up or down as needed.

- **AI and Machine Learning:** Pre-built AI services and ML tools.

- **Hybrid Cloud Support:** Seamless integration with on-premises systems.

Prerequisites

Below are the basic requirements for AWS account setup, including verification, billing, and security information.

- **Valid Email Address:** Required for account creation, login, and AWS notifications.

- **Valid Phone number:** Required for identity verification and account security.

- **Address:** Needed for billing and tax purposes.

- **Valid Credit or Debit Card:** Required for payment verification and billing.

- **PAN (Permanent Account Number):** Required for tax compliance in India.

Getting Started

Getting started involves setting up your account to access AWS cloud services.

To set up,

1. On your browser, go to the AWS website.
2. On the landing page, perform one of the following actions:

   - Select **Create a Free Account**.

   - Select **Create an AWS Account**.
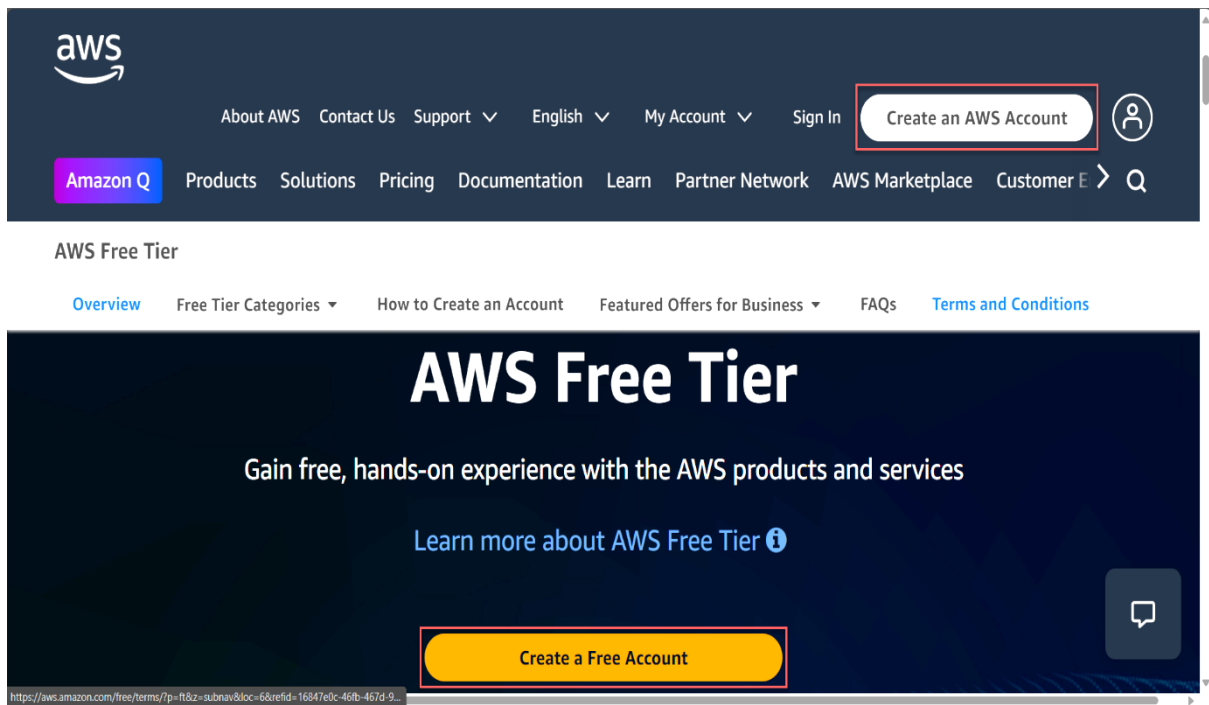
Sign Up page appears.

3. On the right pane of the **Sign up for AWS** page, perform the following steps:
   a. Enter a valid **Root user email address** and an **AWS account name** and select **Verify email address.**

Note: On the **Security Verification** box, enter the verification, and select **Submit**.

b.   Enter the **Verification code** sent to your mail and select **Verify**.

