

Here's a list of **AWS services** categorized by their use cases:

Compute Services

1. **EC2 (Elastic Compute Cloud)** – Virtual servers.
2. **Lambda** – Serverless computing.
3. **Elastic Beanstalk** – App deployment automation.
4. **ECS (Elastic Container Service)** – Container orchestration.
5. **EKS (Elastic Kubernetes Service)** – Managed Kubernetes.
6. **Lightsail** – Easy-to-use VPS.
7. **Batch** – Managed batch processing.
8. **Elastic Inference** – GPU-powered inference.
9. **Outposts** – On-premises AWS infrastructure.
10. **Wavelength** – Edge computing.

Storage Services

1. **S3 (Simple Storage Service)** – Object storage.
2. **EBS (Elastic Block Store)** – Block storage for EC2.
3. **EFS (Elastic File System)** – Scalable file storage.
4. **Glacier** – Cold storage for backups.
5. **FSx (Windows File Server)** – Managed Windows file system.
6. **Storage Gateway** – Hybrid cloud storage.
7. **Backup** – Centralized backup management.

Database Services

1. **RDS (Relational Database Service)** – Managed relational databases.
2. **DynamoDB** – NoSQL database.
3. **Aurora** – High-performance relational database.
4. **ElastiCache** – In-memory caching.
5. **Neptune** – Graph database service.
6. **DocumentDB** – Managed MongoDB service.
7. **Redshift** – Data warehousing.
8. **Keyspaces** – Managed Cassandra.
9. **Timestream** – Time-series database.

Networking & Delivery

1. **VPC (Virtual Private Cloud)** – Virtual network for AWS.
2. **Route 53** – DNS service.
3. **CloudFront** – Content delivery network (CDN).
4. **API Gateway** – API hosting.
5. **Direct Connect** – Dedicated network connection.
6. **Global Accelerator** – Improve application availability and performance.
7. **Elastic Load Balancing** – Load balancing across multiple resources.
8. **Transit Gateway** – Network hub to connect VPCs.
9. **PrivateLink** – Private access to services.

Security Services

1. **IAM (Identity and Access Management)** – User and permissions management.

2. **Cognito** – User authentication and identity.
3. **KMS (Key Management Service)** – Managed encryption keys.
4. **Secrets Manager** – Manage secrets securely.
5. **Shield** – DDoS protection.
6. **WAF (Web Application Firewall)** – Protect your web apps.
7. **GuardDuty** – Threat detection.
8. **Inspector** – Security assessments.
9. **Macie** – Data security for sensitive information.
10. **CloudHSM** – Hardware security module (HSM).
11. **Firewall Manager** – Centralized firewall control.



Monitoring & Dev Tools

1. **CloudWatch** – Metrics and monitoring.
2. **CloudTrail** – Activity logging.
3. **AWS Config** – Configuration monitoring.
4. **X-Ray** – Debugging and tracing.
5. **CodePipeline** – CI/CD automation.
6. **CodeBuild** – Code compilation and build automation.
7. **CodeDeploy** – Deployment automation.
8. **CodeCommit** – Git-based version control.
9. **Cloud9** – Cloud-based IDE.
10. **Elastic Beanstalk Monitoring** – Monitor app health.

11. **CloudFormation** – Infrastructure as code (IaC).



Machine Learning Services

1. **SageMaker** – Managed ML service.
2. **Comprehend** – Natural language processing (NLP).
3. **Rekognition** – Image and video analysis.
4. **Lex** – Build chatbots.
5. **Polly** – Text-to-speech.
6. **Translate** – Language translation.
7. **Textract** – Text extraction from documents.
8. **Personalize** – Personalization engine.
9. **Forecast** – Time-series forecasting.
10. **Deep Learning AMIs** – Pre-built deep learning environments.
11. **Inferentia** – Custom chips for inference.



Analytics Services

1. **Athena** – Query data directly from S3.
2. **Kinesis** – Real-time data streaming.
3. **QuickSight** – BI and analytics.
4. **Glue** – Data integration and ETL.
5. **EMR (Elastic MapReduce)** – Big data processing.
6. **Redshift** – Data warehouse.
7. **Elasticsearch Service** – Managed search engine.

8. **Data Pipeline** – Data workflows.
9. **Lake Formation** – Data lake management.
10. **DataSync** – Fast data transfer.

Game Development Services

1. **GameLift** – Managed game server hosting.
2. **Lumberyard** – Game development engine.

Internet of Things (IoT)

1. **IoT Core** – Internet of Things management.
2. **IoT Device Management** – Securely manage IoT devices.
3. **IoT Greengrass** – Local processing for IoT devices.
4. **IoT Events** – Real-time IoT event detection.
5. **IoT Analytics** – IoT data processing.
6. **IoT SiteWise** – Monitor and optimize industrial equipment.
7. **IoT Things Graph** – Build IoT workflows.

Developer Tools

1. **Cloud9** – Cloud-based development environment.
2. **CodeCommit** – Git-based version control.
3. **CodeDeploy** – Deployment automation.
4. **CodePipeline** – Continuous integration/continuous delivery.
5. **X-Ray** – Debugging and analysis.

6. **AWS SAM (Serverless Application Model)** – Serverless architecture management.
7. **CloudFormation** – Infrastructure as code (IaC).

Business Applications

1. **Chime** – Communication service.
2. **WorkDocs** – Document management and collaboration.
3. **WorkSpaces** – Virtual desktops.
4. **Honeycode** – Build apps without coding.

Customer Engagement

1. **Amazon Connect** – Cloud-based contact center.
2. **Pinpoint** – Marketing communications.
3. **SES (Simple Email Service)** – Email sending service.

Migration & Transfer

1. **Database Migration Service** – Database migration to AWS.
 2. **Server Migration Service** – Server migration automation.
 3. **Application Discovery Service** – Discover on-premises apps.
 4. **DataSync** – Data transfer service.
 5. **Snowball** – Physical data transport.
 6. **Migration Hub** – Monitor migration progress.
 7. **Transfer Family** – Managed file transfer service.
-

This covers the **major AWS services**! There are more specialized services under each category depending on the use case, but this list should give you a solid overview.

Let me know if you'd like more details or if you'd like this in a PDF!