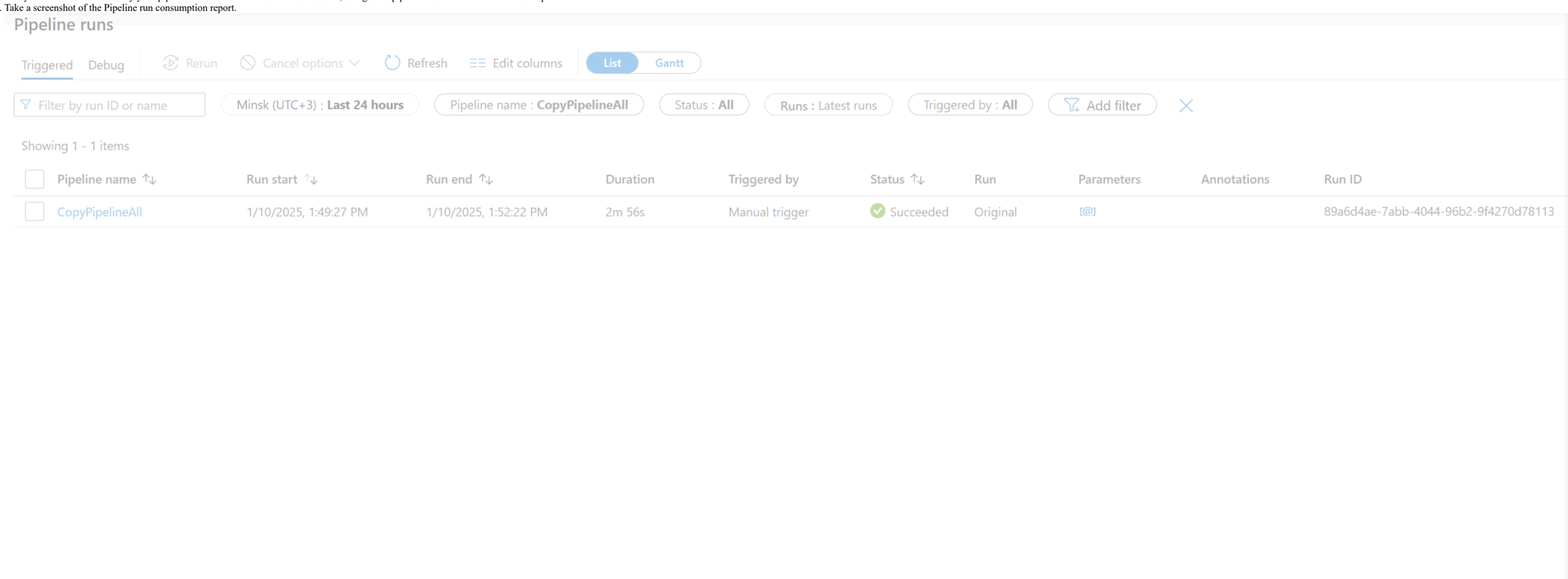
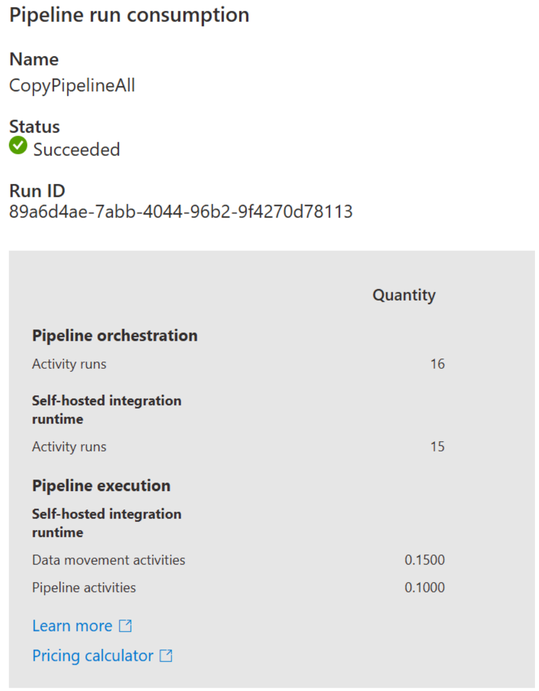
Task 1.4 Cost Analysis

Steps to complete the task

1. Analyze resources consumed by your pipeline in the Task 1.1. Refer to the Monitor, navigate to pipeline execution and click Consumption icon.
2. Take a screenshot of the Pipeline run consumption report.