Sign up for AWS

Confirm you are you

Making sure you are secure -- it's what we do.

We sent an email with a verification code to
████ ██ ████ ████ (not you?)

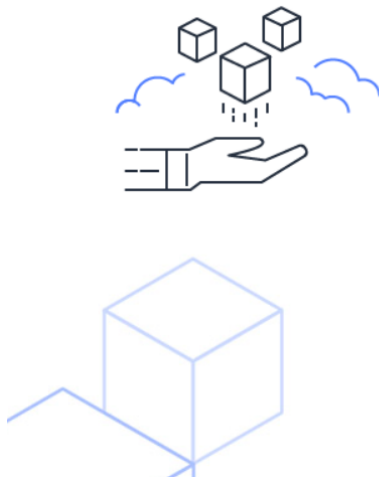Enter it below to confirm your email.

Verification code

████

Verify

Resend Code

Didn't get the code?
- Codes can take up to 5 minutes to arrive.
- Check your spam folder.

Explore Free Tier products with a new AWS account.

To learn more, visit aws.amazon.com/free.

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c. Enter the **Root user password** in valid format and **Confirm root user password**, and then select **Continue**.

Sign up for AWS

Create your password

✓ It's you! Your email address has been successfully verified. ✕

Your password provides you with sign in access to AWS, so it's important we get it right.

Root user password

████

Confirm root user password

████

Continue (step 1 of 5)

OR

Sign in to an existing AWS account

Explore Free Tier products with a new AWS account.

To learn more, visit aws.amazon.com/free.

d. Fill in the contact information by performing the following steps:

   i. Select one of the following options depending on what you plan to utilize AWS for:

- **Business**

- **Personal**

   ii. Enter the **Full name.**

   iii. Enter the **Organization name.**

       Note: For **Business** option**.**

   iv. Enter the **Country Code.**

   v. Enter the **Phone Number.**

   vi. Enter the **Country or Region.**

   vii. Enter **Address line 1.**

   viii. Enter **Address line 2.**

   ix. Enter the **City.**

   x. Enter the **State, Province, or Region.**

   xi. Enter the **Postal Code.**

   xii. Read the terms of the **AWS Customer Agreement** and agree to the terms by checking the box.

   xiii. Select **Agree and Continue.**

Free Tier offers

All AWS accounts can explore 3 different types of free offers, depending on the product used.

Always free
Never expires

12 months free
Start from initial sign-up date

Trials
Start from service activation date

Sign up for AWS

Contact Information

How do you plan to use AWS?

○ Business - for your work, school, or organization

● Personal - for your own projects

Who should we contact about this account?

Full Name

Country Code   **Phone Number**

▼

Country or Region

▼

Address line 1

Address line 2

City

State, Province, or Region

Postal Code

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 ↗.

Agree and Continue (step 2 of 5)

e. Fill in the billing information by performing the following steps:

    i. In the dropdown, select the **Billing country.**

    ii. Enter your valid **Credit or Debit card number**.

    iii. In the dropdown, select the **Expiration date** of the card**.**

    iv. Enter the **Security code** of the card**.**

    v. Enter the **Cardholder's name.**

    vi. (Optional) Save the card for future payments**.**

    vii. Select the **Billing address,** by selecting one of the options:

- **Use my contact address**

- **Use a new address** and enter the address.

    viii. Select the following options depending on whether you have **PAN** or not:

- **Yes**

- **No**

Note: This is for Indian citizens.

    ix. Enter the **PAN**.
Note: If you have selected the **Yes** option in having **PAN**.

    x. Select **Verify and continue**.

Sign up for AWS

Secure verification

ⓘ We will not charge you for usage below AWS Free Tier limits. We may temporarily hold up to $1 USD (or an equivalent amount in local currency) as a pending transaction for 3-5 days to verify your identity.

Billing Information

Billing country
Your billing country determines the payment methods available to you to pay for AWS services.

