





### Azure Data with Elkhan Yusubov

How to upskill with Azure Data Engineering Certification



Getting started with Data Transformation Services in Azure





18:00 (UTC)











# TREX



**Elkhan Yusubov**Principal Cloud Architect







Elkhan is a principal cloud architect and 14 times MSFT MCT with experience in cloud solutions, enterprise healthcare systems and healthcare data, and API standards (HL7 FHIR, EDI X12).

He is an active MCT, a Microsoft Tech Community Contributor and Azure SME (Architecture, DevOps, Security).

He is a frequent speaker at tech meetups and has volunteered for Give Camps, Azure Data Fest, SQL Saturday and Global Azure events.

The Cloud Marathoner - www.thecloudmarathoner.com

# Company Snapshot: T- Rex Is...

- An Innovative NGIT Provider: a leading solutions provider of innovative and modernizing Next Generation IT capabilities and enabling skills to the federal government
- A first to market in migrating large federal mission applications and data into a citizenfacing public cloud, giving the Company the capabilities and past performance to bid and win future NGIT opportunities in adjacent federal agencies
- ▶ A Prime Contractor on 2020 Census, one of the largest (scale) and most complex mission critical cloud/cyber/data analytics integration projects within the federal government







Business Systems **52** 

Application Components
285+

▶ Integrated 52 mission-critical systems comprised of 200+ applications operating in a hybrid hyper-converged data center and Amazon Web Service ("AWS") public facing GovCloud protected by a world class active cyber defense (ACD) solution. Also includes a VDI-based Office 365 solution supporting 40k+ users and MS Azure AD managing 350k+ mobile users

#### **Achievements & Partnerships**



Silver Data Analytics Silver Application Development Silver Data Platform













#### **Company Info**

Established: 1999

• Legal Structure: LLC

Headquarters: Greenbelt, MD

 8(a)/HUBZone & SDVOSB Joint Ventures: Ability to deliver services as a small business concern

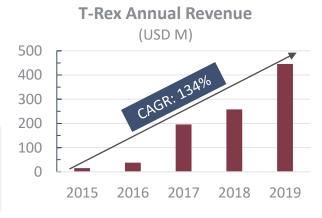
• Prime/Sub (09/20): 98.5% Prime

• Backlog (09/20): \$341.6MM

#### Prime Vehicles/BPAs:

- GSA Schedule 70
- USDA Cloud
   COE BPA
- Dept of Commerce ESF

#### **Financial Summary**







### What we will cover

ADF Concepts Piplines and Activities

Linked Services

**Datasets** 

Pipline execution

Monitoring

Triggers

Data flows

### What we will not cover



Integration with 3<sup>rd</sup> part services

- CI/
  - CI/CD in piplines

ADF supported external activities

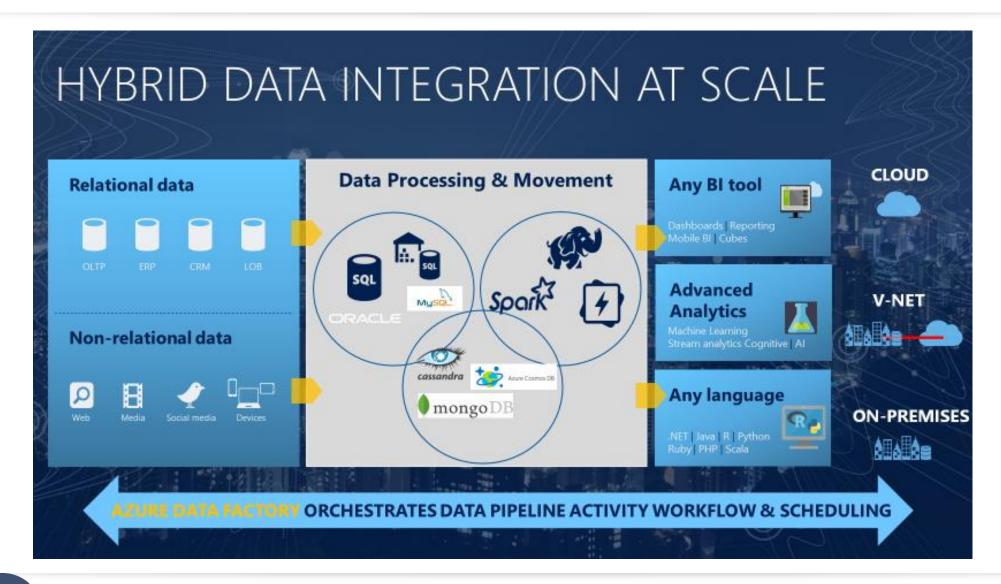
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**Integration Runtimes** 

