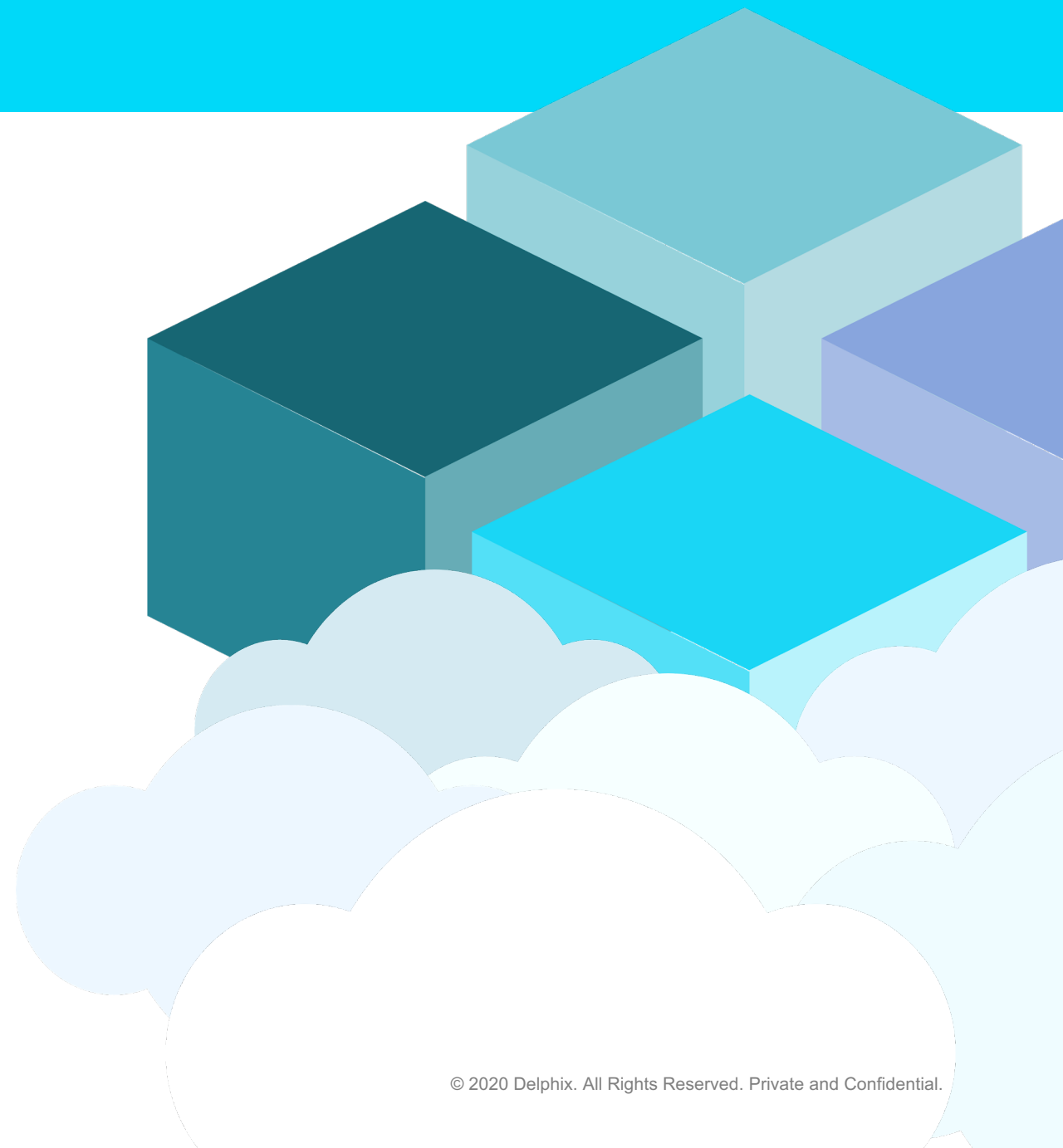


# Delphix – Upgrade and MT conversion

