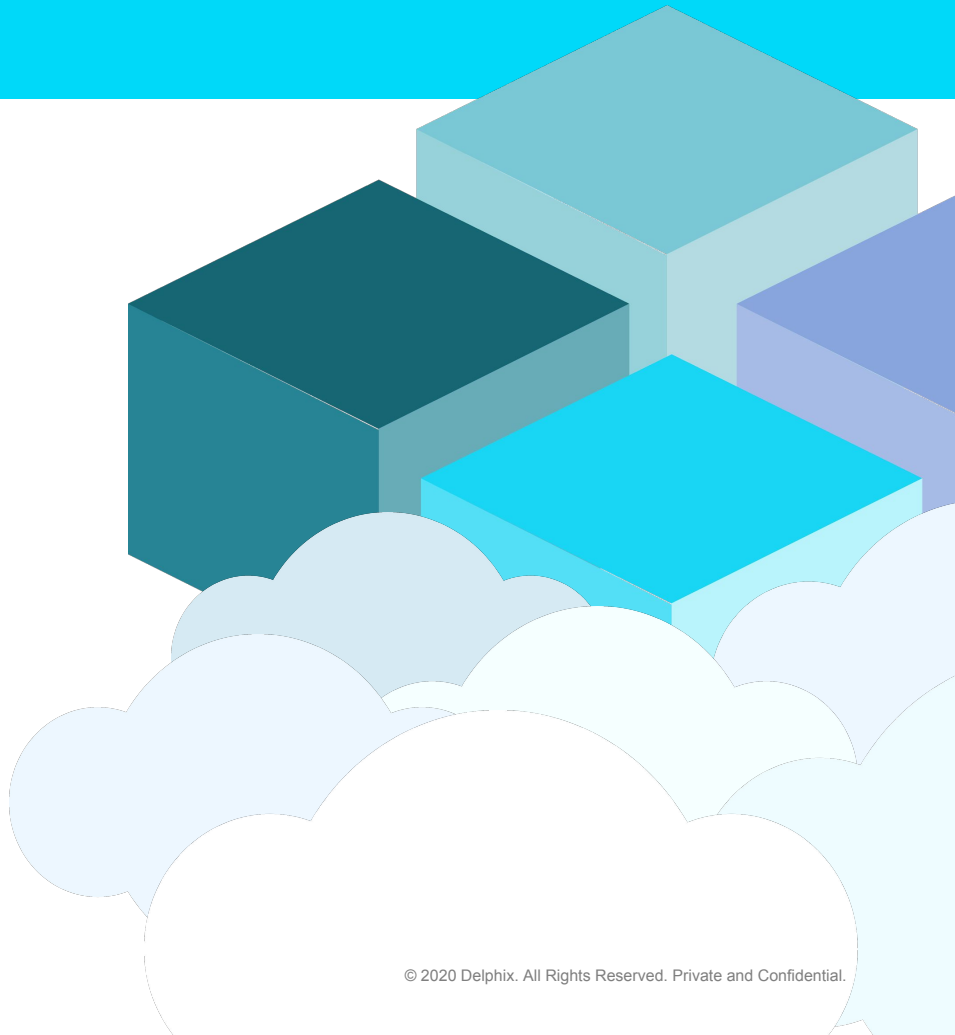
DELPHIX

Delphix 6.0.4 and More

September 2020

Product Marketing



© 2020 Delphix. All Rights Reserved. Private and Confidential.

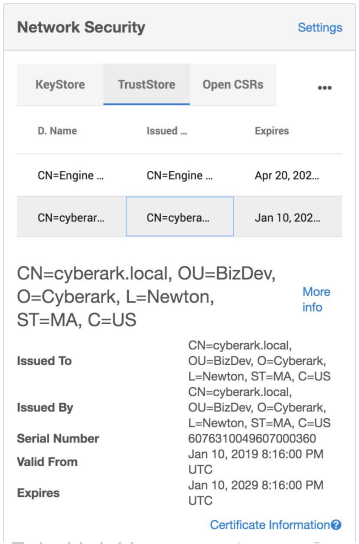
Delphix DataOps Platform 6.0.4: What's New