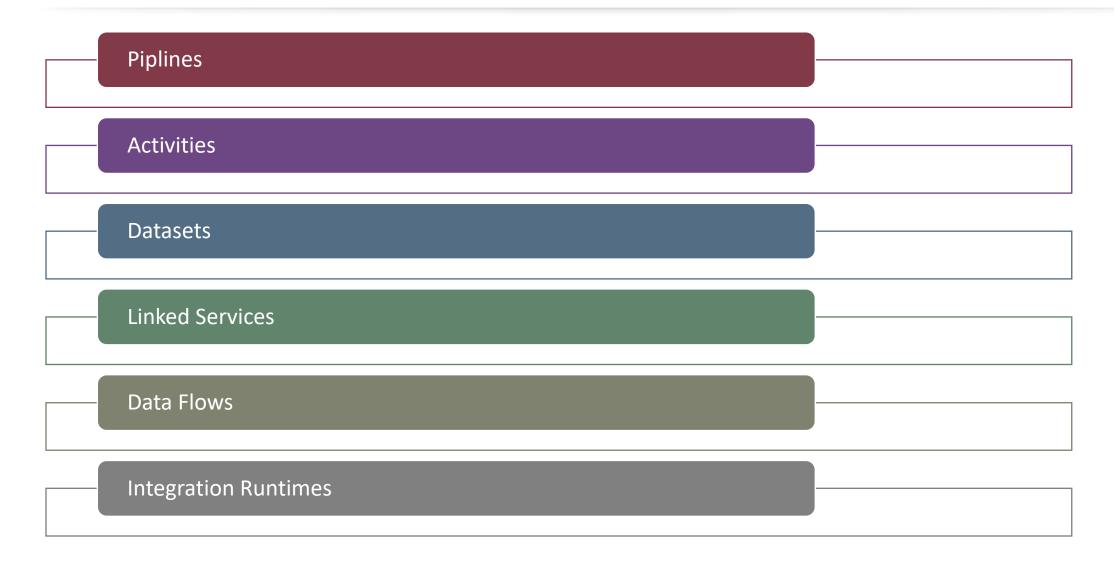
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Advanced topics

#### What is ADF and WHY?

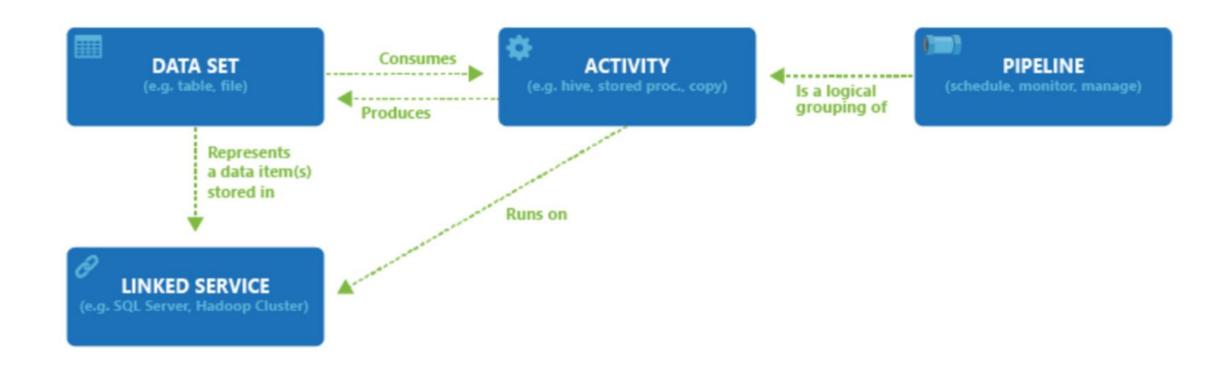


# **Top Concepts in ADF**





# Relationship between ADF components

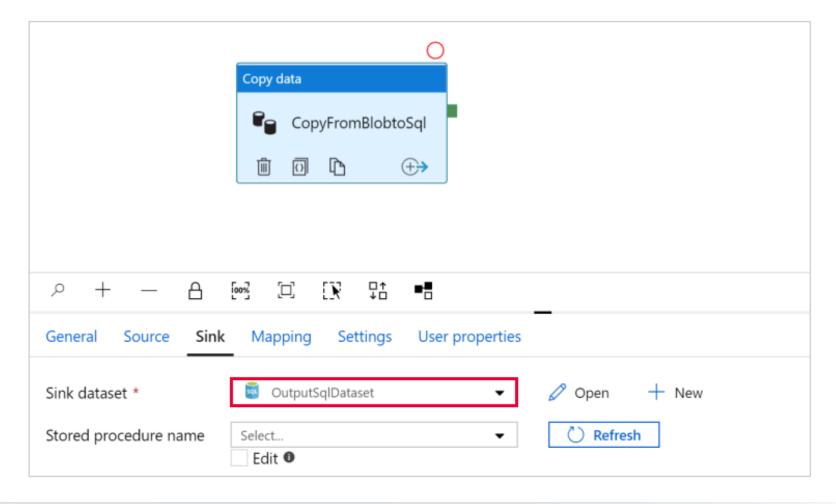


### What ADF does?



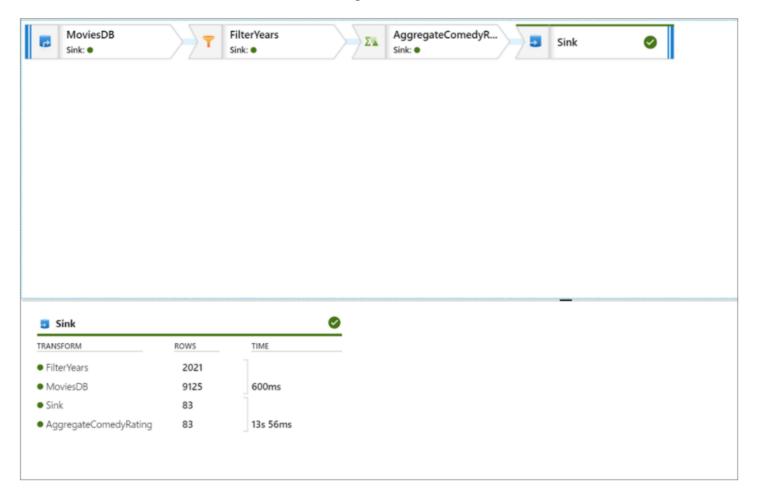
# Demo 1 – Data copy activity

#### Azure Blob storage >>> Azure SQL Database, using Azure Data Factory



# **Demo 2 – Data Transformation**

**Transform data using mapping data flows in Azure Data Factory** 





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T-REX
Q&A





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