**List of AWS Services:**

## Compute

1. Amazon EC2: Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides resizable computing capacity—literally, servers in Amazon's data centers—that you use to build and host your software systems.
2. Amazon ECS: Amazon EC2 Container Service (Amazon ECS) is a highly scalable, fast, container management service that makes it easy to run, stop, and manage docker containers on a cluster of Amazon EC2 instances.
3. Auto Scaling: Auto Scaling is a web service designed to launch or terminate Amazon EC2 instances automatically based on user-defined policies, schedules, and health checks.
4. Elastic Load Balancing:Elastic Load Balancing automatically distributes your incoming application traffic across multiple Amazon EC2 instances. It detects unhealthy instances and reroutes traffic to healthy instances until the unhealthy instances have been restored. Elastic Load Balancing automatically scales its request handling capacity in response to incoming traffic.
5. AWS Lambda: AWS Lambda is a zero-administration compute platform for back-end web developers that runs your code for you in the AWS cloud and provides you with a fine-grained pricing structure.

## Networking

1. Amazon VPC: Amazon Virtual Private Cloud (Amazon VPC) enables you to launch Amazon Web Services (AWS) resources into a virtual network that you've defined. This virtual network closely resembles a traditional network that you'd operate in your own data center, with the benefits of using the scalable infrastructure of AWS.
2. Amazon Route 53: Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service.
3. AWS Direct Connect: AWS Direct Connect links your internal network to an AWS Direct Connect location over a standard 1 gigabit or 10 gigabit Ethernet fiber-optic cable. One end of the cable is connected to your router, the other to an AWS Direct Connect router. With this connection in place, you can create virtual interfaces directly to the AWS cloud and Amazon Virtual Private Cloud, bypassing Internet service providers in your network path.

## Storage and Content delivery

1. Amazon S3: Amazon Simple Storage Service (Amazon S3) is storage for the Internet. You can use Amazon S3 to store and retrieve any amount of data at any time, from anywhere on the web. You can accomplish these tasks using the simple and intuitive web interface of the AWS Management Console.
2. Amazon EFS: Amazon EFS (Elastic File System) provides file storage for your EC2 instances. With Amazon EFS, you can create a file system, mount the file system on your EC2 instances, and then read and write data from your EC2 instances to and from your file system.
3. Amazon Storage Gateway: AWS Storage Gateway is a service that connects an on-premises software appliance with cloud-based storage to provide seamless and secure integration between your on-premises IT environment and the AWS storage infrastructure in the cloud.
4. Amazon Glacier: Amazon Glacier is a storage service optimized for infrequently used data, or "cold data." The service provides durable and extremely low-cost storage with security features for data archiving and backup. With Amazon Glacier, you can store your data cost effectively for months, years, or even decades. Amazon Glacier enables you to offload the administrative burdens of operating and scaling storage to AWS, so you don't have to worry about capacity planning, hardware provisioning, data replication, hardware failure detection and recovery, or time-consuming hardware migrations
5. Amazon Cloud Front: Amazon CloudFront is a web service that speeds up distribution of your static and dynamic web content, for example, .html, .css, .php, image, and media files, to end users. CloudFront delivers your content through a worldwide network of edge locations. When an end user requests content that you're serving with CloudFront, the user is routed to the edge location that provides the lowest latency, so content is delivered with the best possible performance.
6. Amazon EBS: Amazon Elastic Block Store (Amazon EBS) provides block level storage volumes for use with EC2 instances. EBS volumes are highly available and reliable storage volumes that can be attached to any running instance that is in the same Availability Zone.
7. AWS Import/Export: AWS Import/Export accelerates transferring large amounts of data between the AWS cloud and portable storage devices that you mail to us. AWS transfers data directly onto and off of your storage devices using Amazon’s high-speed internal network. Your data load typically begins the next business day after your storage device arrives at AWS. After the data export or import completes, we return your storage device. For large data sets, AWS Import/Export can be significantly faster than Internet transfer and more cost effective than upgrading your connectivity.