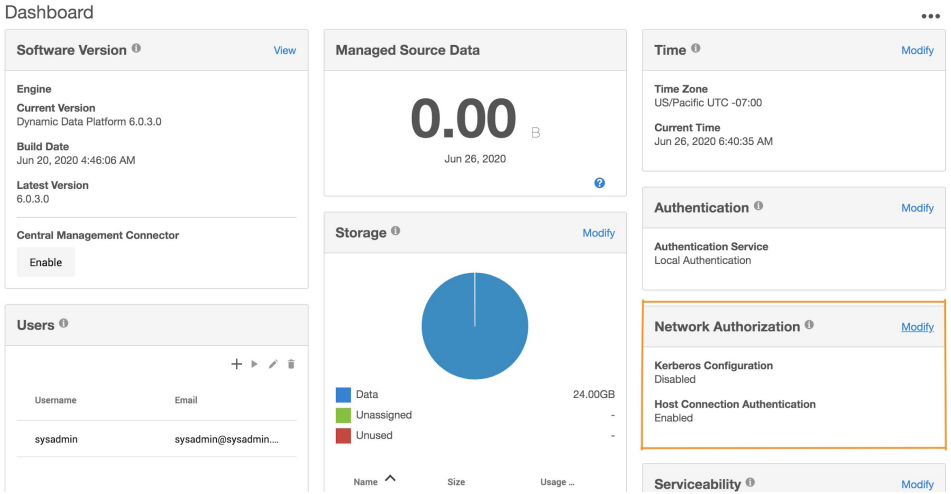
- High Level Updates
  - HashiCorp and Expanded CyberArk Support
  - Masking Job Memory Improvements
  - File Masking Performance
- Central Management Users and Groups
- Technical Updates
  - Algorithm SDK Update
  - New Secure Lookup Algorithm
  - Extensible Connectors Permissions Change
  - Central Management Connectivity Update
  - Certifications: Virtualization, Masking
  - Deprecations

DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.

HashiCorp and Expanded CyberArk Support

- In 6.0.3, we enabled the first phase of password vaults. In 6.0.4, we added CyberArk with Oracle and HashiCorp support.
- UI support for HashiCorp Vault during setup to authenticate host users and database users.
- Extended both CyberArk and HashiCorp Vault support to Oracle Database Users in addition to previously supported ASE and MSSQL domain users.
- This minimizes the number of places where credentials need to be stored and therefore the risk of insecure storage.
- Login as sysadmin user and add CyberArk/HashiCorp CA certificate to the truststore as initial configuration.
- Login to Delphix as system administrator and modify “Network Authorization” section to setup vaults.

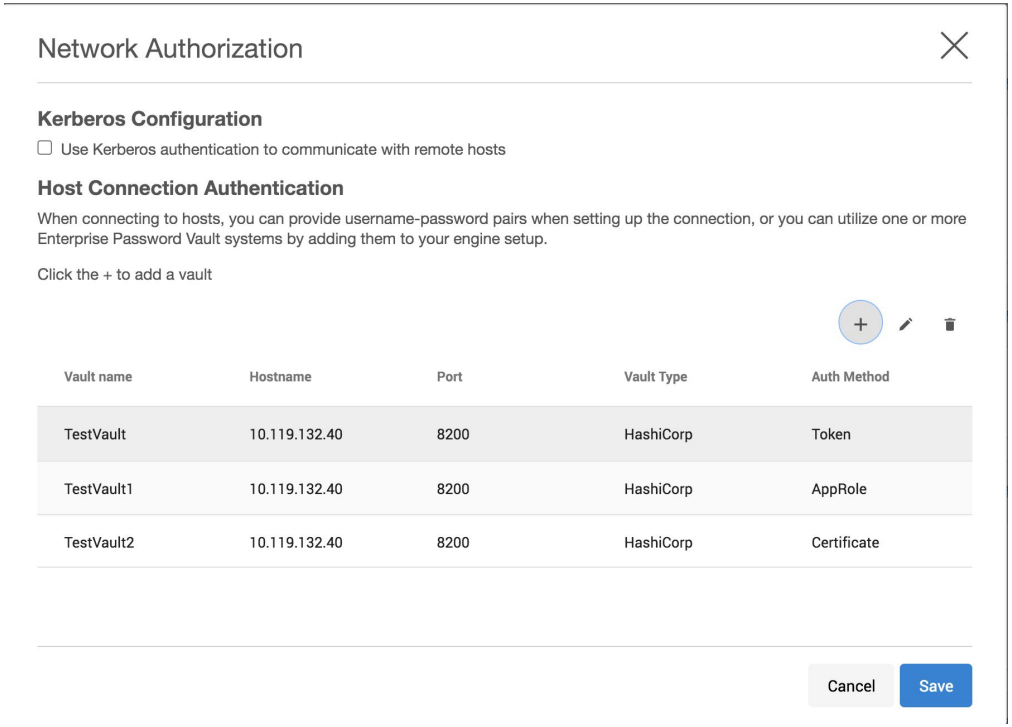




eserved. Private and Confidential.