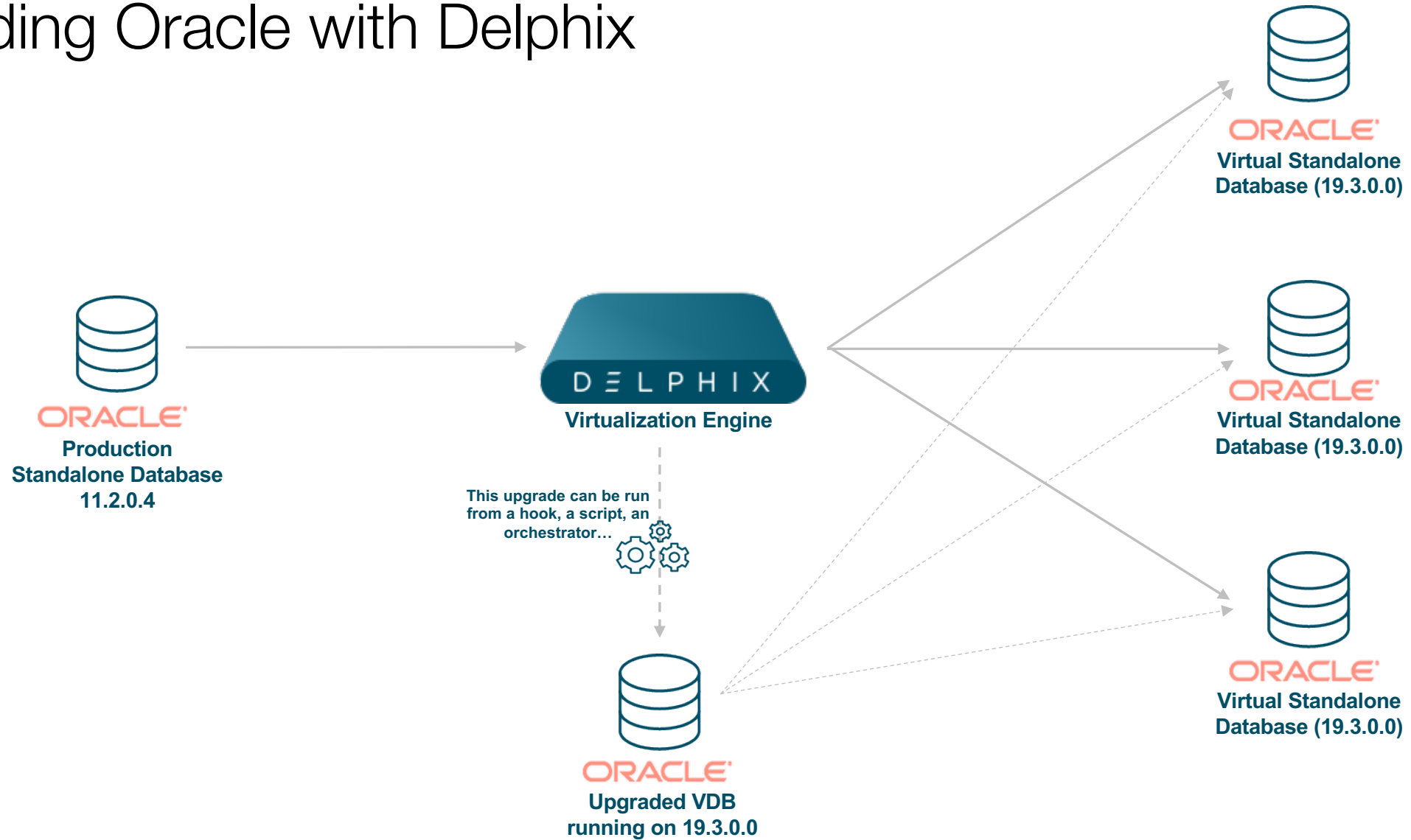
Diego Loureda – Director (Technical Services)