[▼]

Credit or Debit card number

[   ]

VISA   ●● mastercard   AMEX   RuPay»

AWS accepts most major credit and debit cards. To learn more about payment options, review our FAQ

Expiration date

[▼]   [▼]

Security code ⓘ

[   ]

Cardholder's name

[   ]

☐ Save card and charge automatically for future payments. Learn more.

Billing address
🔘 Use my contact address

⭕ 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.
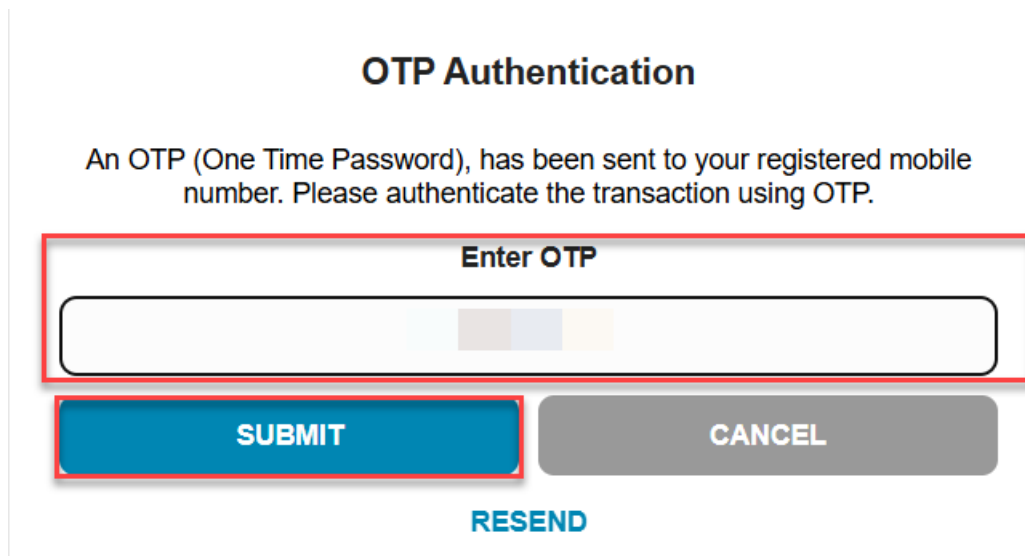🔘 Yes
⭕ No

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 Authentication page appears.

Note: In the **Enter OTP** box, enter the **OTP** sent to your mobile and select **SUBMIT.**

OTP Authentication

An OTP (One Time Password), has been sent to your registered mobile number. Please authenticate the transaction using OTP.

Enter OTP

SUBMIT	CANCEL

RESEND

f. Confirm your identity by performing the following steps:
   i. In the dropdown, select the **Primary purpose of account registration**.
   ii. In the dropdown, select the **Ownership type.**
   iii. In the dropdown, select the **India document type** you want to upload.
       Note: This is for Indian citizens.
   iv. Write the **Date of birth** in the required format.
       Note: For driving license, PAN, and passport.
   v. Write the document number for the selected document.
   vi. Select the **Name** for identity verification.
   vii. Upload the selected document with the correct format and size.
   viii. Give consent to allow AWS to send the information above to a third-party service for identity verification purposes by checking the box.
   ix. Select **Continue.**

Sign up for AWS

Confirm your identity ⓘ Info

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.

[_____ ▼]

Ownership type

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

[_____ ▼]

India document type ⓘ Info

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

[_____ ▼]

Date of birth

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

[_____]

Format: YYYY/MM/DD

Permanent Account Number (PAN)

[_____]

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

Name ⓘ Info

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

[_____]

[⤒ 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)**]

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g. Confirm your identity by performing the following steps:

    i. For AWS to send a verification code, select one of the following options:

- **Text message (SMS)**

- **Voice call**

    ii. In the dropdown, select the **Country or region code.**

    iii. Depending on the mode selected for verification, enter one of the following options:

- For **Text message (SMS)**
  a. Enter your **Mobile phone number.**
  b. Select **Send SMS.**

- For **Voice call**
  a. Enter your **Phone number.**
  b. In the **Ext** box, enter the extension.
  c. Select **Call me now.**

Sign up for AWS

Confirm your identity

Before you can use your AWS account, you must verify your phone number. When you continue, the AWS automated system will contact you with a verification code.

