# **AMAZON WEB SERVICES** CHEAT SHEET

## AWS Basics

#### AWS

Amazon Web Services (AWS), it is a collection of various cloud to use and cost effective solutions

#### Cloud Computing

It is an internet-based computing service in which various remote servers are networked to allow centralized data storage and online access to computer services and resources

Types of cloud: There are three types of clouds

- Public cloud: The resources and services provided by the thirdparty service providers are available to the customers via interne
- Private cloud: Here the resources and services are managed by the organizations or by the third party only for the customers organization
- Hybrid cloud: It is a combination of both Public and Private Cloud. The decision to run the services on public or private depends on the parameters like sensitivity of the data and applications, industry certifications and required standards etc.

- ECz: It is a Virtual Server that provides resizable compute . capacity on cloud.

  Elastic Beanstalk: It is an application container
- used for deploying and managing containers.

  Lambda: It is a computing service that runs the code in response to events manages the computing resources
- er Service: It allows us to easily run and manage Docker containers across a cluster of
- VPC: Amazon Virtual Private Cloud (VPC) is a Virtual data center in AWS account cons set of isolated resources

  Direct Connect: It is used to establish a dedicated
- network connection from the host network to AWS without an internet connection

  Route 53: It is a scalable and highly available
- Domain Name System (DNS) and registration service and 53 is the port on which the service runs
- S3: It refers to Simple Storage Service. Allows storage of data objects
- nt: It defines a Content Delivery Network Glacler: It is a low cost storage service which provides secure and durable storage for long term
- data archiving and backup arch: It is a completely managed search service for websites and apps

- Auto-Scaling: It is a service which is used to launch or terminate EC2 instances based on user-defined policies
- Elastic Load-Balancing: It automatically distributes incoming application traffic across multiple instances at multiple availability zone. FFS/Elastic File Storage): It is a file storage service used in EC2 instances
- wball: It is used for moving large amount of data into and out of the AWS using secure appliances for transport
- Storage Gateway: It is used for securely integrating on-premises IT environments with cloud storage for backup recovery
- EMR: It is an Amazon Elastic MapReduce that helps in performing big data tasks

  Data Pipeline: It helps in moving data from one
- arch: It is a managed service that helps in deploying, operating and scale Elasticsearch.

service to other

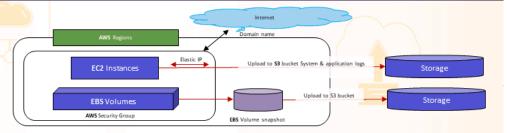
- Kinesis: It makes it easy to work with real-time streaming data in the AWS cloud
- arning: It is a service that enables us
- to easily build smart apps Quick Sight: It is a Business Intelligence service.

- RDS: Relational Database Service (RDS) allows storage of data objects as a part of relational
- database. namoDB: It is a scalable NoSQL data store that is used to manage distributed replicas of
  - the data for high availability Elasticache: It improves application performance by allowing you to retrieve
- information from an in-memory caching system Redshift: It is a fast, fully managed datawarehousing service
- DMS: Data Migration Service (DMS) it helps in migrating databases to the cloud easily and securely.
- IAM: It helps in configuring security for all the services.
- Directory Service: It is used to provide managed directory in the cloud
- ector: It enables us to analyze the behavior of the applications you run on AWS
- KMS: It is a Key management Service
- WAF: It is an Web application Firewall service,
- which protects web application from attack
- Cloud HSM: It is an Hardware Security Module API Gateway: It is used to create, maintain,
- monitor and secure API's

### Basic CLI Commands

AWS Services

- rm <filename>: It removes the specified file from the current directory
- cat /proc/mounts: It displays a list of mounted drives
  rpm-ql '<package names': It is used to obtain a list of utilities contained within a package.
- sudo yum update : Performs required AWS updates
- sudo chmod <options>: It changes the access mode for the current directory
- sudo mkdir <directory name>: Used to create a new directory to hold files
- sudo rmdir <directory n ne>: Removes the specified o
- sudo reboot: Reboots the remove AWS system so that
- sudo yum groupinstall "<group package
- sudo yum search '<package name>': Package search sudo yum –y install <service or feature>: Installs requi



It is a virtual server for running applications on AWS

- General Instances: It is used for applications that requires a balance of performance and cost
- Compute Instances: It is used for applications that requires a lot of processing from the CPU
- ory Instances: It is used for applications that need a lot of
- es: It is used for applications with a data set that occupies a lot of space
- GPU instances: It is used for applications requiring heavy graphics rendering