**Concepts On Azure Data Factory(ADF):**

* It is Cloud Base ETL Tool.
* Complex and Big Data is not possible.
* Basically we analyse the source and destination data.

**Components of ADF :**

1. **Integration Runtime(IR):**This is used for data movement and transformation activities in the Azure cloud. It's fully managed by Azure and is suitable for cloud-to-cloud data movement, data transformation, and for running activities that require integration with other Azure services.

Types:

1. Azure AutoResolved IR: Whenever data is present in cloud based .

2. Self Hosted IR: Whenever Data is onpremisis(Local machines)

Using IR we are connecting sources.

**2. Linked Services**: Linked Services are a crucial component that defines the connection information needed for ADF to interact with various data stores or compute resources.

3. Dataset: Used To connect between Data.

4. Activity: Used to create Pipeline.

5. Pipelines: Combinations of One Or More Pipelines.

**Activities In Data Factory:**

**1. Copy Data:** Copy Data activity is a fundamental component used to copy data from a source to a destination. It is a versatile and commonly used activity within ADF pipelines that enables data movement and transformation between various data stores.

Azure Key Vaults:

Azure Key Vault is a service provided by Azure for securely storing and managing sensitive information such as secrets, encryption keys, and certificates. When integrated with ADF, Key Vault provides a more secure and manageable way to handle sensitive data.

**2. Data Flow:**

Here Data Transormation are Made.

And Also Most of the Operations Like Join,filter etc can be sone and the data is Transformed.

And Two are more activities is connected to become a pipeline.

**3.General Activities:**Wait,Delete,Fail,Execute Pipeline Etc.. are there.