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Multitenant i Oracle 12.2

"Always on, never stop"



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Oracle Multitenant: What's new in 12.2



Ease of Provisioning and Tenant Mobility

Hot Clone

Refresh Clone

PDB Relocate

Isolation with Economies of Scale

4k PDBs

Memory & IO Resource Mgt

Lockdown Profiles

Centralized Management of Application Tenants

Application Root

Application Container

Proxy PDB

Container Map



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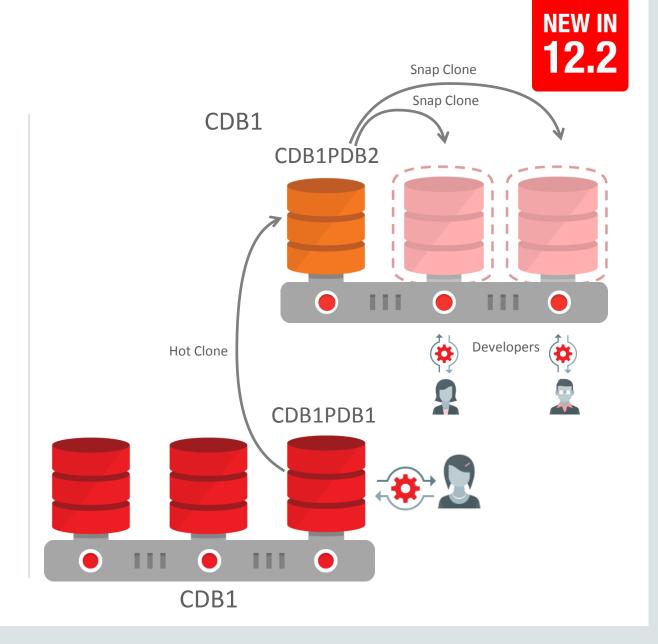
Demos

Multitenant in Oracle DB 12.2

- Demo 1
 - Cloning when Source in Read/Write mode
- Demo 2
 - Create a Refreshable clone
- Demo 3
 - Relocate PDB

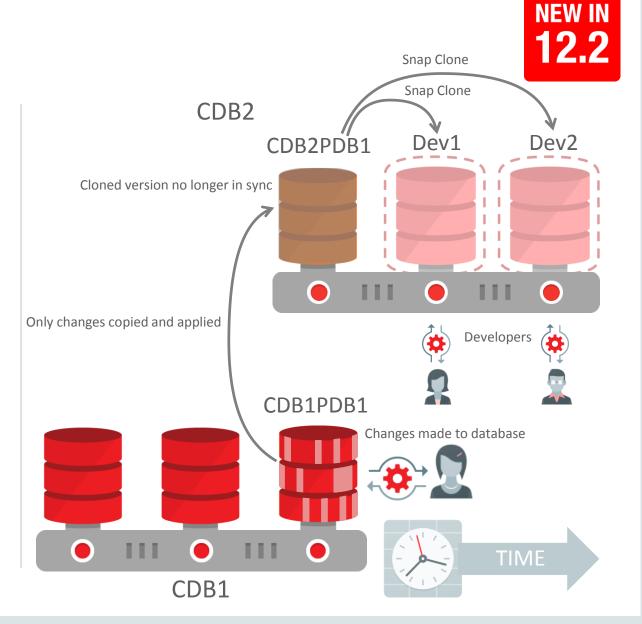
PDB Hot Clone

- PDB Hot Clone
 - Online test master instantiation



PDB Refresh

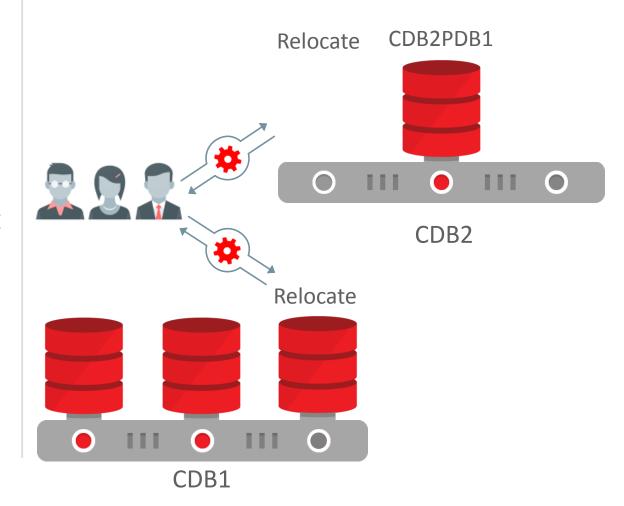
- PDB Hot Clone
 - Online test master instantiation
- PDB Refresh
 - Incremental refresh of clone with latest data



PDB Relocate



- PDB Hot Clone
 - Online test master instantiation
- PDB Refresh
 - Incremental refresh of clone with latest data
- PDB Relocate
 - Relocate with no downtime

