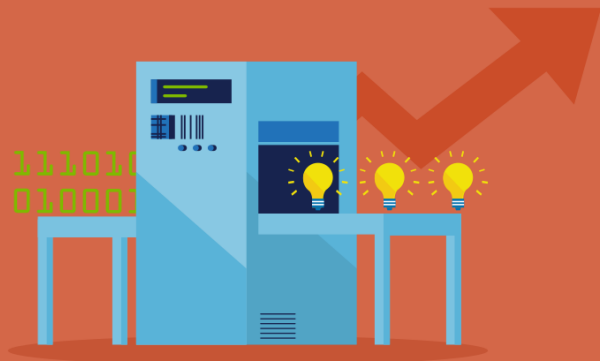


CLOUD ETL WITH AZURE DATA FACTORY & DYNAMICS 365 CUSTOMER ENGAGEMENT



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AGENDA

- About Me
- Reviewing the current Dynamics 365 Customer Engagement (D365CE) ETL landscape
- Overview of Azure Data Factory V2
- **Demo:** A 15 minute data migration from CRM On-Premise 2013 to D365CE Online! 😊🙏
- “Notes from the Field”: Limitations and Caveats with ADF
- Closing thoughts
- Q&A

ABOUT ME

- IT Project Manager / Consultant @ SOLO Managed Services (UK) Ltd.
- MCSA Dynamics 365 & BI Reporting, MCSE Business Applications & Data Management and Analytics
- Worked with CRM/D365 for around 4 years; previous background of SQL, C#, Office 365; currently involved as technical architect for a solution for the UK water industry, built using Power BI and Azure
- PRINCE2 PM/Agile Practitioner
- Certified Scrum Master (Scrum Alliance)
- CRMUG/D365UG NW Committee Member



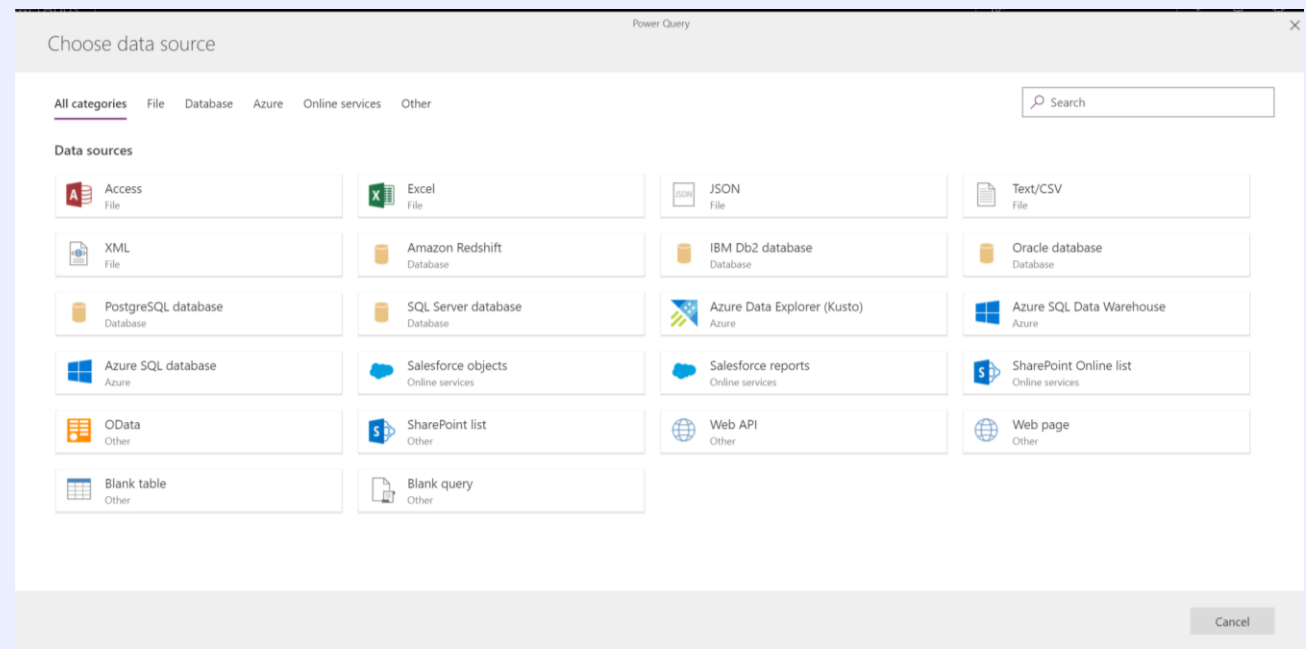
THE D365CE ETL LANDSCAPE

- There are many solutions on the market today to help with our data integration needs...
- However, finding a tool that can address the following objectives simultaneously is a challenge:
 - Minimal cost investment.
 - Fully cloud based (i.e. no virtual machine/server environments)
 - Unified DevOps Experience
 - Low-Code, with full capability for bespoke code extension.

