

Accelario Data Virtualization Module

Self-provisioned, continuously refreshed, privacy-compliant and low storage footprint data that meets the demanding needs of agile teams

The Challenge: Keeping up with agile requirements for testing data while minimizing privacy risks and storage consumption

Modern agile and microservice practices use short, high-quality releases that generate a competitive edge by focusing on the needs of the customer. To support agility, teams need ongoing access to their own, autonomous test environments loaded with fresh, relevant data that integrates with their existing CI/CD pipelines.

Additionally, agile teams need to be able to quickly and independently provision and manage this data, to prevent it from becoming a bottleneck that slows them down. Limited storage capacity dictates that cloned databases should have a small storage footprint,

while privacy requirements call for the ability to anonymize data in a way that aligns with organizational privacy policies. Moreover, organizations need to continuously monitor new and existing managed test databases to ensure that the data they're provisioned with complies with privacy regulations.

Existing data copy techniques and outdated TDM solutions aren't suited to the needs of agile teams and microservice development. Test data often takes too long to provision, doesn't support automation and isn't refreshed frequently enough to satisfy CI/CD requirements. Refreshing

environments with the latest production data to support bug reproduction can take days, and is usually dependent on DBAs.

In many cases, multiple teams and team members are forced to use the same testing environments because of time and resource limitations, creating personnel clashes and other inefficiencies. Increasing privacy regulations are also creating challenges when it comes to maintaining compliance across all environments. Moreover, the ability to restore specific data tables within a database to recover data lost due to human error can be a lengthy, complex days-long process.

The Solution: Self-service virtual environments continuously refreshed with production-like masked testing data

Accelario Data Virtualization Module's self-service portal generates virtual environments in a matter of minutes. Data copies are constantly refreshed and provisioned directly into the CI/CD pipeline so that development, integration, bug reproduction and testing never slow down, and defects and bugs are kept down to a minimum.

Advanced masking capabilities enable fast, easy creation of

masked VDBs with the ability to continuously monitor for privacy violations within all managed test databases. Accelario also empowers synthetic data creation capabilities to create and maintain partial, negative path, scaled up and even new data sets from scratch.

Virtual data environments are set up within minutes and new data versions are easily created and instantly shared, all this

without consuming additional storage. Easily create test data environments for each QA/Dev team member, so that everyone has operational independence. Self-service management capabilities enable anyone to provision, refresh, rollback, share and duplicate data.

Data copies are also used as backup images to instantly restore either a full, or a subset, of a database.

The Accelario Advantage

With the Accelario Data Virtualization Module, the DevOps data copy bottleneck is finally eliminated. Teams autonomously create independent and immutable virtual environments that are easily provisioned, refreshed and managed in a way that supports modern agile requirements. Overcome complex privacy and testing needs with advanced native data transformation and masking capabilities.

› **High-speed data copy and refresh**

Data copies are created with a click of a button and are continuously refreshed.

› **Independent data provisioning and maintenance**

User-friendly, self-service portal eliminates reliance on IT and DevOps to create environments and manage data.

› **Ongoing privacy compliance**

Virtual databases are quickly and easily masked, while automated, continuous monitoring ensures that any privacy issues that may arise are immediately alerted upon.

› **CI/CD automation**

Full support for Restful APIs and plugins support seamless CI/CD data pipeline integration.

› **Small footprint**

Virtual data environments don't consume extra storage.

› **Instant recovery**

Data copies are used as backup images to instantly recover either entire or subsets of a database.

| | Accelario | Solutions w/o data virtualization |
|-----------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|
| Provision a 10TB test database | Minutes | Hours |
| Storage footprint for 10 x 10TB test database | 12 TB | 100 TB |
| Bug reproduction time | Click of a button (minutes) | DBA dependant (days) |
| Ability to provide independent test data environment for each QA/Dev team member | Yes | n/a |
| Simple self-service for Dev, Qa, Analysts and DevOps | Yes | n/a |
| Manage privacy regulations within all managed test databases | Native | n/a |
| Restore a specific table | Click of a button (minutes) | Days |