

Question 1 : What is Azure Data Factory?

ADF is a cloud based integration service , which allows you to create data driven workflows in cloud for orchestration and automating data movement , data transformation..

we can create and schedule data driven workflows using adf also called pipeline.

that can ingest the data from various sources. it can process and transform the data using compute services

such as HDInsight Hadoop, Spark, Azure Data Lake Analytics, and Azure Machine Learning

Question 2 : Windows Azure Storage?

We have mainly 4 type of storage in azure

- i) Queue
- ii) Table
- iii) BLOBs (Binary Large Objects)
- iv) VHD (Windows Azure Drives)

Question 3 : What is the integration runtime?

IR is a compute infrastructure that ADF use to provide various data integration capabilities across various network

we have 3 types integration run time

i) Azure integration runtime - we can copy the data between cloud data stores and dispatch it to compute services for transformation.

ii) Self hosted integration runtime - as the name signifies that we can install it on premise machine and virtual machine in a virtual network.

SHIR can run copy activity between public cloud data stores and data store in a private network

It can also dispatch transformation activities against compute resources in a private network. XXX

We use Self Hosted IR because Data factory will not be able to directly access on-premise data sources as they sit behind a firewall.

iii) Azure SSIS integration runtime

Question 4 : What is the limit on the number of integration runtimes?

There is hard code limit on the number of integration runtime instance in ADF.

but there is a limit on VM cores that integration runtime can use per subscription

Question 5 : What is blob storage in Azure?

Azure blob storage is a service which is used for storing large amount of data of different types

publicly We can use blob storage for sharing the data
or store application data privately

Common uses of blob storage.
i) storing files ,like audio vedio
ii) storing data as a backup, data disaster
recovery,
iii) data analytics

Question 6 : What are the steps for creating ETL process in Azure Data Factory?
While to trying to extract data from any sources
such as sql server, if something has to be processed.
then it will be processed and is stored in the Data
Lake Store.

Steps for Creating ETL
Create a Linked Service for source data
store which is SQL Server Database
Create a Linked Service for destination
data store which is Azure Data Lake Store
Create a dataset for Data Saving
Create the pipeline and add copy activity
Schedule the pipeline by adding a trigger

Question 7 : What are the top-level concepts of Azure Data Factory?
Pipeline - It acts as a carrier in which we have
various processes taking place.
activity - Activities represent the processing
steps in a pipeline.
datasets - it is data structure which holds our
data
linked services - These store information that is
very important when it comes to connecting an external source.

Question 8 : How can I schedule a pipeline?
You can use the
i) scheduler trigger
ii) time window trigger
to schedule a pipeline.

The trigger uses a wall-clock calendar
schedule,
which can schedule pipelines periodically
or in calendar-based recurrent patterns (for example, on Mondays at 6:00 PM and
Thursdays at 9:00 PM)

Question 9 : Can I pass parameters to a pipeline run?
Yes we can pass paramters to a pipeline run
i) Define the parameters at the pipeline
level

ii) pass argument/value as you execute the pipeline run on demand or by using a trigger

Question 10 : Can I define default values for the pipeline parameters?

You can define default values for the parameters in the pipelines.

Question 11 : Can an activity in a pipeline consume arguments that are passed to a pipeline run?

Each activity within the pipeline can consume the parameter value that's passed to the pipeline and run with the @parameter construct.

Question 12 : Can an activity output property be consumed in another activity?

An activity output can be consumed in a subsequent activity with the @activity construct

Question 13 : How do I gracefully handle null values in an activity output?

You can use the @coalesce construct in the expressions to handle the null values gracefully.

Question 14 : Which Data Factory version do I use to create data flows?

Use the Data Factory V2 version to create data flows

Question 15 : Explain the two levels of security in ADLS Gen2?

Question 16 : What is table storage in Windows Azure?

Question 17 : What is Azure Functions?

Azure functions is a solution for executing a piece of code or functions in the cloud.

we can also select the programming language we want to use.

we pay only the time we execute our code.

It supports continuous deployment and integration.

Question 18 : What is Azure HDInsight Cluster?

Azure HDInsight is a cloud service that makes easy, fast and cost effective to process massive amount of data using open source framework.

like Hadoop, Spark, Hive, LLAP, Kafka, Storm and R.

Question 19 : What is Azure Data Lake

Azure data lake is a service which is provided by Microsoft Azure to store massive amount of data for unlimited time.

Azure data lake is divided into 2 parts

i) Data Analytics - is a service that you use to run big data jobs on the data that is stored in data storage.
ii) Data storage - we can store any amount of data and unlimited time

note: - Data lake is a huge repository where you can store your data in object or named format

Question 20 : What is SQL Azure database?

SQL Azure database is just an approach to get associated with cloud services where you can store your database into the cloud.

Question 21 : How to stop a running slice?

If you need to stop the pipeline from executing, you can use Suspend-AzDataFactoryPipeline cmdlet.

Currently, suspending the pipeline does not stop the slice executions that are in progress.

Once the in-progress executions finish, no extra slice is picked up