As such, businesses/organisations may end up compromising and implementing a costly solution, in terms of effort, physical cost or technical strategy.

TIBCO® Scribe®

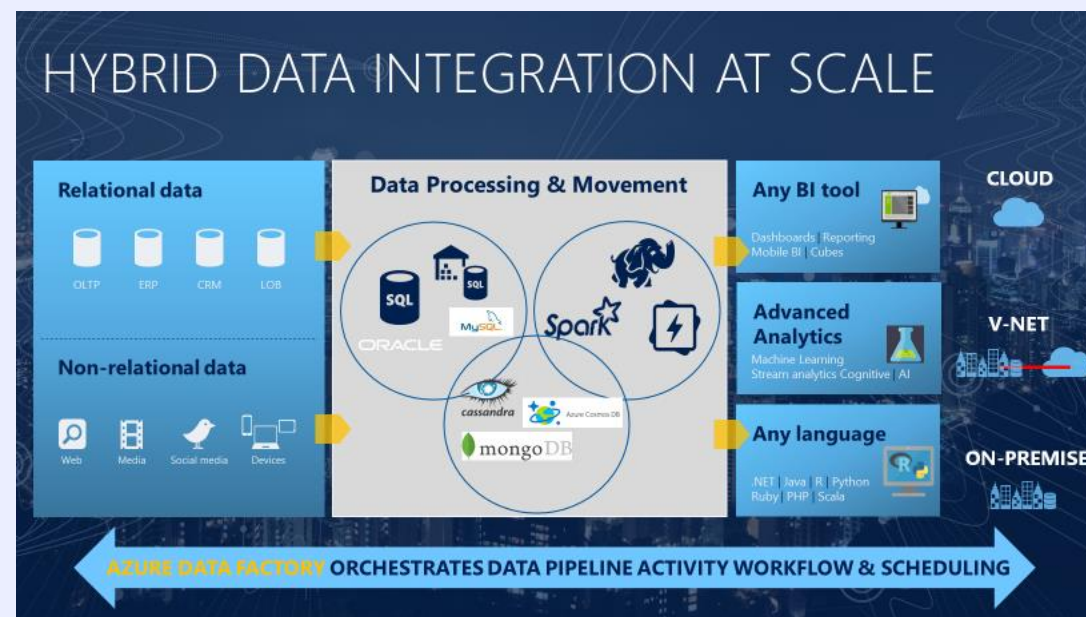
KingswaySoft



Microsoft®
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Integration Services

INTRODUCING AZURE DATA FACTORY V2

- Launched in mid 2015, Azure Data Factory V2 saw a major overhaul to the service.
- Designed to meet both simple and complex data integration needs.
- Managed, cloud-based service, an “SSIS killer” ...
- ...but with full support to lift/shift your existing DTSX workloads to the cloud with ease.



KEY FEATURES

Easy to Use, “low code” Development Experience

- Intuitive, drag and drop interface
- Wide range of activity/tasks available, such as Copy Data, Execute Stored Procedure, Filter data, Lookups and more!
- Affords flexible development options – in browser, Visual Studio or even via manual JSON modification.
- Data Flows (in preview) offer almost complete feature parity with SSIS.

Wider Stack Integration

- Over 80+ supported data sources, both Microsoft and non-Microsoft (Salesforce, SAP etc.) – including Dynamics 365 Customer Engagement
- Full support for leveraging Azure Functions, Azure Databricks, U-SQL, Machine Learning etc. within pipelines.
- Also has full support for running existing SSIS package in-cloud, allowing for a streamlined migration to cloud.

Full DevOps Integration

- Link directly to a GitHub/Azure DevOps repository form within Azure Data Factory.
- Create branches and pull requests with ease.
- Automatically compiles Azure Templates, that can then be leveraged as part of a Pipeline deployment.

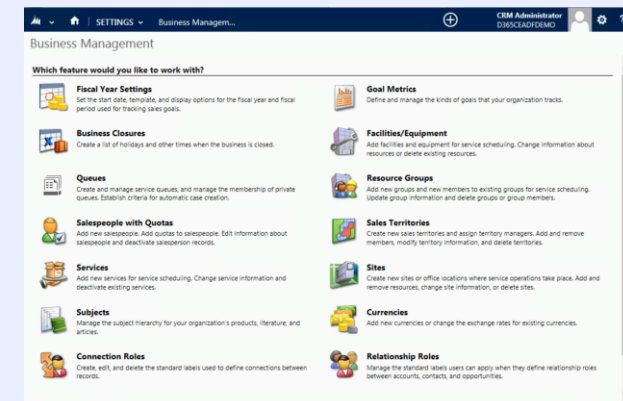
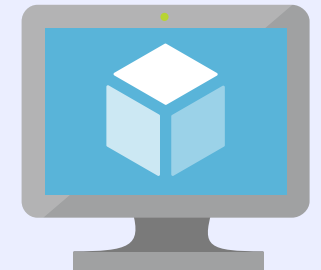
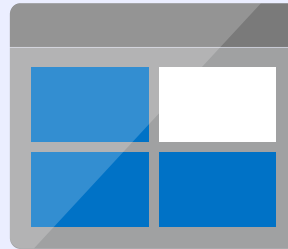
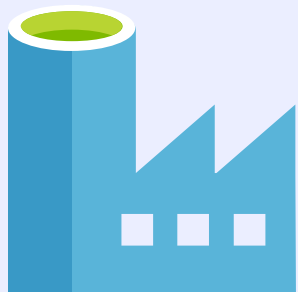
Flexible Pricing Options

