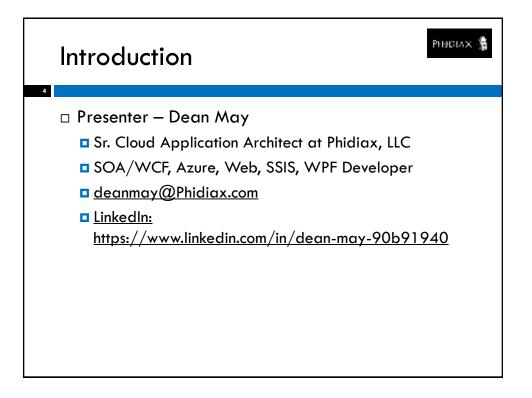


Agenda Introduction Data Factory Entities Dataset Pipeline Activity Linked Service Gateway Scheduling Data Copy Wizard Transform Activities Questions



Introduction



- □ What is Data Factory?
 - Data Factory is a cloud-based service for moving and transforming data
 - Data Factory provides scheduling and slicing facilities



Introduction

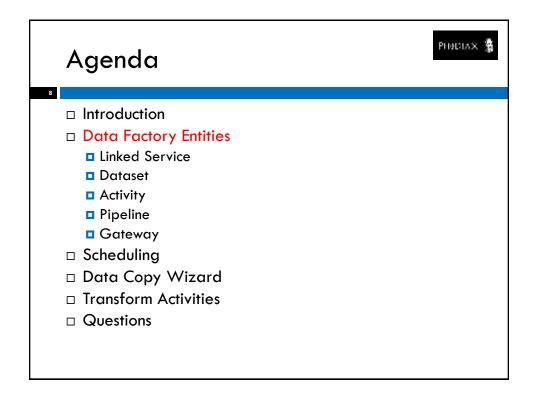


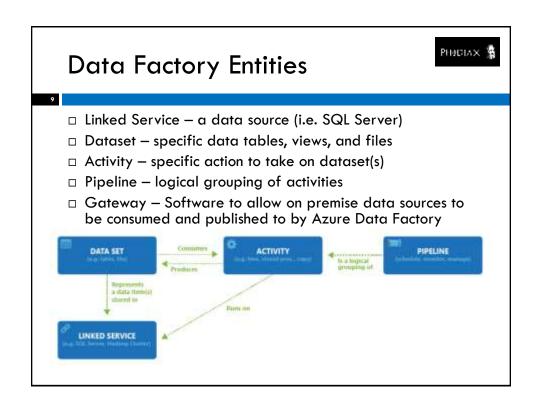
□ Data Factory Activity Costing (first five activities are free):

Frequency	Cloud/On-Prem	Activity Cost (\$/activity/month)	Data Movement Cost (\$/hour)
Daily or less (low)	Cloud	\$0.60	\$0.25
	On-Prem/Gateway	\$1.00	\$0.10
More often (high)	Cloud	\$1.50	\$0.25
	On-Prem/Gateway	\$2.50	\$0.10
Inactive	Cloud/On-Prem	\$0.80 (pipeline/month)	N/A

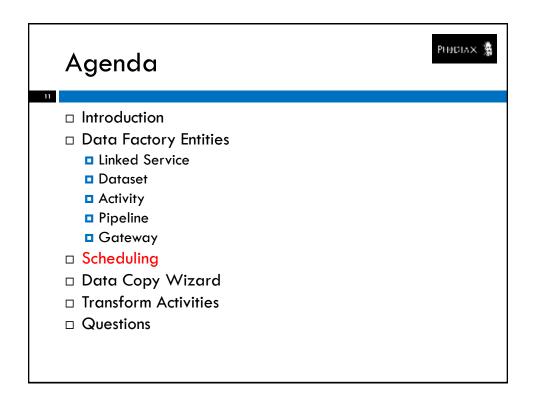
□ Batch pricing for custom activities based on selected VM sizes to be used

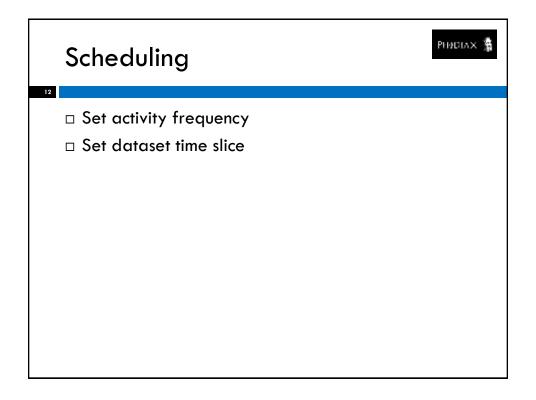
Introduction Rerun Activity pricing: \$1.34 per 1,000 reruns for cloud based datasets \$3.36 per 1,000 reruns for on-prem/gateway based datasets

