Networking Services

VPC	Amazon Virtual Private Cloud (VPC) is a virtual data center in AWS consisting of a 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 domain name registration service, and 53 is the port on which this service runs

Computing Services

EC2	It is a virtual server that provides resizable compute capacity on the cloud
Elastic Beanstalk	It is an application container used for deploying and managing containers. It creates an environment for working with web applications
Lambda	It is a computing service that runs the code in response to events and automatically manages the computing resources
EC2 Container Service	It allows us to easily run and manage Docker containers across a cluster of EC2 instances

Storage Services

S3	It refers to Simple Storage Service and allows the storage of data objects of any sort and flat files in the cloud. It is secure, scalable, and durable
CloudFront	CloudFront defines a Content Delivery Network. It provides a way to distribute content to end-users with low latency and high data-transfer speeds
Glacier	It is a low-cost storage service that provides secure and durable storage for long-term data archiving and backup
EFS (Elastic File Storage)	It is a file storage service used in EC2 instances and connects to multiple EC2 instances
Snowball	It is used for moving large amounts of data into/out of AWS using secure appliances, i.e., it provides the data archiving functionality for the data that no longer needs to be accessed actively

Storage Services (cont)

Storage Gateway	AWS Storage Gateway is used for securely integrating on-premises IT environments with cloud storage for backup and disaster recovery
RDS (Relational Database Service)	It allows the storage of data objects as part of the relational database. It makes it easy to set up, operate, and scale familiar relational databases in the cloud
DynamoDB	It is a scalable NoSQL data store that is used to manage distributed replicas of data for high availability
Elasti-Cache	It improves application performance by allowing us to retrieve information from an in-memory caching system. It is a way of caching databases in the cloud
Redshift	It is a fast, fully managed data warehousing service, which makes it cost-effective to analyze all data using the existing Business Intelligence tools
DMS (Data Migration Service)	It helps in migrating databases to the cloud easily and securely. It can also be used for converting databases

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AWS Services Cheat Sheet

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Analytics

Amazon EMR	Amazon Elastic MapReduce helps in performing big data tasks such as web indexing, data mining, and log file analysis
Data Pipeline	It helps in moving data from one service to another. It is a service used for periodic, data-driven workflows
AWS Elasti-csearch	It is a managed service that helps in deploying, operating, and scaling Elasticsearch
Kinesis	It makes it easy to work with real-time streaming data in the AWS cloud
AWS Machine Learning	It is a service that enables us to easily build smart applic-ations
QuickSight	AWS QuickSight is a cloud--assisted Business Intelligence service that helps in deriving insights from data easily

Security and Identity

IAM	AWS IAM helps in configuring security for all the services. It is used to ensure that our other services remain safe and inaccessible to others
Directory Service	AWS Directory Service is used to provide a managed directory in the cloud

Security and Identity (cont)

Inspector	Amazon inspector enables us to analyze the behaviour of the applications we run on AWS and helps in identifying potential security issues
AWS WAF (Web Applic-ation Firewall)	It protects our web application from attacks by providing web traffic filters
Cloud HSM	It is a Hardware Security Module
KMS	It is a Key Management Service

Management Tools

CloudWatch	It is used to create different metrics. It provides monitoring for resources and applications
CloudForm-ation	It helps in creating and updating a collection of related AWS resources
CloudTrial	It provides increased visibility into user activity by recording API calls made on an account
AWS OpsWorks:	It is a DevOps platform for managing applications of any size or complexity on the AWS cloud
Config	It gives an inventory of AWS resources, lets us audit the AWS resource configuration history, and notifies the changes

Management Tools (cont)

Service Catalog	It allows organizations to manage approved catalogs of IT resources
Trusted Advisor	It inspects the AWS environment and finds opportunities to save money and improve system performance

Application Services

API Gateway	AWS API Gateway is used to create, maintain, monitor, and secure APIs
AppStream	It is used to stream resour-ce-intensive applications and games from the cloud to multiple users
CloudS-earch	It is a completely managed search service for websites and apps
Elastic Transcoder	It is used to convert media files in the cloud easily at a lower cost
SES (Simple Email Service)	It is used to send and receive emails
SQS (Simple Queue Service)	It is a reliable, hosted queue for storing messages
SWF (Simple Workflow Service)	It is used to coordinate all the processing steps with an application

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