1.

What is ADF?

- Cloud based ETL (Extract Transform Load) Tool
- Acts like an Orchestrator
- 2. So what do you mean by ETL and orchestrator?
- 3. Lets understand with an example
- 4. Lets take an example of chocolate factory



here we have one manager and 3 workers

5. And we have 3 dealer's who provide ingredients for our choc



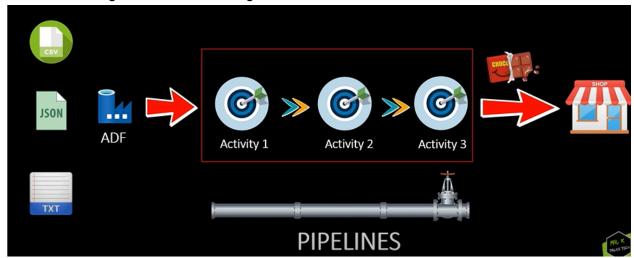
And the manager has good relationship with them

6. Now manager sends this ingredients to workers..now each workers does a separate tasks like

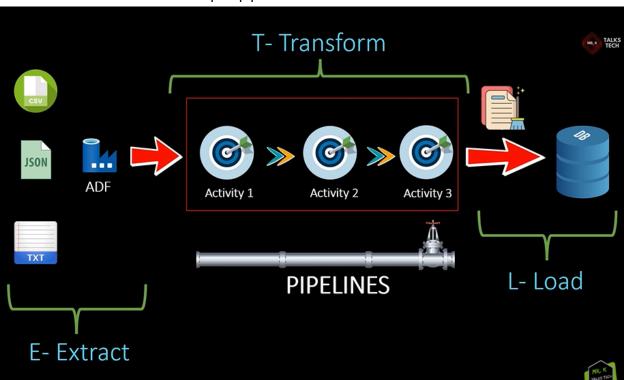


Manager does not work but he manages the workers..whether they doing work in the correct order or not...and at last end users can buy from the stores

7. Now here manager is the ADF and it gets the data from different sources



And here workers can be replaced by activity..where each activity does a separate tasks..it can be done with the help of pipelines



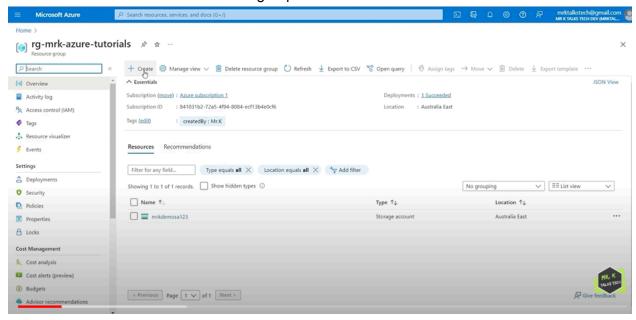
8.

9. Now the data which is in our database is the cleanest data...which can be used by data analysts or BI engg



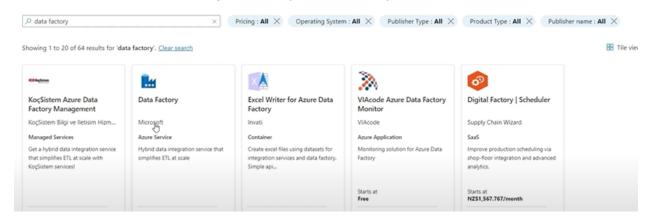
Creating Azure Data Factory.

1. First here we have created a resource group

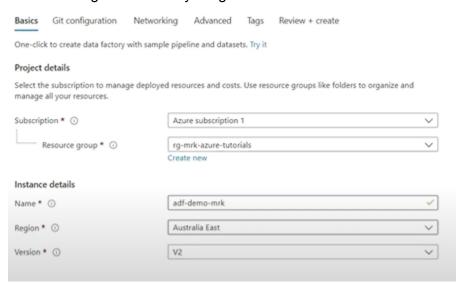


2.

3. Click on create in our resource group and type data factory



4. While creating a data factory we give basic details like this



5. Actually integrating with git is very important..and we have learned in CICD tutorial..but now ...we'll config it later



6. Using managed virtual network...it helps us connecting our ADF with other Azure resources using autoresolve...currently we'll go with the default

Basics	Git configur	ration	Networking	Advanced	Tags	Review + cre	eate				
Manageo	d virtual netv	work									
managed	virtual netwo explicitly crea	rk. If this s		d, after the data	a factory i	s created, you	can still ch	nd inside an ADF- loose whether to			
	anaged Virtua utoResolveInte					D ₂					
Self-host	ted integration	on runtim	e inbound con	nectivity to A	zure Dat	a Factory serv	rice				
	This applies t twork							endpoint or private omer managed Azure			
Connect	ria * ①		P	ublic endpoint							
1 Yo	u can change ti	his or confi	gure another con	rivate endpoin		resource is creal	ted. <u>Learn r</u>	more ^{et}			
		Basics	Git configura	tion Netw	orking	Advanced	Tags	Review + create			
	Datafactory Encryption										
		By default, data is encrypted with Microsoft cmanaged keys. For additional control over encryption keys, you can supply customer-managed keys to use for encryption of blob and file data. Customer-managed keys must be stored in an Azure Key Vault. You can either create your own keys and store them in a key vault, or you can use the Azure Key Vault APIs to generate keys. The storage account and the key vault must be in the same region, but they can be in different subscriptions.									
		Enable en Manageo	ncryption using a d Key ①	a Custonyer							

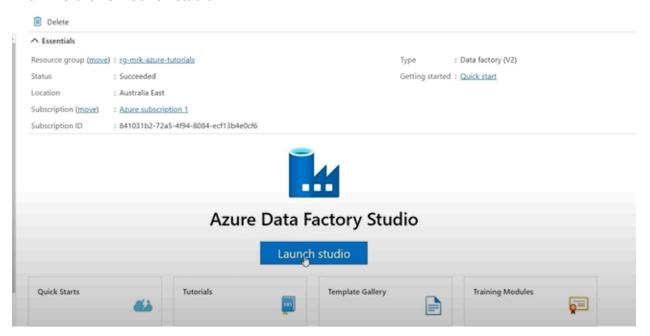
7. IN advanced so if we have our own key..then we can store that in key vault and supply that to ADF via Key

		Enable encryption usin Managed Key ①	ng a Customer	\sim						
		Key Vault Url ★ ①		https://test.v	-					
Vault !	URL	User Assigned Identity ①	for Encryption *					but here		
		ad with azure	e keys							
	Basics	Git configuration	Networking	Advanced T	ags Review + crea	te				
	Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more about tags									
	Note the	at if you create tags and	then change resou	rce settings on o	ther tabs, your tags wil	be automatically u	pdated.			
	Name	⊙	Value ①		Resource					
		- in			D	0.170	100			

8. tags and we validate and create it

Data factory (V2)

9. And if we click on launch studio



10.