**DE-Fellowship – Week 10**

Task#1 Date: 16-May-2023

**Amazon S3**

Amazon S3, also known as Simple Storage Service, it allows you to store and retrieve large amounts of data, such as files, backups, and application data, in a highly scalable and reliable manner.

**Amazon RDS**

Amazon RDS, which stands for Relational Database Service, it allows you to easily set up and operate relational databases like MySQL, PostgreSQL, Oracle, and SQL Server in the cloud.

**AWS Glue**

AWS Glue is like a helper that takes care of your data. It finds and organizes your data from different places, changes its format to make it easier to work with, and puts it in the right location so you can use it for analysis or other purposes. It also automates repetitive tasks and works well with big data setups.

**Amazon Redshift**

Amazon Redshift is a powerful tool that helps companies analyze large amounts of data quickly. It stores data in a way that makes it easy to find and analyze, even when dealing with huge datasets. It can handle a lot of data and perform queries on it fast.

**IAM role**

An IAM (Identity and Access Management) role is a set of permissions and policies that determine what actions and resources a specific AWS entity can access. In simple terms, an IAM role defines the level of access and capabilities that a user, service, or application has within an AWS environment.

**Crawler**

It automatically scans your databases, files, and other data sources, and collects information about the structure of your data, like the names of tables and columns. It then creates a catalog or directory that keeps track of all this information. Crawler simplifies the process of organizing and navigating your data, saving you time and effort.

**Athena**

Amazon Athena is like a search engine for your data stored in Amazon S3. You can ask it questions using SQL (a common database language) and it gives you answers right away. It doesn't need any special setup or management from you, so you can focus on finding insights from your data without the hassle of setting up databases or servers.

**QuickSight**

Amazon QuickSight is like a magic window that turns your data into colorful pictures. It connects to your data sources, like databases or files, and creates beautiful charts and graphs that show you important information. You can play around with the pictures, filter the data, and share your discoveries with others.

**Lambda**

AWS Lambda is like a little helper that runs your code whenever you need it. You don't have to worry about servers or anything technical. Just tell Lambda what code to run and when to run it, and it takes care of everything for you. It's like having your own personal assistant for running your code without any hassle.

**EC2**

EC2 is like borrowing a computer in the cloud whenever you need it. Instead of owning and maintaining your own computer, you can simply borrow a virtual computer from EC2 for as long as you need it. It's like having access to a flexible and customizable computer that you can use for your work or projects without the responsibilities of ownership.