## Database

* 1. Amazon RDS: Amazon Relational Database Service (Amazon RDS) is a web service that makes it easier to set up, operate, and scale a relational database in the cloud. It provides cost-efficient, resizable capacity for an industry-standard relational database and manages common database administration tasks.
  2. Amazon DynamoDB: Amazon DynamoDB is a fully managed NoSQL database service that provides fast and predictable performance with seamless scalability. You can use Amazon DynamoDB to create a database table that can store and retrieve any amount of data, and serve any level of request traffic. Amazon DynamoDB automatically spreads the data and traffic for the table over a sufficient number of servers to handle the request capacity specified by the customer and the amount of data stored, while maintaining consistent and fast performance.
  3. Amazon ElastiCache: Amazon ElastiCache is a web service that makes it easy to set up, manage, and scale distributed in-memory cache environments in the cloud. It provides a high performance, resizable, and cost-effective in-memory cache, while removing the complexity associated with deploying and managing a distributed cache environment.
  4. Amazon Redshift: Amazon Redshift is a fast, fully managed, petabyte-scale data warehouse service that makes it simple and cost-effective to efficiently analyze all your data using your existing business intelligence tools. It is optimized for datasets ranging from a few hundred gigabytes to a petabyte or more and costs less than $1,000 per terabyte per year, a tenth the cost of most traditional data warehousing solutions.
  5. Amazon SimpleDB: Amazon SimpleDB is a highly available, scalable, and flexible non-relational data store that enables you to store and query data items using web services requests.

## Application Services

* 1. Amazon SQS: Amazon Simple Queue Service (Amazon SQS) is a messaging queue service that handles message or workflows between other components in a system.
  2. Amazon SWF: Amazon Simple Workflow Service (Amazon SWF) makes it easy to build applications that coordinate work across distributed components. In Amazon SWF, a task represents a logical unit of work that is performed by a component of your application. Coordinating tasks across the application involves managing inter task dependencies, scheduling, and concurrency in accordance with the logical flow of the application. Amazon SWF gives you full control over implementing tasks and coordinating them without worrying about underlying complexities such as tracking their progress and maintaining their state.
  3. Amazon AppStream: The Amazon AppStream web service deploys your application on Amazon Web Services (AWS) infrastructure and streams input and output between your application and devices such as personal computers, tablets, and mobile phones. Your application's processing occurs in the cloud, so it can scale to handle vast computational loads. Devices need only display output and return user input, so the client application on the device can be lightweight in terms of file size and processing requirements.
  4. Amazon Elastic Transcoder: Amazon Elastic Transcoder lets you convert media files that you have stored in Amazon S3 into media files in the formats required by consumer playback devices. For example, you can convert large, high-quality digital media files into formats that users can play back on mobile devices, tablets, web browsers, and connected televisions.
  5. Amazon SES: Welcome to the Amazon Simple Email Service (Amazon SES) documentation. Amazon SES is an outbound-only email-sending service that provides an easy, cost-effective way for you to send email.
  6. Amazon CloudSearch: Amazon CloudSearch is a fully-managed service in the cloud that makes it easy to set up, manage, and scale a search solution for your website. Amazon CloudSearch enables you to search large collections of data such as web pages, document files, forum posts, or product information. With Amazon CloudSearch, you can quickly add search capabilities to your website without having to become a search expert or worry about hardware provisioning, setup, and maintenance.

## Administration and Security

* 1. AWS Directory Services: The AWS Directory Service is a managed service that makes it easy to connect to your existing on-premises Microsoft Active Directory, or to set up and operate a new directory in the AWS cloud, making it easy to deploy and manage Windows workloads in the AWS cloud.
  2. IAM: AWS Identity and Access Management (IAM) is a web service that enables Amazon Web Services (AWS) customers to manage users and user permissions in AWS. The service is targeted at organizations with multiple users or systems in the cloud that use AWS products such as Amazon EC2, Amazon SimpleDB, and the AWS Management Console. With IAM, you can centrally manage users, security credentials such as access keys, and permissions that control which AWS resources users can access.
  3. AWS CloudTrail: With AWS CloudTrail, you can monitor your AWS deployments in the cloud by getting a history of AWS API calls for your account, including API calls made via the AWS Management Console, the AWS SDKs, the command line tools, and higher-level AWS services. You can also identify which users and accounts called AWS APIs for services that support CloudTrail, the source IP address the calls were made from, and when the calls occurred.
  4. AWS Config: AWS Config provides a detailed view of the resources associated with your AWS account, including how they are configured, how they are related to one another, and how the configurations and their relationships have changed over time.
  5. Amazon CloudWatch: Amazon CloudWatch is a web service that enables you to collect, view, and analyze metrics.
  6. AWS KMS: AWS Key Management Service (KMS) is an encryption and key management service scaled for the cloud. KMS keys and functionality are used by other AWS services, and you can use them to protect data in your own applications that use AWS.
  7. AWS CloudHSM: AWS CloudHSM provides secure cryptographic key storage for customers by making hardware security modules (HSMs) available in the AWS cloud.