	Quantity	Unit
Pipeline orchestration		
Activity runs	16	Activity runs
Self-hosted integration runtime		
Activity runs	15	Activity runs
Pipeline execution		
Self-hosted integration runtime		
Data movement activities	0.1500	Execution hours
Pipeline activities	0.1000	Execution hours

Learn more
Pricing calculator

1. Using the information from the consumption report calculate cost of single pipeline execution. Provide detailed calculations by activity types (Data movement, Pipeline and External) and Integration runtime types (Azure Integration Runtime and Self-Hosted Integration Runtime).

Data Pipelines

Type	Azure Hosted Managed VNET Price	Azure Hosted Price	Self Hosted Price
Orchestration Activity Run	**$1** per 1,000 runs	**$1** per 1,000 runs	**$1.50** per 1,000 runs
Data Movement	**$0.25**/DIU-hour	**$0.25**/DIU-hour	**$0.10**/hour
Pipeline Activity Integration Runtime	**$1**/hour (Up to 50 concurrent pipeline activities)	**$0.005**/hour	**$0.002**/hour
Pipeline Activity External Integration Runtime	**$1**/hour (Up to 800 concurrent external pipeline activities)	**$0.00025**/hour	**$0.0001**/hour

Data Integration

Data Pipelines

Azure-Hosted $0.02

Orchestration

0.016 Activity Runs (X 1,000) × $1.00 Per 1,000 runs = $0.02

Data Movement

0 Data Integration Unit × 730 Hours × $0.25 Per DIU-hour = $0.00

Pipeline Activity Executions

Integration Runtime

0 Integration Hours × $0.005 Per hour = $0.00

External Integration Runtime

0 Integration Hours × $0.00025 Per hour = $0.00

Azure-Hosted Managed VNET $0.00

Self-Hosted $0.04

Orchestration

0.015 Activity Runs (X 1,000) × $1.50 Per 1,000 runs = $0.02

Data Movement

0.15 Hours × $0.10 Per hour = $0.02

Pipeline Activity Executions

Integration Runtime

0 Integration Hours × $0.002 Per hour = $0.00

External Integration Runtime

0.1 Integration Hours × $0.0001 Per hour = $0.01

Data Integration

Data Pipelines

Azure-Hosted $11.68

Orchestration

11.68 Activity Runs (X 1,000) × $1.00 Per 1,000 runs = $11.68

Data Movement

0 Data Integration Unit × 730 Hours × $0.25 Per DIU-hour = $0.00

Pipeline Activity Executions

Integration Runtime

0 Integration Hours × $0.005 Per hour = $0.00

External Integration Runtime

0 Integration Hours × $0.00025 Per hour = $0.00

Azure-Hosted Managed VNET $0.00

Self-Hosted $27.38

Orchestration

10.95 Activity Runs (X 1,000) × $1.50 Per 1,000 runs = $16.42

Data Movement

109.5 Hours × $0.10 Per hour = $10.95

Pipeline Activity Executions

Integration Runtime

0 Integration Hours × $0.002 Per hour = $0.00

External Integration Runtime

73 Integration Hours × $0.0001 Per hour = $0.01

Data Flows

Data Flows $0.00

Upfront cost $0.00

Monthly cost $39.06

2. Calculate monthly cost with the following assumptions: â€¢ Pipeline is executed hourly. â€¢ Each pipeline execution consumes the same amount of resources.

3. Using the same approach and assumptions, calculate cost of single execution and monthly cost of pipeline from the Task 1.3.

Azure Databricks

Region: West Europe

Workload: All-Purpose Compute

Tier: Premium

Category: General purpose

Instance Series: Dv2-series

INSTANCE: (Need help finding the right VM?) D3 v2: 4 vCPUs, 14 GB RAM, 200 GB Temporary storage, 0.75 Databrick...

1 Virtual machines × 730 Hours

Savings Options

Explore pricing models to help optimize your Azure costs. Learn more

Pay as you go

- (•) Pay as you go

Savings plan

- ( ) 1 year savings plan (~24% savings)
- ( ) 3 year savings plan (~45% savings)

Reservations

- ( ) 1 year reserved (~40% savings)
- ( ) 3 year reserved (~59% savings)

$198.56
Average per month
($0.00 charged upfront)

= $198.56
Average per month
($0.00 charged upfront)

4. Calculate monthly cost of Databricks cluster owning with the following assumptions: â€¢ The cluster works 24 / 7. â€¢ You use Pay As You Go payment method.