Password Vault UI

- All the added configurations can be viewed in the ‘Network Authorization’ tab.

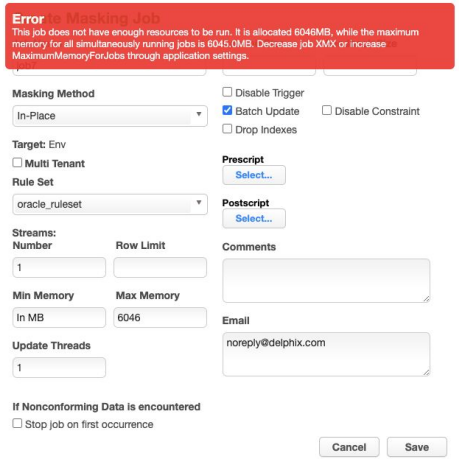


DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.

Masking Job Memory Improvements

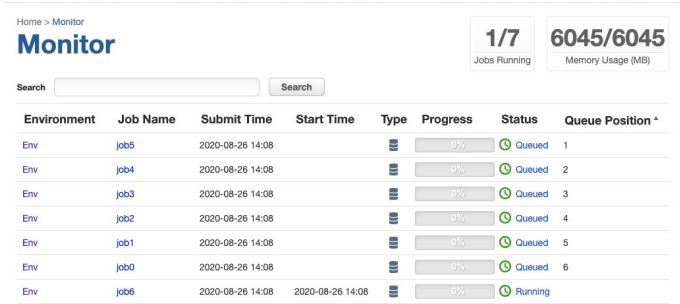
- Memory management has been dramatically improved. Not only can jobs run with less memory, but the masking engine will also now ensure that jobs can only run if enough memory is available and that the engine cannot run out of memory.
- Added job queuing so Delphix automatically schedules masking jobs. See job queuing diagram and description on the next slide.
- The performance of file masking has been significantly improved.

1. Upon creating job with memory requirements > available.



2. Upon submitting job with memory requirements > available.

3. Monitoring when the next job will be run by the engine.



DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.

Job Queuing

Before Job Queuing

Scheduled Job 1

30GB Memory

User manually schedules next job

Scheduled Job 2

30GB Memory

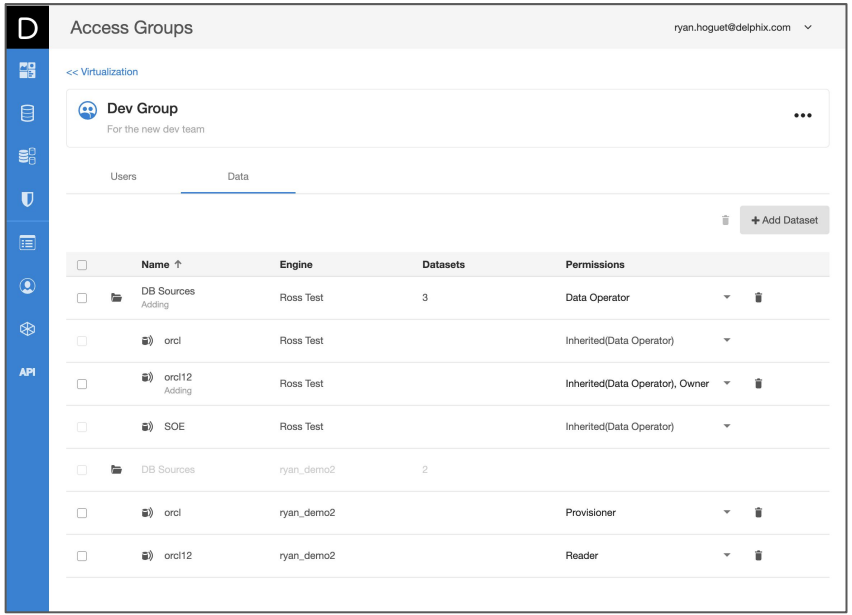
With Job Queuing

Delphix automatically triggers next job

DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.

Central Management Users and Groups

- In Central Management, we added a new model of managing access to data. Rather than assigning each individual user ownership on a per-engine, per-data set basis, you will create “data access groups,” defining access for groups of datasets that can span multiple engines and the set of users that can then access these groups.
- Access to these groups may be set on a per-user basis
- Simplifies how you can manage your data at scale
- Available for engines on 5.3.5 or greater



DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.