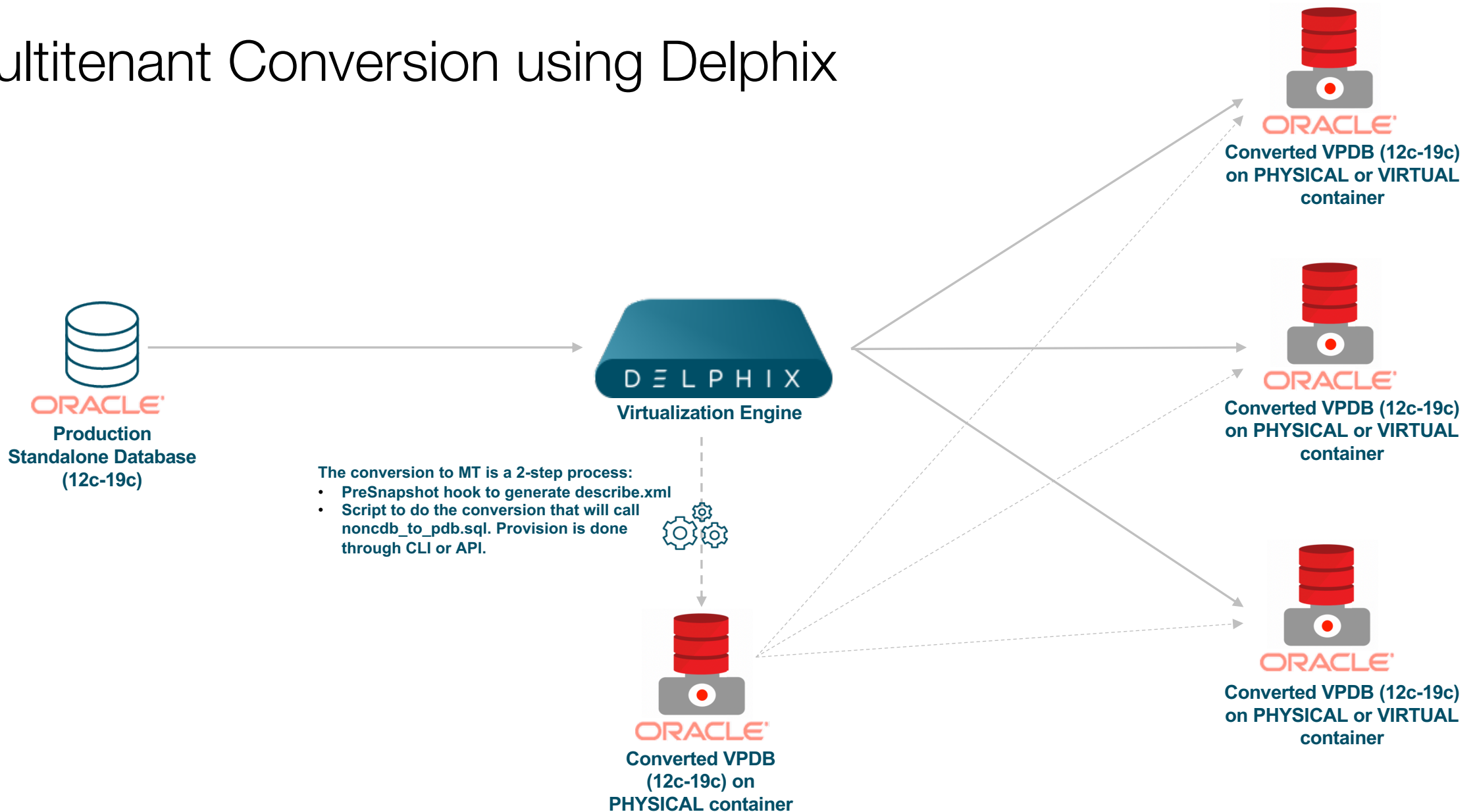
# Why upgrading and converting to MT using Delphix?

- Create lower environments in the latest Oracle Version and in Multitenant Architecture while production is still in previous version and in Standalone Architecture.
- Test that upgraded versions and Multitenant work with your application with latest production data
- Run workloads to detect optimizer changes
- Practice your upgrades and your conversion on virtual data to minimize issues and time on upgrade/conversion day
- Upgrades and conversion will be transparent to end users
- Converted/Upgraded VPDBs have all Delphix features: Self Service, Masking, CI/CD integration, etc.
- Perform all the tests above with minimal storage utilization

