

AWS Services Cheat Sheet

Compiled by: **Atul V Mistry**
<https://www.linkedin.com/in/atul-v-mistry/>

Analytics

Amazon Athena:

Query data in S3 using SQL

Amazon CloudSearch:

Managed search service

Amazon EMR:

Hosted Hadoop framework

Amazon Elasticsearch:

Run and scale Elasticsearch clusters

Amazon Kinesis:

Analyze real-time video and data streams

Amazon Managed Streaming for Kafka:

Fully managed Apache Kafka service

Amazon Redshift:

Fast, simple, cost-effective data warehousing

Amazon QuickSight:

Fast business analytics service

AWS Data Pipeline:

Orchestration service for periodic, data-driven workflows

AWS Glue:

Prepare and load data

AWS Lake Formation:

Build a secure data lake in days

Compute

Amazon Elastic Compute Cloud(EC2):

Virtual servers in the cloud

Application Integration

AWS Step Functions:

Coordination for distributed applications

Amazon MQ:

Managed message broker for ActiveMQ

Amazon Simple Notification Service (SNS):

Managed message topics for pub/sub

Amazon Simple Queue Service (SQS):

Managed message queues

AWS AppSync:

Power your apps with the right data from many sources, at scale

AWS Cost Management

AWS Cost Explorer:

Analyze your AWS cost and usage

AWS Budgets:

Set custom cost and usage budgets

AWS Cost and Usage Report:

Access comprehensive cost and usage information

Reserved Instance Reporting:

Dive deeper into your reserved instances (RIs)

Customer Engagement

Amazon Connect:

Cloud-based contact center service

Amazon Pinpoint:

Personalized user engagement across channels

AR & VR

Amazon Sumerian:

Build and run AR and VR applications

Blockchain

Amazon Managed Blockchain:

Create and manage scalable blockchain networks

Amazon Quantum Ledger Database (QLDB):

Fully managed ledger database

Business Applications

Alexa for Business:

Empower your organization with Alexa

Amazon Chime:

Frustration-free meetings, video calls, and chat

Amazon WorkMail:

Secure email and calendaring

Database

Amazon Aurora:

High performance managed relational database

Amazon DocumentDB (with MongoDB compatibility):

Fully managed document database

Amazon DynamoDB:

Managed NoSQL database

Amazon ElastiCache:

In-memory caching service

Amazon Neptune:

Amazon EC2 Auto Scaling:
Scale compute capacity to meet demand
Amazon EC2 Container Registry:
Store and retrieve docker images
Amazon Elastic Container Service(ECS):
Run and manage docker containers
Amazon Elastic Container Service for Kubernetes:
Run managed Kubernetes on AWS
Amazon Lightsail:
Launch and manage virtual private servers
AWS Batch:
Run batch jobs at any scale
AWS Elastic Beanstalk:
Run and manage web apps
AWS Fargate:
Run containers without managing servers or clusters
AWS Lambda:
Run code without thinking about servers
AWS Outposts:
Run AWS infrastructure on-premises
AWS Serverless Application Repository:
Discover, deploy, and publish serverless applications
VMware Cloud on AWS:
Build a hybrid cloud without custom hardware
End User Computing
Amazon WorkSpaces:
Virtual desktops in the cloud
Amazon AppStream 2.0:
Stream desktop applications securely to a browser
Amazon WorkDocs:
Secure enterprise document storage and sharing
Amazon WorkLink:

Amazon Simple Email Service (SES):
Email sending and receiving
Developer Tools
AWS CodeStar:
Develop and deploy AWS applications
Amazon Corretto:
Production-ready distribution of OpenJDK
AWS Cloud9:
Write, run, and debug code on a cloud IDE
AWS CodeBuild:
Build and test code
AWS CodeCommit:
Store code in private Git repositories
AWS CodeDeploy:
Automate code deployments
AWS CodePipeline:
Release software using continuous delivery
AWS Command Line Interface:
Unified tool to manage AWS services
AWS Tools and SDKs:
Tools and SDKs for AWS
AWS X-Ray:
Analyze and debug your applications