Algorithm SDK Update

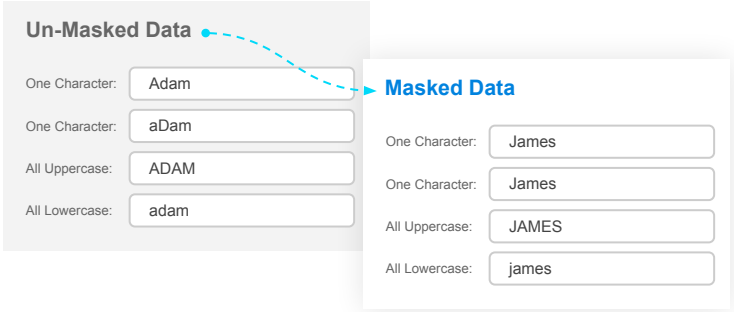
- In 6.0.4, we provided the ability to leverage a JDBC connection to create custom algorithms.
- Useful for you if you want an algorithm that can access data from an external store.

DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.

New Secure Lookup Algorithm

- In 6.0.3, we introduced the masking algorithm SDK. In addition to enabling our partners and you to write new algorithms, we also intend to use this to introduce new variants of our built-in algorithms.
- The first of these is a new Secure Lookup algorithm. The new Secure Lookup algorithm framework provides improved masking performance, stronger encryption, the ability to call this native algorithm from inside an extended algorithm, and options for case sensitivity.
- New secure lookup algorithm supports case insensitive lookup so data values map consistently and case preservation so upper-case strings map to upper-case and lower-case strings map to lower-case.

Secure Lookup



Support for case insensitive lookup and preservation of cases

DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.

Extensible Connectors Permissions Change

- Our previous masking extensible connectors, supporting the ability to upload and use JDBC drivers, required that the permissions for each driver be enumerated at install time. We replaced this mechanism with a fixed security policy blocking only the most dangerous permissions (specifically those that could inflict harm to the masking engine), removing the need for user management of permissions.
- The engine administrator must still ensure that only trusted JDBC driver software is installed.

DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.

Central Management Connectivity Update

To simplify the customer onboarding process, we made a few changes to how the engines connect to Central Management.

- First, an engine will respect any configured proxy settings.
- Second, the engine will automatically route all traffic through api.delphix.com if direct access to our certificate management service (GoDaddy) is unavailable.

DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.

Certifications

The following certifications were completed through September.

- Virtualization
  - ASE for RHEL 8.1 & 8.2 (certified on 6.0.3.0+)
  - Oracle 19 for RHEL 8.0 (certified on 5.3.9.0 and 6.0.3.0+)
  - NFSv4 support for Db2 on AIX and SuSE
  - SQL Server Instances with a Managed Service Account
  - vFile support for RHEL 8.2

- Masking
  - SQL Server 2017 and 2019

DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.

Deprecations

The following features are deprecated as of 6.0.4 and will be removed in a future release:

- Virtualization:
  - HANA 1.0 Plugin - Delphix is adjusting its HANA 1.0 support to be in line with SAP's EoM schedule (May 2021).
  - EBS 12.1 Plugin - Delphix is adjusting its EBS 12.1 support to be in line with Oracle's EoPS schedule (December 2021)
- Masking:
  - Job Scheduler - The introduction of Masking's REST API several releases ago allowed you to schedule job executions using their preferred job scheduler. As a result, the integrated scheduler is seldom used. We plan to EOL this feature in the near future.
  - FTP, SFTP, and mount upload for XML and Cobol formats - FTP/SFTP/Mount-based format import were the original modes for XML and Cobol files. Since then, Delphix has added the ability to upload a format file, which is far simpler to set up. We've seen a dramatic shift away from the legacy import modes in favor of the simplicity of "upload".
  - Row Type Feature - Originally geared for limiting masking to subsets of rows within a column, this feature was seldomly used. Its functionality, if desired, can still be replicated via the Custom SQL feature.
  - Redundant Settings for 'Edit Table' under Rule Sets - Table Suffix, Add Column, Join Table, and List - These settings are redundant and can be replicated with the Custom SQL setting.
  - 'HAVING' clause from Masking API - Deprecating due to low use. If desired, this feature can be replicated with Custom SQL.

DELPHIX © 2020 Delphix. All Rights Reserved. Private and Confidential.