## Deployment and Management

* 1. AWS Elastic Beanstalk: With AWS Elastic Beanstalk, you can quickly deploy and manage applications in the AWS cloud without worrying about the infrastructure that runs those applications. AWS Elastic Beanstalk reduces management complexity without restricting choice or control. You simply upload your application, and AWS Elastic Beanstalk automatically handles the details of capacity provisioning, load balancing, scaling, and application health monitoring.
  2. AWS OpsWorks: AWS OpsWorks provides a simple and flexible way to create and manage stacks and applications. With AWS OpsWorks, you can provision AWS resources, manage their configuration, deploy applications to those resources, and monitor their health.
  3. AWS CloudFormation: AWS CloudFormation enables you to create and provision AWS infrastructure deployments predictably and repeatedly. It helps you leverage AWS products such as Amazon EC2, Amazon Elastic Block Store, Amazon SNS, Elastic Load Balancing, and Auto Scaling to build highly reliable, highly scalable, cost-effective applications in the cloud without worrying about creating and configuring the underlying AWS infrastructure. AWS CloudFormation enables you to use a template file to create and delete a collection of resources together as a single unit (a stack).
  4. AWS CodeDeploy: AWS CodeDeploy is a deployment service that enables developers to automate the deployment of applications to instances and to update the applications as required.

## Enterprise Application

* 1. Amazon WorkSpaces: Amazon WorkSpaces offers you an easy way to provide a cloud-based desktop experience to your end-users. You simply select from a choice of bundles that offer a range of different amounts of CPU, memory, storage, and a choice of applications. Users can connect from a PC, Mac desktop computer, iPad, Kindle, or Android tablet.
  2. Amazon WAM: Amazon WorkSpaces Application Manager (Amazon WAM) offers a fast, flexible, and secure way for you to deploy and manage applications for Amazon WorkSpaces.
  3. Amazon WorkDocs: Amazon WorkDocs is a fully managed, secure enterprise storage and sharing service with strong administrative controls and feedback capabilities that improve user productivity.
  4. Amazon WorkMail: Amazon WorkMail is a managed email and calendaring service that offers strong security controls and support for existing desktop and mobile clients.

## Analytics

* 1. Amazon EMR: Amazon Elastic Map Reduce (Amazon EMR) is a web service that makes it easy to process large amounts of data efficiently. Amazon EMR uses Hadoop processing combined with several AWS products to do such tasks as web indexing, data mining, log file analysis, machine learning, scientific simulation, and data warehousing.
  2. Amazon Kinesis: Amazon Kinesis is a managed service that scales elastically for real-time processing of streaming data at a massive scale. The service collects large streams of data records that can then be consumed in real time by multiple data-processing applications that can be run on Amazon EC2 instances.
  3. Amazon Data Pipeline: AWS Data Pipeline is a web service that you can use to automate the movement and transformation of data. With AWS Data Pipeline, you can define data-driven workflows, so that tasks can be dependent on the successful completion of previous tasks.
  4. Amazon Machine Learning: Amazon Machine Learning is a service that makes it easy for developers to build smart applications, including applications for fraud detection, demand forecasting, targeted marketing, and click prediction. The powerful algorithms of Amazon Machine Learning create machine learning (ML) models by finding patterns in your existing data. The service uses these models to process new data and generate predictions for your application.

## Mobile Services

1. Amazon Cognito: Amazon Cognito makes it easy to save user data, app preferences, and game state in the AWS cloud.
2. Amazon Mobile Analytics: Amazon Mobile Analytics is a service for collecting, visualizing, and understanding app usage data at scale. The service is built to scale with your business, allowing you to collect and process billions of events per day from many millions of users. Simply add the AWS Mobile SDK in your iOS and Android/Fire OS apps, or use the Amazon Mobile Analytics REST API, and start accessing your Amazon Mobile Analytics Reports to learn about how your app is being used.
3. Amazon SNS: Amazon Simple Notification Service (Amazon SNS) is a web service that enables applications, end-users, and devices to instantly send and receive notifications from the cloud.
4. Amazon Mobile SDK for Android: The AWS Mobile SDK for Android provides libraries, code samples, and documentation for developers to build connected mobile applications using AWS.
5. Amazon Mobile SDK for iOS: The AWS Mobile SDK for iOS provides a library, code samples, and documentation for developers to build connected mobile applications using AWS.
6. Amazon Mobile SDK for Unity: The AWS Mobile SDK for Unity contains a set of .NET classes that enables games written with Unity to utilize AWS services. The AWS Unity Plug-in also contains sample code that illustrates how to call AWS services from a Unity game. The AWS Mobile SDK for Unity is compatible with Unity version 4.0 and greater.