Machine Learning
Amazon SageMaker:
Build, train, and deploy machine learning models at scale
Amazon Comprehend:
Discover insights and relationships in text
Amazon Elastic Inference:
Deep learning inference acceleration

Fully managed graph database service
Amazon Quantum Ledger Database (QLDB):
Fully managed ledger database
Amazon RDS:
Managed relational database service for MySQL, PostgreSQL, Oracle, SQL Server, and MariaDB
Amazon RDS on VMware:
Automate on-premises database management
Amazon Redshift:
Fast, simple, cost-effective data warehousing
Amazon Timestream:
Fully managed time series database
AWS Database Migration Service:
Migrate databases with minimal downtime
Management & Governance
Amazon CloudWatch:
Monitor resources and applications
AWS Auto Scaling:
Scale multiple resources to meet demand
AWS CloudFormation:
Create and manage resources with templates
AWS CloudTrail:
Track user activity and API usage
AWS Command Line Interface:
Unified tool to manage AWS services
AWS Config:
Track resources inventory and changes
AWS Control Tower:
Set up and govern a secure, compliant multi-account environment
AWS Console Mobile Application:
Access resources on the go

Enable mobile access to internal websites

Game Tech

Amazon GameLift:

Simple, fast, cost-effective dedicated game server hosting

Amazon Lumberyard:

A free cross-platform 3D game engine, with Full Source, integrated with AWS and Twitch

Internet of Things

Amazon FreeRTOS:

IoT operating system for microcontrollers

AWS IoT 1-Click:

One click creation of an AWS Lambda trigger

AWS IoT Analytics:

Analytics for IoT devices

AWS IoT Button:

Cloud programmable dash button

AWS IoT Core:

Connect devices to the cloud

AWS IoT Device Defender:

Security management for IoT devices

AWS IoT Device Management:

Onboard, organize, and remotely manage IoT devices

AWS IoT Events:

IoT event detection and response

AWS IoT Greengrass:

Local compute, messaging, and sync for devices

AWS IoT SiteWise:

IoT data collector and interpreter

AWS IoT Things Graph:

Easily connect devices and web services

Amazon Forecast:

Increase forecast accuracy using machine learning

Amazon Lex:

Build voice and text chatbots

Amazon Personalize:

Build real-time recommendations into your applications

Amazon Polly:

Turn text into life-like speech

Amazon Rekognition:

Analyze image and video

Amazon SageMaker Ground Truth:

Build accurate ML training datasets

Amazon Textract:

Extract text and data from documents

Amazon Translate:

Natural and fluent language translation

Amazon Transcribe:

Automatic speech recognition

AWS Deep Learning AMIs:

Deep learning on Amazon EC2

AWS Deep Learning Containers:

Docker images for deep learning

AWS DeepLens:

Deep learning enabled video camera

AWS DeepRacer:

Autonomous 1/18th scale race car, driven by ML

AWS Inferentia:

Machine learning inference chip

Apache MXNet on AWS:

Scalable, open-source deep learning framework

TensorFlow on AWS:

Open-source machine intelligence library

AWS License Manager:

Track, manage, and control licenses

AWS Management Console:

Web-based user interface

AWS Managed Services:

Infrastructure operations management for AWS

AWS OpsWorks:

Automate operations with Chef and Puppet

AWS Organizations:

Central governance and management across AWS accounts

AWS Personal Health Dashboard:

Personalized view of AWS service health

AWS Service Catalog:

Create and use standardized products

AWS Systems Manager:

Gain operational insights and take action

AWS Trusted Advisor:

Optimize performance and security

AWS Well-Architected Tool:

Review and improve your workloads

Mobile

AWS Amplify:

Build and deploy mobile and web applications

Amazon API Gateway:

Build, deploy, and manage API's

Amazon Pinpoint:

Personalized user engagement across channels

AWS AppSync:

Power your apps with the right data from many sources, at scale

AWS Device Farm:

Media Services
Amazon Elastic Transcoder:
Easy-to-use scalable media transcoding
Amazon Kinesis Video Streams:
Process and analyze video streams
AWS Elemental MediaConnect:
Reliable and secure live video transport
AWS Elemental MediaConvert:
Convert file-based video content
AWS Elemental MediaLive:
Convert live video content
AWS Elemental MediaPackage:
Video origination and packaging
AWS Elemental MediaStore:
Media storage and simple http origin
AWS Elemental MediaTailor:
Video personalization and monetization
AWS Elemental Appliances & Software:
On-premises media solutions

Networking & Content Delivery
Amazon VPC:
Isolated cloud resources
Amazon API Gateway:
Build, deploy, and manage APIs
Amazon CloudFront:
Global content delivery network
Amazon Route 53:
Scalable domain name system (DNS)
AWS App Mesh:
Monitor and control microservices
AWS Cloud Map:

Migration & Transfer
AWS Migration Hub:
Track migrations from a single place
AWS Application Discovery Service:
Discover on-premises applications to streamline migration
AWS Database Migration Service:
Migrate databases with minimal downtime
AWS DataSync:
Simple, fast, online data transfer
AWS Server Migration Service:
Migrate on-premises servers to AWS
AWS Snow Family:
Physical devices to migrate data into and out of AWS
AWS Transfer for SFTP:
Fully managed SFTP service
CloudEndure Migration:
Automate your mass migration to the AWS cloud

Storage
Amazon Simple Storage Service (S3):
Scalable storage in the cloud
Amazon Elastic Block Store (EBS):
EC2 block storage volumes
Amazon Elastic File System (EFS):
Fully managed file system for EC2
Amazon FSx for Lustre:
High-performance file system integrated with S3
Amazon FSx for Windows File Server:
Fully managed Windows native file system
Amazon S3 Glacier:
Low-cost archive storage in the cloud
AWS Backup:

Test Android, iOS, and web apps on real devices in the AWS cloud

Security, Identity, & Compliance
AWS Identity and Access Management (IAM):
Manage user access and encryption keys
Amazon Cloud Directory:
Create flexible cloud-native directories
Amazon Cognito:
Identity management for your apps
Amazon GuardDuty:
Managed threat detection service
Amazon Inspector:
Analyze application security
Amazon Macie:
Discover, classify, and protect your data
AWS Artifact:
On-demand access to AWS' compliance reports
AWS Certificate Manager:
Provision, manage, and deploy SSL/TLS certificates
AWS CloudHSM:
Hardware-based key storage for regulatory compliance
AWS Directory Service:
Host and manage active directory
AWS Firewall Manager:
Central management of firewall rules
AWS Key Management Service:
Managed creation and control of encryption keys
AWS Resource Access Manager:
Simple, secure service to share AWS resources
AWS Secrets Manager:
Rotate, manage, and retrieve secrets
AWS Security Hub:

Service discovery for cloud resources

AWS Direct Connect:

Dedicated network connection to AWS

AWS Global Accelerator:

Improve application availability and performance

AWS PrivateLink:

Securely access services hosted on AWS

AWS Transit Gateway:

Easily scale VPC and account connections

AWS VPN:

Securely access your network resources

Elastic Load Balancing (ELB):

Distribute incoming traffic across multiple targets

Centralized backup across AWS services

AWS Snow Family:

Physical devices to migrate data into and out of AWS

AWS Storage Gateway:

Hybrid storage integration

Robotics

AWS RoboMaker:

Develop, test, and deploy robotics applications

Satellite

AWS Ground Station:

Fully managed ground station as a service

Unified security and compliance center

AWS Shield:

DDoS protection

AWS Single Sign-On:

Cloud single sign-on (SSO) service

AWS WAF:

Filter malicious web traffic

AWS Services Cheat Sheet

Compiled by: **Atul V Mistry**
<https://www.linkedin.com/in/atul-v-mistry/>