

AWS-Cloud

Introduction

Amazon Web Services (AWS) is a cloud computing platform that offers a range of services, including infrastructure as a service (IaaS), platform as a service (PaaS), and software as a service (SaaS). The AWS Cloud is a collection of these services that helps you to power your business, increase efficiency, and improve your scalability.

AWS offers a wide range of services, including compute, storage, databases, analytics, networking, developer tools, management tools and security.



Key services of AWS are:

- Amazon EC2
- Amazon Simple Storage Service
- AWS Command Line Interface
- Amazon CloudFront
- AWS Identity and Access Management

This Quick Start Guide helps you to understand on how to use Amazon EC2 to host an application.

Hosting an application on Amazon EC2

Hosting an application on Amazon EC2 (Elastic Compute Cloud) involves several steps, from setting up your AWS account to configuring your server.

To use,

1. Go to aws.amazon.com.
2. Enter your email ID and password. Home page appears.
3. Log in to the AWS Management Console.
4. Navigate to the EC2 service from the **Services** menu.
5. Click on **Launch Instance**.
6. Choose an Amazon Machine Image (AMI). You can select a Linux distribution (like Amazon Linux, Ubuntu) or Windows, depending on your application requirements.
7. Select the instance type based on performance needed for your application.
8. Set the number of instances, network settings and IAM role. Most default settings work for basic setups.
9. Configure the storage volume.
10. Review your settings and click **Launch**.
11. Select an existing key pair or create a new one. This key will allow you to SSH into your instance. So save it securely.
12. Connect to your instance, once it starts running.

- Use SSH: `ssh -i /path/to/your-key.pem ec2-user@your-instance-public-dns` for Linux.
 - Use Remote Desktop Protocol (RDP). Download the RDP file from the EC2 dashboard and use it with the username and password generated by AWS for Windows.
13. Install your application stack such as Apache or Nginx, database server such as MySQL, programming language runtimes.
 14. Upload your application code to the EC2 instance.
 15. Configure your web server to serve your application.
 16. Deploy your application.