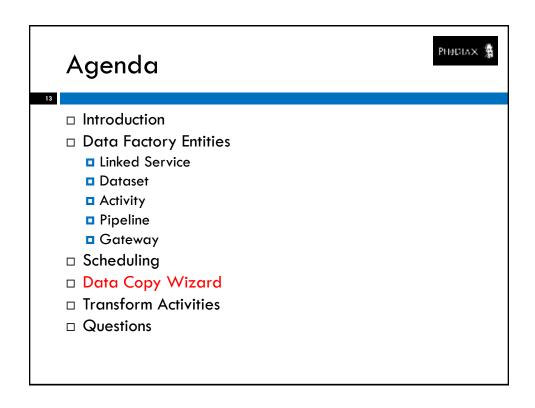


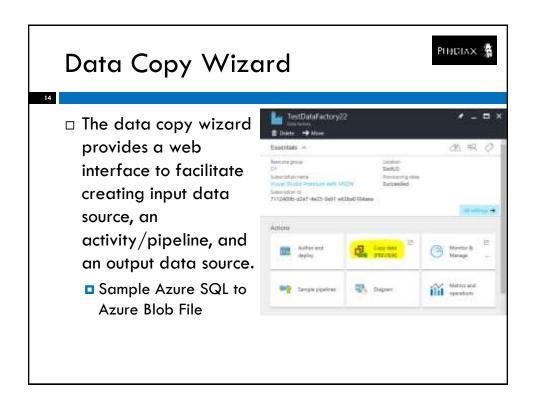


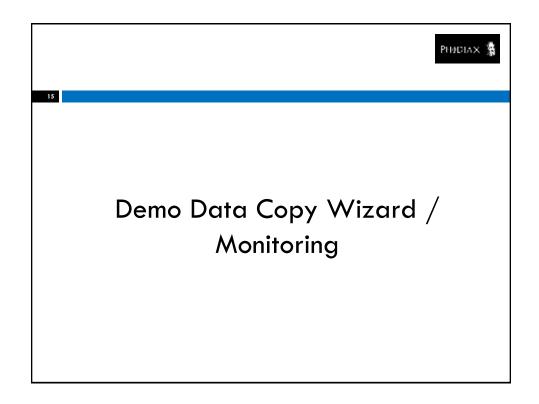


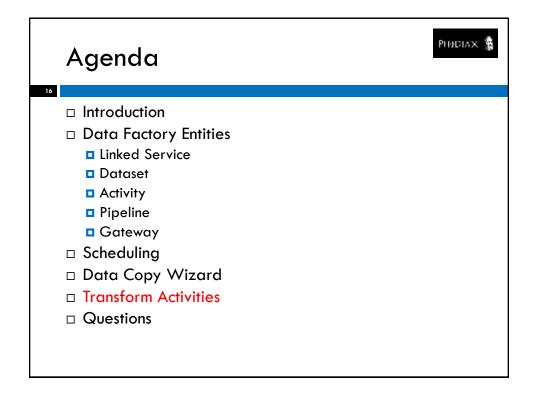












SQL Stored Procedure Transform Activity



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- □ SQL Stored Procedure activities can only run using time slices as inputs, though they can be made dependent on prior datasets.
- ☐ To target a stored procedure using full dataset as an input:
 - Use a Copy Activity
 - Create a User Defined Table Type to match the input dataset schema
 - Create a stored procedure that accepts the UDTT as an input parameter

Demo Azure Blob Load to Azure
SQL Stored Procedure

Custom Transform Activity





- ☐ Custom Transform Activities can be developed in .NET and run using the compute time of an Azure Batch instance.
 - Setup an Azure Batch instance
 - Implement the IDotNetActivity interface's Execute method
 - Custom inputs can be provided in extended properties
 - Upload built code to Azure Storage
 - Use an Azure Batch Linked Service in the pipeline
- Debug custom activities with the following component:
 https://github.com/gbrueckl/Azure.DataFactory.Custom
 ActivityDebugger

Phidiax Custom Activities





- □ Custom SSIS-like activities created for Data Factory use:
 - Sort Single input dataset, output one dataset per sort
 - Conditional Split Single input dataset, multiple output filtered datasets
 - Merge Two input datasets, output one dataset per merge
 - Computed Columns Single input dataset, output indicated number of datasets
- □ Custom activity input and outputs
 - Azure SQL Database
 - Azure Blob Storage