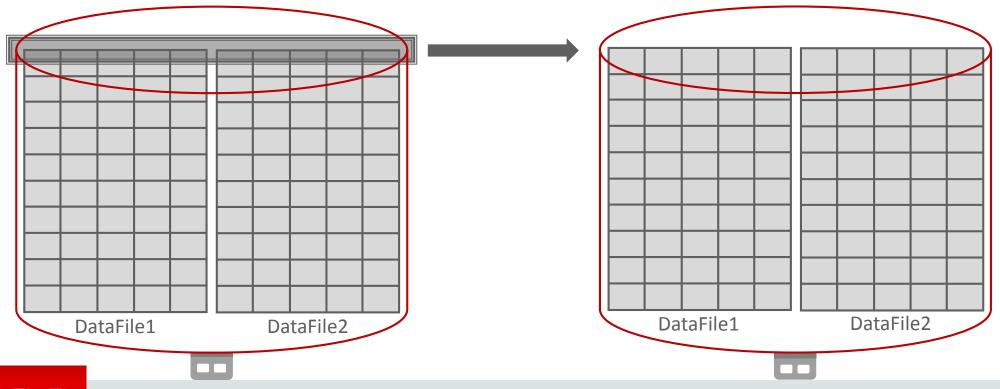




Cold Clone

12.1 capability requires outage in source PDB

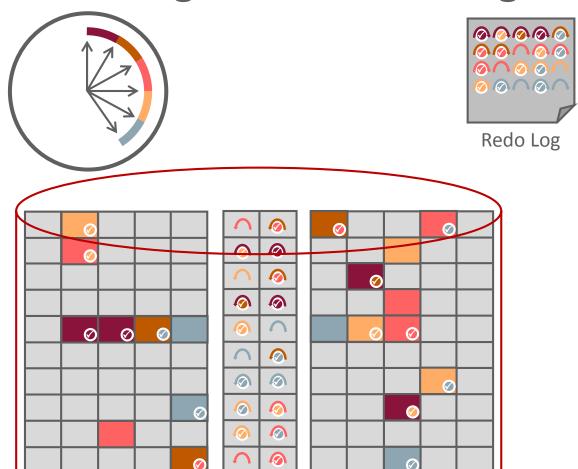
- Source PDB transitions to read-only
- Read and copy in parallel
- Open source database read-write when complete



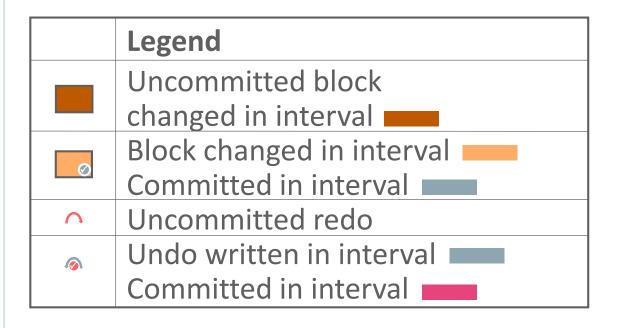


Modeling Database Changes Over Time

DataFile2



Undo



DataFile1

Hot Clone



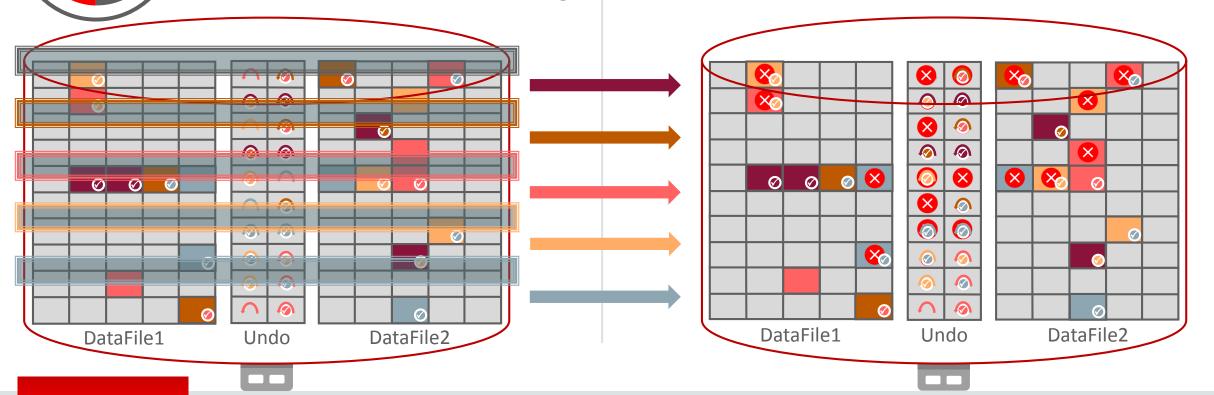
Redo Log

- Source PDB remains open read/write
- Read and copy in parallel
- On-going operations imply a "dirty read"
- Some data changes not included in initial file copy

NEW IN

12.2

- Ship and apply redo to catch up with source
- Apply undo to rollback uncommitted transactions





Integrated Cloud

Applications & Platform Services



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