DELPHIX

Delphix 6.0

<Presenter> | January 22, 2020

Delphix Dynamic Data Platform: 6.0 New Features - High Level

Google Cloud Support

Delphix Dynamic Data Platform: 6.0 New Features - Technical

Masking NFS/CIFS Mount

Enhanced Elastic Networking Adapter (ENA) Support

Masking API Updates

Improved Upgrade Experience

Google Cloud Support

- With Delphix 6.0, we support Delphix running in GCP for existing supported masking and virtualization databases.
- Supported instances: n1-standard-32, n-standard-64, n1-standard-96, n1-highmem-32, n1-highmem-64, and n1-highmem-96
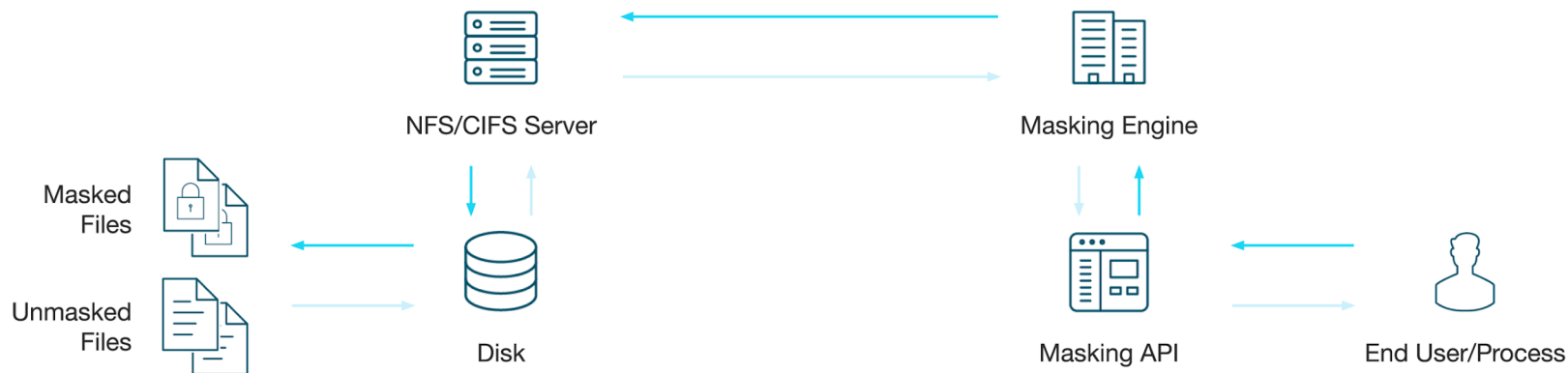
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Google Cloud

Masking NFS/CIFS Mount

- Enable direct mount and mask a file system over NFS and CIFS
- Simplifies the process of file masking versus old way via FTP/SFTP

NFS/CIFS File Masking

Enhanced Elastic Networking Adapter (ENA) Support

- Support networking on AWS instances with the Elastic Network Adapter (ENA)
- Key benefits of enhanced networking include:
  - Higher bandwidth
  - Higher packet per second (PPS) performance
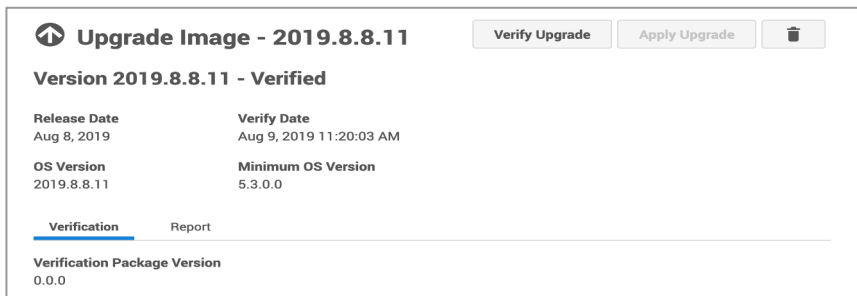 - Lower inter-instance latencies

Masking API Updates

- 6.0 introduces a variety of updates for existing endpoints:

    - Delete an application by ID

    - Endpoints moved from incubating to stable state

    - Use masking API client to retrieve endpoint list

    - Adds versioning for the masking API: Specify a version of the API to access historical functionality

Improved Upgrade Experience: User Experience

Small changes to version details

- "OS Version" will always be the same as version
- "Minimum OS Version" is the lowest running version that supports deferred upgrade.
- Verification package version is the version of verification checks bundled with this upgrade image

Deferred upgrade a UI option

- Default to deferred upgrade
- The other option is FULL upgrade
- Deferred upgrade will have zero VDB downtime.

Improved Upgrade Experience: User Experience

Refactor upgrade verification to conform to UX standards

- List Upgrade Checks in table structure similar to Faults and Alerts
- Reset of status is no longer supported from Web but is available from CLI
- Informational checks no longer have to be acknowledged

Display new information about verification processing

- List the full set of actions performed, and their duration

Improved Upgrade Experience: Multiple Upgrade Types

- ## Deferred Upgrade
  - If version is greater than "Minimum OS Version" then it is possible to do a Deferred upgrade
  - Requires no VDB downtime
- ## Full
  - If version is less than"Minimum OS Version" then a Full upgrade is the only option available
  - Requires VDB downtime
- ## Finish Deferred
  - After one or more Deferred upgrades, this upgrade type will appear on the latest running Deferred version

Improved Upgrade Experience: Verification Checks

- ## New upgrade checks have been implemented
  - MDS/ZFS consistency check
  - Domain0 > 90% storage check

- ## Stack startup verification
  - Runs after MDS migration and upgrade checks
  - Brings up MGMGMT service in a read-only mode, to verify that all stack initialization completes successfully

- ## Masking flyway migrations
  - Masking migrations are now performed alongside virtualization migrations, so masking flyway migration issues will be detected

Improved Upgrade Experience: Verification Changes

- ## Verification in Container
  - Verification is now run in an "nspawn" container

- ## In-Place verification
  - When the upgrade will NOT require a reboot, then we can upgrade "In-Place"
  - Will upgrade on top of the existing root file system
  - Take a snapshot of the root file system, and do the upgrade verification in a container that uses running root file system.

- ## Fresh (not-in-place) verification
  - When the upgrade will require a reboot, then we create a brand new root file system
  - The verification container will use the new file system as its root