How should we send you the verification code?

◉ Text message (SMS)
○ Voice call

Country or region code

[_____ ▼]

Mobile phone number

[_____]

Send SMS (step 4 of 5)

Note: On the **Security Verification** box, complete the verification, and select **Submit**.

h. Confirm your identity by performing the following steps:

    i. In the **Verify code** box, enter the code you have received on your mobile or phone.

    ii. Select **Continue**.

i. Complete the signing-up process by performing the following steps:
   i. Select a support plan.
   ii. Select **Complete sign up.**

Sign up for AWS

Select a support plan

Choose a support plan for your business or personal account. Compare plans and pricing examples 🔗. You can change your plan anytime in the AWS Management Console.

◉ Basic support - Free
- Recommended for new users just getting started with AWS
- 24x7 self-service access to AWS resources
- For account and billing issues only
- Access to Personal Health Dashboard & Trusted Advisor

○ Developer support - From $29/month
- Recommended for developers experimenting with AWS
- Email access to AWS Support during business hours
- 12 (business)-hour response times

○ Business support - From $100/month
- Recommended for running production workloads on AWS
- 24x7 tech support via email, phone, and chat
- 1-hour response times
- Full set of Trusted Advisor best-practice recommendations

Need Enterprise level support?

From $15,000 a month you will receive 15-minute response times and concierge-style experience with an assigned Technical Account Manager. Learn more 🔗

Complete sign up

The signing-up process is completed.

Congratulations!

Thank you for signing up with AWS.

We are activating your account, which should take a few minutes. You will receive an email when this is complete.

Go to the AWS Management Console

Sign up for another account or Contact Sales

You can select **Go to the AWS Management Console** and start exploring AWS**.**

Next Steps

The next steps typically involve setting up your environment and getting familiar with AWS services.

1. Sign in to the AWS Management Console
    a. Open a web browser and go to AWS Console.
    b. Enter your **root user email** and **password**, then select **Sign in**.
    c. (Recommended) Create an **IAM user** for daily tasks instead of using the root account.
2. Secure Your AWS Account by performing the following actions:

    ● Enable **Multi-Factor Authentication (MFA)**.

    ● Create **IAM Users** and **Roles**.

    ● Set up **Billing Alerts**.
3. Explore AWS Free Tier and Services.
4. Create Your First AWS Resource such as,

- Launching an EC2 instance.

- Setting up an Amazon S3 Bucket.

- Deploying a Database with Amazon RDS.

5. Learn [AWS Best Practices.](#)
6. Try [AWS Hands-On Tutorials.](#)

FAQs

Here are five essential **FAQs** about getting started with AWS:

1. How do I create an AWS account?

- Go to the [AWS website](#) and select **Create an AWS account**.

- Enter your email, password, and billing details.

- Verify your identity.

- Select a support plan and complete the setup.

2. Is AWS free to operate?

- AWS offers a **Free Tier** for 12 months.

- After the free limits, you are charged.

3. How do I secure my AWS account?

- Enable **Multi-Factor Authentication (MFA)** for login security.

- Utilize **IAM users and roles** instead of the root account.

- Set up **billing alerts** to track your costs.

4. What AWS service should I start with?

- **EC2**: Run virtual machines.

- **S3**: Store and share files.

- **RDS**: Manage databases.

- **Lambda**: Execute code without servers.

5. How do I learn AWS quickly?

- Utilize **AWS Free Tier** to practice.

- Follow **AWS Training and Certification.**

- Try **AWS Hands-on Tutorials** and **Skill Builder**.

- Read **AWS Whitepapers and Guides.**