



# Delta Lake MVP Databricks Accelerator

Bring reliability, performance and lifecycle management to your data lake fast with Rackspace Technology and Databricks.

Many organizations want to take advantage of the massive amount of data accumulated in their data lake in order to reveal valuable insights. But without automated data pipelines in place, that process can be complex and time consuming. And it can be further complicated when the data quality is poor and unorganized. With the volume and velocity in which new data is created, unreliable data pushed and stored in a data lake can lead to lag times in processing and inhibit future innovation.

## Experts Dedicated to Your Success

Rackspace Technology solves these challenges with a data lake MVP on the Databricks platform that adds a delta lake to organize and streamline metadata management and schema evolution with support for ACID transactions for your data in just 4 weeks. We start small, prove value, implement fast and continually optimize your data architecture to meet ever-increasing business demands.

By building your data lake on Databricks, your data and AI workloads become greatly simplified. Plus, Databricks offers new technology capabilities that allow for transforming existing data lake implementations and streamlining the process of making data available for machine learning and analytics workloads. By incorporating a delta lake on Databricks, you will amplify your data integrity and performance, optimize lifecycle management and overcome poor data ingestion and challenges to modifying or deleting data for compliance.

Streamline your data pipeline while simplifying your process by leveraging Rackspace Technology expertise, combined with purpose-built, cloud-based analytics tools and the Databricks platform to enhance collaboration across your full data and machine learning lifecycle.

## Key Features

The Rackspace Technology 4-week MVP provides a quick start minimum viable product implementation of a data lake on the public cloud of your choice with the advantages of Databricks.

Features of the Delta Lake MVP include:

- Integrated cloud data lake and Databricks environment
- Environment and security integration
- Data set organization
- Delta Lake enablement
- Cluster setup and configuration

## About Rackspace Technology™

Rackspace Technology is your trusted partner across cloud, applications, security, data and infrastructure.

- A leader in the 2020 Gartner Magic Quadrant for Public Cloud Infrastructure Professional and Managed Services, Worldwide
- 2,500+ cloud professionals
- Hosting provider for more than half of the Fortune 100
- 20+ years of hosting experience
- Customers in 120+ countries

*"I'm amazed at how quickly we got to a working proof-of-concept. We thought it would take months and Rackspace Technology got it done in weeks."*

**Edward Sawyer** :: General Manager, Cerapedics

## Fanatical Experience™

Experts on your side, doing what it takes to get the job done right. From first consultation to daily operations, Rackspace Technology combines the power of always-on service with best-in-class tools and automation to deliver technology when and how you need it.

## MVP Timeline and Activities

In four weeks, Rackspace Technology will deliver a functioning data lake environment with automation, a data pipeline and a delta lake foundation for the data set. Customers will also receive a design document, architectural diagrams, notebook and transformation code. The accelerator provides a design pattern to implement additional data sources.

Week 1	Week 2	Week 3	Week 4
Discovery & Planning	Design & Build	Ingest & Transform	Notebook Design
<ul style="list-style-type: none"><li>• Review data sources</li><li>• Review data model, security and ingestion requirements</li><li>• Review use case</li></ul>	<ul style="list-style-type: none"><li>• Design of the data lake environment and architecture</li><li>• Databricks cluster setup and configuration</li><li>• Ingestion design</li></ul>	<ul style="list-style-type: none"><li>• Ingestion of one data source using a cloud native ingestion service or leveraging an existing data lake storage as the source</li><li>• Build the delta lake transformation jobs</li><li>• Automation and runbook creation</li></ul>	<ul style="list-style-type: none"><li>• Notebook setup and configuration with access to data lake for adhoc exploration</li><li>• Code and artifacts documented</li></ul>

Accelerate your journey to real-time, self-serve, predictive analytics and intelligent applications with a team of highly experienced data engineers and architects that will help you imagine the possibilities, optimize your costs and resources and build a highly automated, scalable and flexible platform foundation that enables your team to innovate fast.

### Take the Next Step

To schedule an introductory discovery session and uncover next steps, visit [www.rackspace.com](http://www.rackspace.com)