6 CORE SERVICES FROM AWS, EVERY CLOUD SHOULD BE AWARE OF TO DESIGN A HIGH-AVAILABLE AND RESILIENT SOLUTION

Core Service	What is this Service all about?	How this service can be used?
1. Amazon Elastic Compute Cloud (Amazon EC2)	Amazon EC2 is a web service that provides secure, resizable compute capacity in the cloud. It is designed to scale up or down as needed, and it offers a broad range of instance types to choose from, so you can find the right one for your workload.	Amazon EC2 can be used to deploy your application in multiple Availability Zones (AZs). This will help to protect your application from outages in a single AZ.
2. Amazon Elastic Block Store (Amazon EBS)	Amazon EBS is a block storage service that provides persistent storage for Amazon EC2 instances. It is designed to be highly available and reliable, and it offers a variety of features to help you protect your data, such as snapshots and backups.	Amazon EBS can be used to store persistent data for your Amazon EC2 instances. Amazon EBS automatically replicates data across multiple AZs, so your data will be safe even if one AZ goes down.
3. Amazon Simple Storage Service (Amazon S3)	Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance. It is designed to store and retrieve any amount of data from anywhere on the web.	Amazon S3 can be used to store static content, such as images and CSS files. Amazon S3 is highly durable and available, so your content will be available to users even if your application servers go down.
4. Amazon Relational Database Service (Amazon RDS)	Amazon RDS is a managed database service that makes it easy to set up, operate, and scale a relational database in the cloud. It supports a variety of database engines, including MySQL, PostgreSQL, Oracle, SQL Server, and MariaDB.	Amazon RDS can be used to deploy your database in a multi-AZ configuration. This will help to protect your database from outages in a single AZ.
5. Amazon Elastic Load Balancing (Amazon ELB)	Amazon ELB distributes incoming application traffic across multiple Amazon EC2 instances. It helps to improve the availability and scalability of your applications, and it can also be used to implement health checks to monitor the health of your instances.	Amazon ELB can be used to distribute traffic across your Amazon EC2 instances. This will help to improve the availability and scalability of your application.
6. Amazon CloudWatch	Amazon CloudWatch is a monitoring service that provides data and insights to help you monitor your AWS resources and applications. It offers a variety of features, such as alarms, dashboards, and logs, to help you identify and troubleshoot problems quickly.	Amazon CloudWatch can be used to monitor the health of your application and infrastructure. This will help you to identify and troubleshoot problems quickly.