

Intro to the cloud ETL and ELT services in Azure







T-REX



Elkhan YusubovPrincipal 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

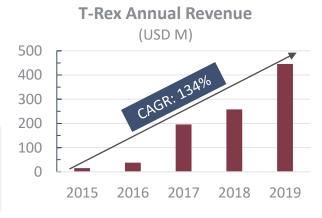
• Prime/Sub (09/20): 98.5% Prime

• 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 3rd part services

- CI/
 - CI/CD in piplines

ADF supported external activities

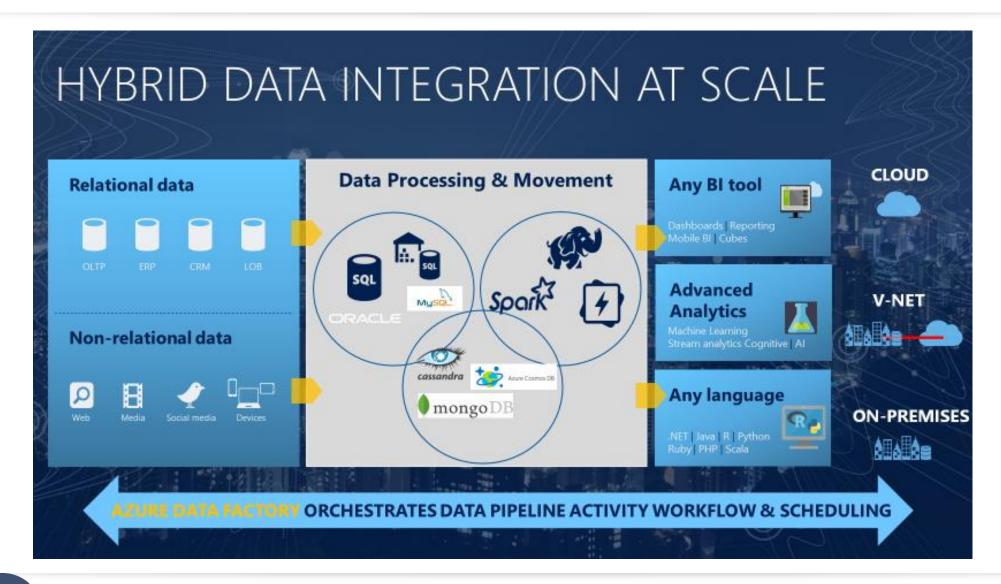
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Integration Runtimes

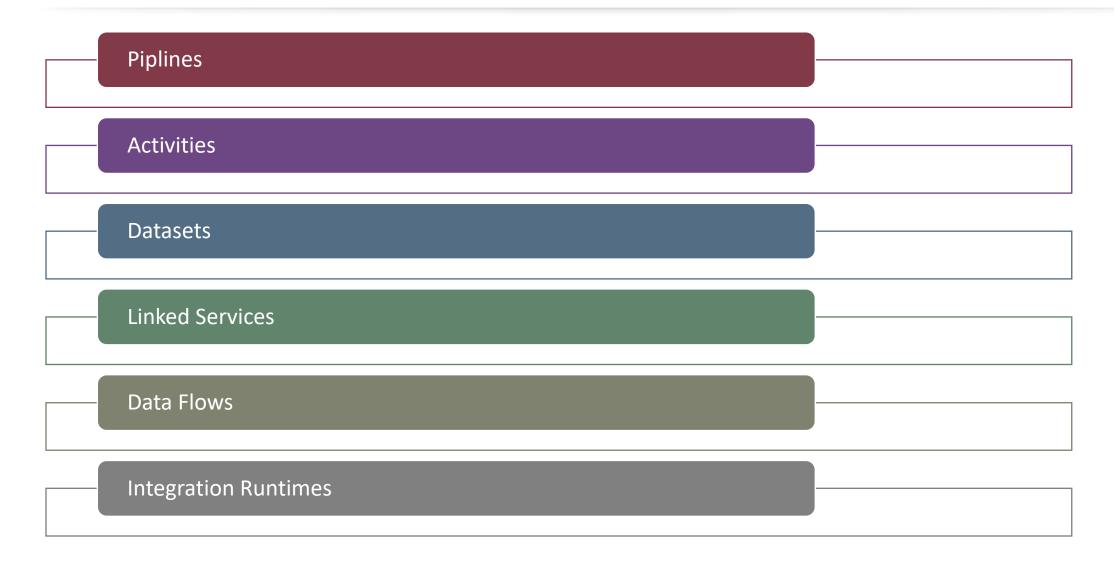
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Advanced topics

What is ADF and WHY?