- Orchestrate, execute and host multiple integration runtimes for the price of a few cups of coffee each month.
- Reduce monthly server costs from existing SSIS workloads...
- ...or bring them along and realise savings via a fully managed SSIS instance.

DEMO: THE SCENARIO

- Our organisation is currently migrating from Dynamics CRM 2013 on-premise to online.
- As part of this, existing data from the following entities need to be migrated across:
 - Account
 - Contact
 - Lead
- For each entity, it is necessary for us to perform some degree of transformation:
 - **Account:** Modify the Account Name based on the number of employees (e.g. if under 50 employees, append – **SMB** to the end of the Account name)
 - **Contact:** Append fields for contact preference, blocking all contact except via e-mail.
 - **Lead:** Filter and import **Open** Leads only
- In the demo, we will complete the entire data migration in 15 minutes or less!

DEMO: TECHNOLOGY USED



DEMO

THINGS TO KEEP IN MIND...

- Certain D365CE data types are NOT supported for Sink data sources:
 - **Owner** – Not possible to assign to a User/Team during import.
 - **Customer** – For example, not possible to associate a Quote to an Account/Contact record.

Some manipulation in CRM may be required in these situations (e.g. Post Create plug-in to assign records based on conditional logic)

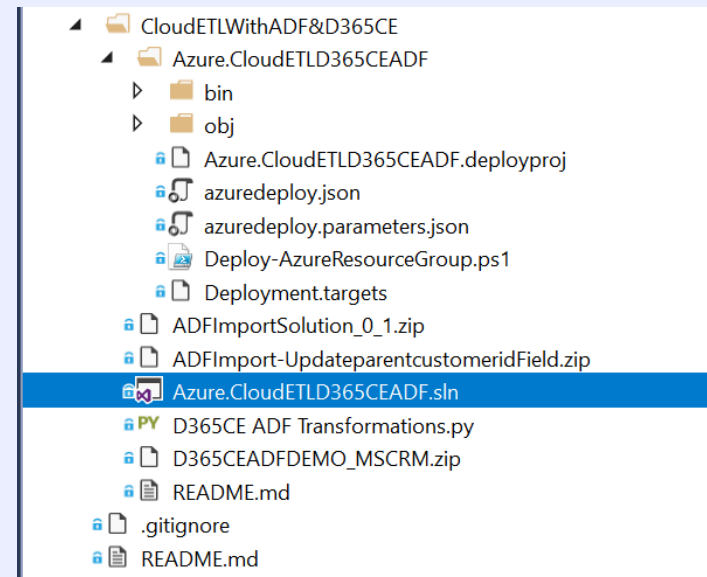
- Can only import data as part of up to 2 concurrent pipelines; errors likely to occur if this is exceeded.
- Work will be necessary to define your preferred Entity schemas, especially if working with custom fields.
- Potential learning curve for traditional SSIS developers or typical users of Scribe Online etc.

WRAPPING UP

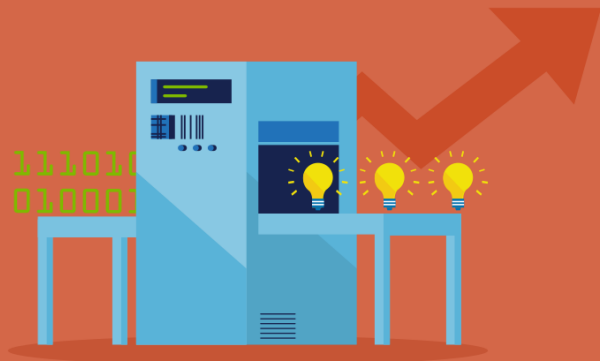
- Similar to V2 of the Common Data Service, Azure Data Factory V2 has very much entered a mature, stable and – arguably – preferable to use state for your data integration needs.
- Provides a far more integrated, seamless DevOps experience versus SSIS.
- Allows you to achieve complex data integration needs that can be orchestrated at will and not break the piggy bank in the process 😊

SAMPLES

- Get started with Azure Data Factory using the sample scenario shown today:
 - <https://github.com/JJGriffin/talk-assets/tree/master/CloudETLWithADF%26D365CE>



THANK YOU FOR LISTENING! ANY QUESTIONS...?



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