Here’s a list of popular AWS services across various categories:

**Compute**

1. **Amazon EC2** (Elastic Compute Cloud) - Scalable virtual servers.
2. **AWS Lambda** - Serverless compute service.
3. **Amazon ECS** (Elastic Container Service) - Container orchestration service.
4. **Amazon EKS** (Elastic Kubernetes Service) - Managed Kubernetes service.
5. **AWS Fargate** - Serverless compute for containers.
6. **AWS Elastic Beanstalk** - Managed platform for web apps.

**Storage**

1. **Amazon S3** (Simple Storage Service) - Scalable object storage.
2. **Amazon EBS** (Elastic Block Store) - Persistent block storage for EC2.
3. **Amazon EFS** (Elastic File System) - Managed file storage for Linux.
4. **AWS Backup** - Centralized backup service.
5. **AWS Snowball** - Data transfer appliance.

**Database**

1. **Amazon RDS** (Relational Database Service) - Managed relational databases. (e.g., MySQL, PostgreSQL, MariaDB, Oracle, SQL Server).
2. **Amazon DynamoDB** - NoSQL database service.
3. **Amazon Aurora** - High-performance relational database.
4. **Amazon Redshift** - Data warehousing service.
5. **Amazon ElastiCache** - Managed in-memory data store (supports Redis and Memcached).
6. **DocumentDB**: Managed document database service compatible with MongoDB.

**Networking and Content Delivery**

1. **Amazon VPC** (Virtual Private Cloud) - Isolated cloud networks.
2. **AWS CloudFront** - Content delivery network (CDN).
3. **AWS Direct Connect** - Private network connection to AWS.
4. **Elastic Load Balancing** - Automatic traffic distribution.
5. **Amazon Route 53** - Scalable domain name system (DNS).

**Machine Learning**

1. **Amazon SageMaker** - Machine learning model building and deployment.
2. **AWS DeepLens** - AI-enabled camera.
3. **Amazon Comprehend** - Natural language processing (NLP).
4. **Amazon Rekognition** - Image and video analysis.
5. **Amazon Textract** - Text extraction from scanned documents.

**Analytics**

1. **Amazon EMR** (Elastic MapReduce) - Managed big data frameworks like Hadoop(raw unprocessed data) , pySpark, sqoop, hbase etc. Its a managed cluster and allows to scale by adding and removing nodes to your cluster. It runs on EC2 under the hood. We need to add steps in EMR cluster which pyspark scripts we wrote .
2. **AWS Glue** - ETL (Extract, Transform, Load) service for data preparation. Create crawler from data catalog then add datasource like S3 bucket location, then add database where the data is loaded in the tables, then start crawler to load the data.
3. **Amazon Athena** - Serverless query service for analyzing data in S3 using SQL. supports advanced sql, windows funstions and arrays. Very easy for non technical folks and BI Analyst folks.
4. **Amazon Kinesis** - Real-time data streaming.
5. **Amazon QuickSight** - Business intelligence (BI) service.

**Developer Tools**

1. **AWS CodePipeline** - Continuous integration and delivery (CI/CD).
2. **AWS CodeBuild** - Build and test applications.
3. **AWS CodeDeploy** - Automated application deployment.
4. **AWS Cloud9** - Cloud-based IDE.
5. **AWS X-Ray** - Debugging and tracing applications.

**Security and Identity**

1. **AWS IAM** (Identity and Access Management) - Access control.
2. **AWS KMS** (Key Management Service) - Encryption key management.
3. **AWS Shield** - DDoS protection.
4. **AWS WAF** (Web Application Firewall) - Application security.
5. **Amazon Macie** - Data security and privacy service.

**Management and Governance**

1. **AWS CloudFormation** - Infrastructure as code (IaC).
2. **AWS CloudTrail** - Track user activity and API usage.
3. **Amazon CloudWatch** - Monitoring and logging.
4. **AWS Config** - Resource configuration tracking.
5. **AWS Organizations** - Multi-account management.

**IoT**

1. **AWS IoT Core** - Connect IoT devices to the cloud.
2. **AWS Greengrass** - Edge computing for IoT.
3. **AWS IoT Analytics** - Analytics for IoT data.
4. **AWS IoT Events** - Detect and respond to events from IoT devices.

**Migration and Transfer**

1. **AWS Migration Hub** - Centralized migration tracking.
2. **AWS DataSync** - Automated data transfer.
3. **AWS Snow Family** - Data transport appliances.
4. **AWS Application Migration Service** - Simplified app migration.

**AWS Eventbridge: for workflow scheduling (Based of cron) and automation.**

**message brokers: Amazon Simple Notification Service (SNS) and Amazon Simple Queue Service (SQS) are both message brokers in AWS that allow for asynchronous communication between components**