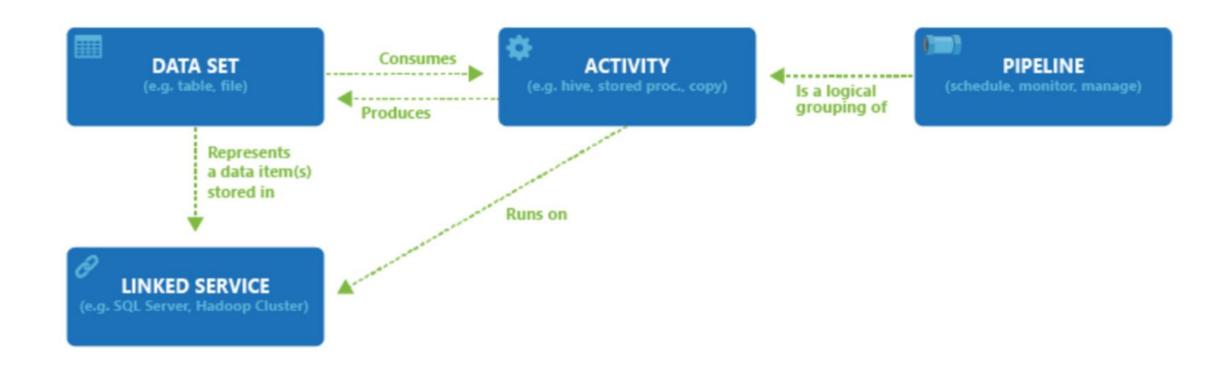


Top Concepts in ADF





Relationship between ADF components

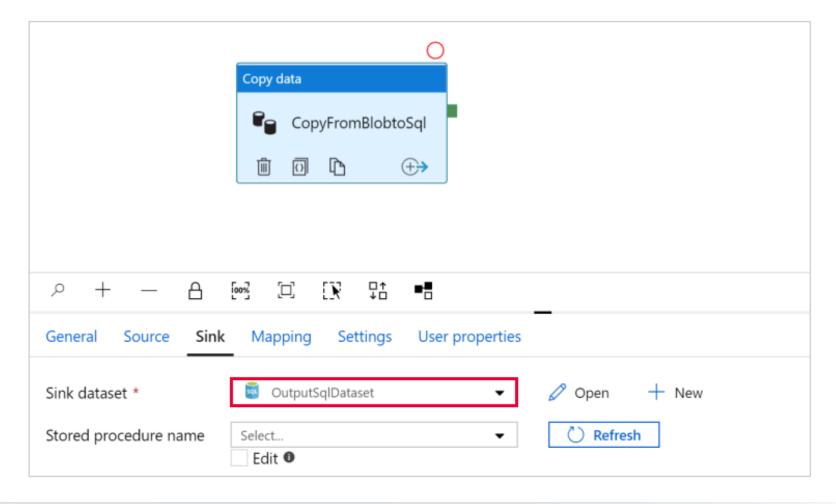


What ADF does?



