IMMUTΛ

SOLUTION SHEET

Run Your Data Science Programs in the Cloud with less Risk and 60% Lower Costs

Lifting and shifting data science operations to the cloud is expensive and risky. Our latest release introduces new features that can help you save more than 60% of cloud infrastructure costs while enforcing required privacy controls and governance across all of your enterprise data.

Our enterprise customers across regulated industries have started to utilize the power of the cloud to accelerate their data science programs, drawn to the cloud's elastic nature and their ability to quickly experiment with powerful new storage, compute services and machine learning frameworks to drive better business outcomes. With the major cloud players rapidly introducing new innovations, plus the flexibility of cloud infrastructure, it's easy to see why enterprises are increasingly drawn to training their models in the cloud.

"We are seeing a growing trend towards cloud adoption for analytics workloads, especially within the most data–driven organizations. The cloud is well–suited for AI model development and training use–cases, however, privacy and security issues continue to be of concern.

Matt Aslett
Research Vice President, 451 Research

With all of the perceived benefits of cloud-based data science, there are three key areas where enterprises struggle.

TIME

Data required for training models typically needs to be moved and copied from on–premises to the cloud. Decisions on where that data should land and the compliance concerns surrounding the move can be complex.

RISK

Your data living on–premises had time to "marinate," and custom apps were built around each data source to preserve legal and compliance controls. Those legacy apps aren't moving to the cloud – that would defeat the purpose of moving to the cloud. However, your data must move, leaving it with zero to minimal controls.

MONEY

Data policy enforcement needs to be done manually, by creating "anonymized" copies of data sets, across various user types. The more user and policy combinations you have, the more copies you need to make, store, and manage in the cloud. We've seen this balloon the costs for training AI models by 10x, eliminating any of the perceived benefits of utilizing the cloud for data science.

Immuta has always solved the above three problem areas by enforcing dynamic policy controls on databases, Hadoop, and file systems. Providing a consistent control plane that allows data scientists, legal & compliance, and data owners to work together in a frictionless, symbiotic environment which fosters sharing.

Public cloud is the favored development environment for

53%
organizations currently **developing** AI/ML software.

48%
organizations currently **deploying** AI/ML software.

37%
organizations planning to **use** AI/ML software.

THE MORE DATA PRIVACY POLICIES...
THE MORE STORAGE AND COMPUTE SAVINGS

3
POLICIES
—
66%
SAVINGS

18
POLICIES
—
94%
SAVINGS

A primary new feature is our support for batch workloads on Amazon AWS using EMR and S3.

This is a major benefit to our customers because they can now literally "dump" their data in S3 and enforce fine–grained controls on that data when running transient compute using EMR. This can reduce storage costs significantly – typically creating 60% savings or more.
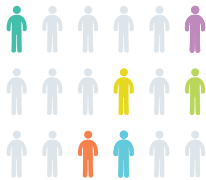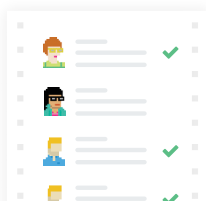
New Platform Capabilities Include

Integration with Amazon EMR and Amazon S3

Data owners can now enforce complex data policy controls where storage and compute is separated to allow transient workloads on the cloud.

Advanced Project Collaboration

We often see scenarios where several different analysts desire to collaborate with one another, yet have no way to do so because they all see different data due to variations in access levels. Immuta can solve this by dynamically equalizing all users to the same level from within a project, providing data consistency for the project collaborators.

Major Policy Logic enhancements

Immuta already supports a broad range of complex policy enforcement controls and we always strive to add to our inventory and expand our flexibility.

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With the Immuta platform, enterprises can quickly operationalize data for their machine learning and advanced analytics programs while easily meeting policy and compliance requirements.