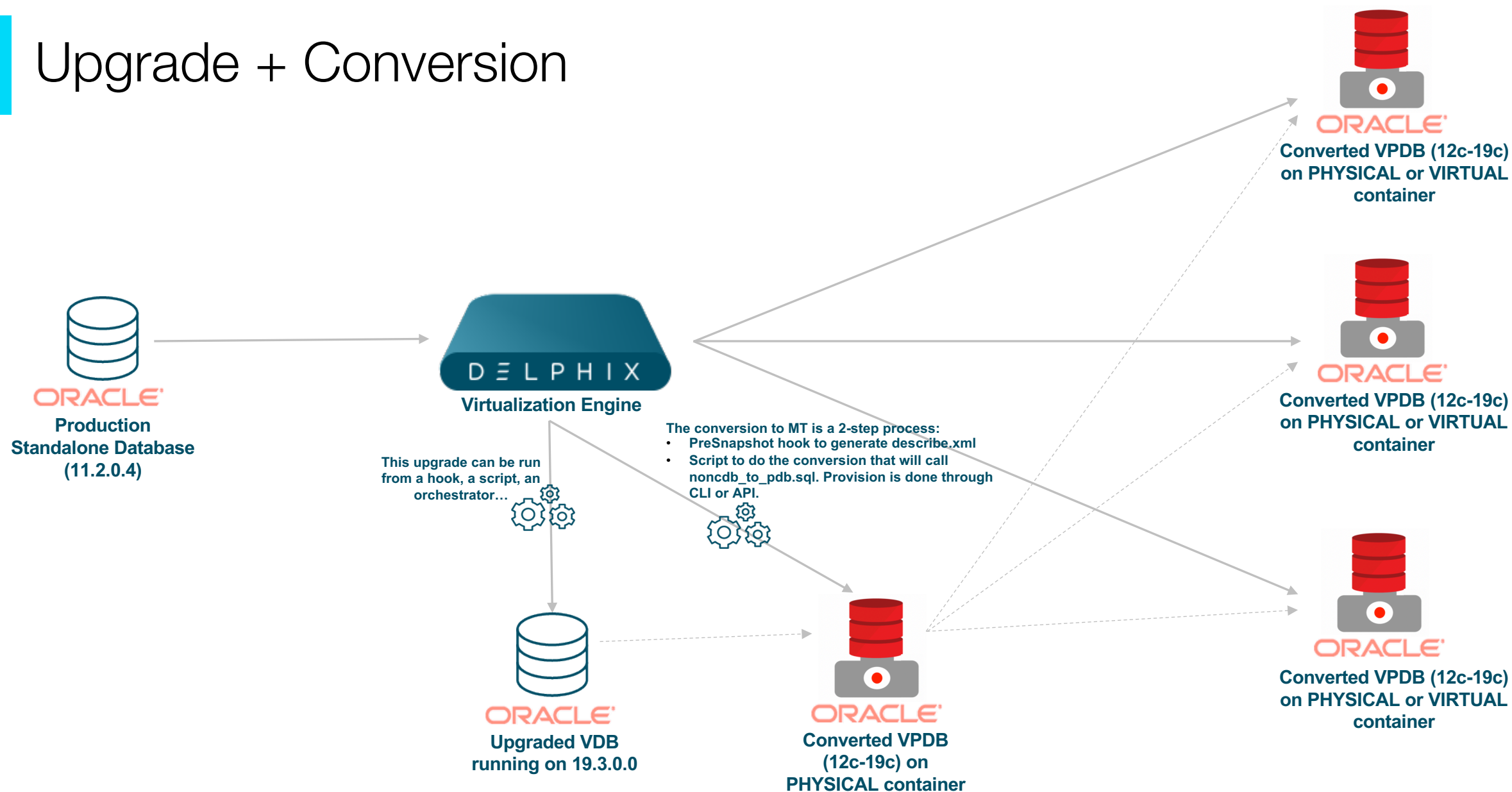
# Upgrading Oracle with Delphix



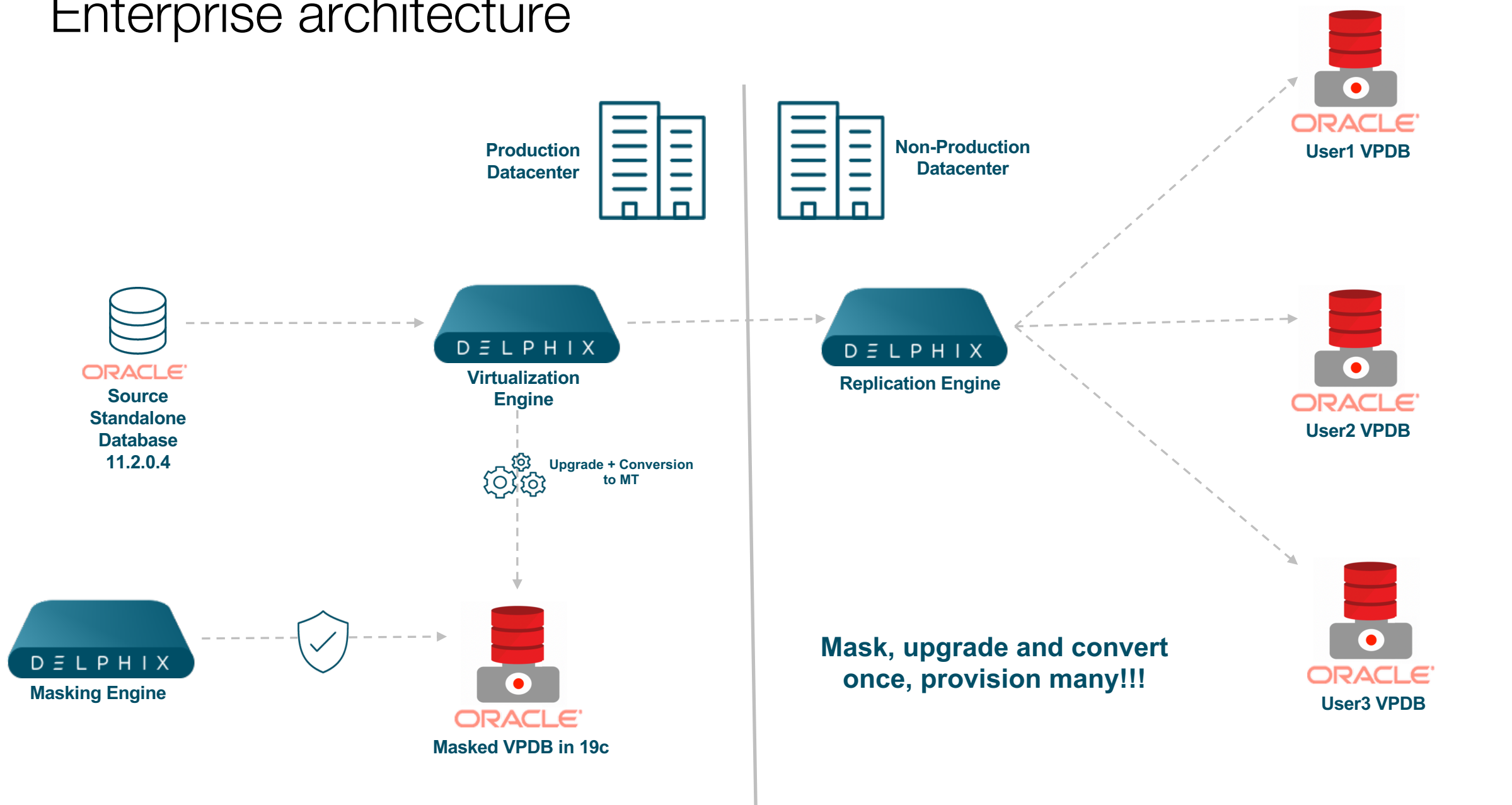
# Multitenant Conversion using Delphix



# Upgrade + Conversion



# Enterprise architecture



# Jenkins pipeline for upgrades and conversions

✓ Automated upgrade and architecture change to multitenant < 12 >

PipelineChangesTestsArtifacts

🔄⚙️🔗Logout✕

Branch: —

🕒 1h 2m 49s

No changes

Commit: —

🕒 an hour ago

Started by user delphix

Start

Provision VDB ✓

Clean oratab ✓

Upgrade to 19c ✓

Switch OH ✓

Add hook ✓

Fix Delphix user ✓

Run Snapsync ✓

Convert to MT ✓

Provision 3 VPDBs

VPDB1 ✓

VPDB2 ✓

VPDB3 ✓

Create template ✓

Create 3 containers

container1 ✓

container2 ✓

container3 ✓

End

Create 3 containers / container3 - <1s

🔗📄

✓ > sleep 5 — Shell Script

7s

✓ > SSH Steps: sshCommand - Execute command on remote node.

28s