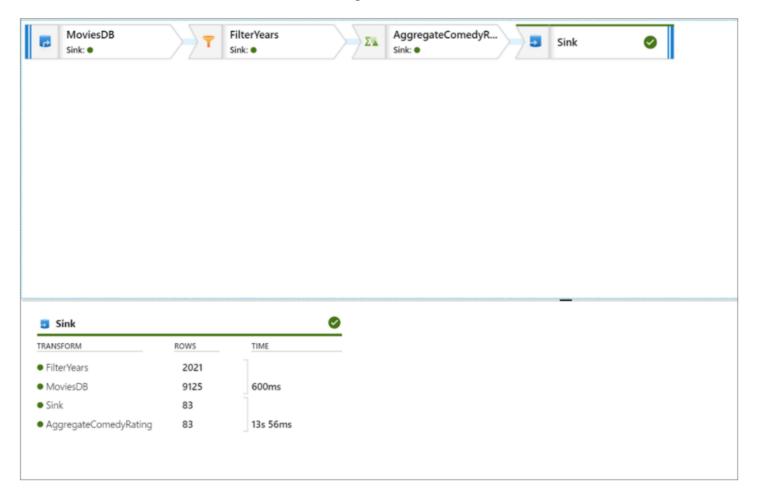
Demo 1 – Data copy activity

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



Demo 2 – Data Transformation

Transform data using mapping data flows in Azure Data Factory





What we have covered

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T-REX
Q&A



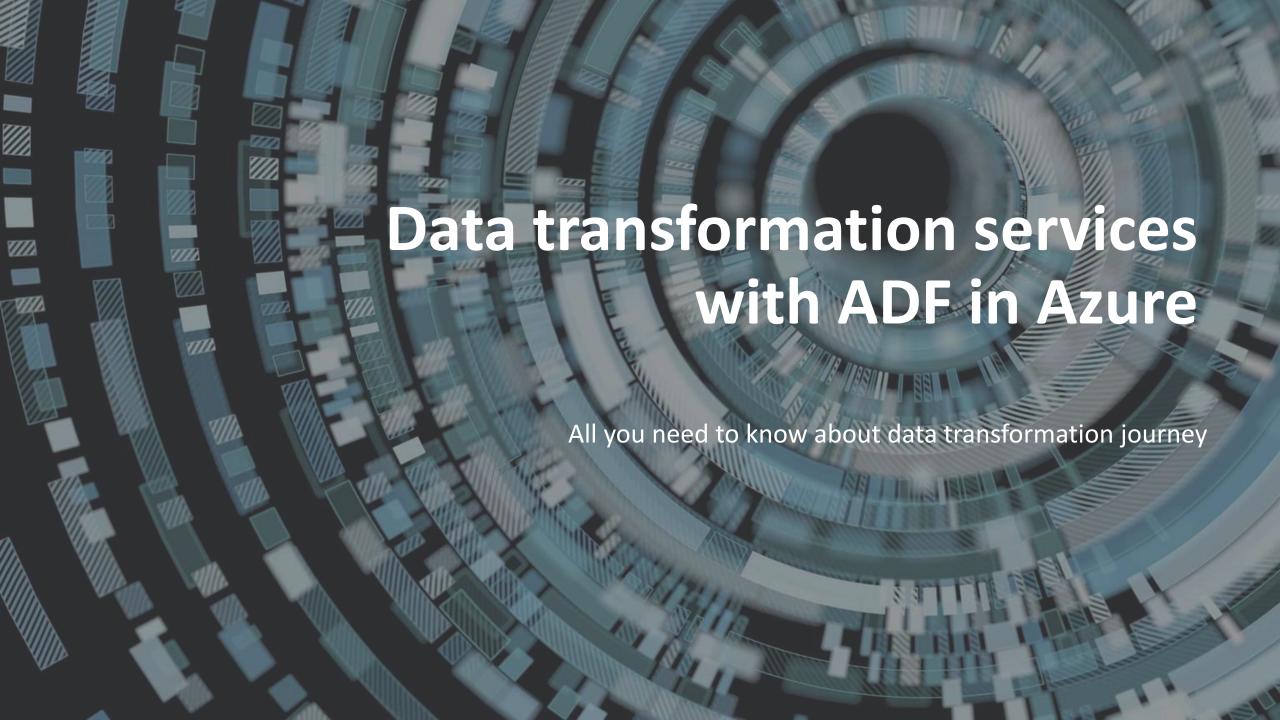


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