Oracle Cloud: SaaS + PaaS + IaaS

Oracle on Oracle Cloud, why this decision matters



1 Exabyte+ Storage45 Billion+ Daily Transactions



27 Tier IV Data Centers All Geographies



70,000+ Companies52 Million+ Daily Users



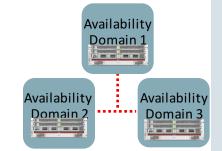
Overview

Oracle on Oracle Cloud, why this decision matters

- Oracle Cloud IaaS (compartments, network, engineered, security)
- Deployment Targets (Express, VM, Bare Metal, Engineered)
- RAC & DG (Local vs AD failover, Enterprise HA vs Storage Replication)
- Multitenant (Cost, Agility, Dev-Test, ISV ready)
- Developer LCM (iBackup, Test Master, Masking, Snapshot, Cloning)
- Online Maintenance (RAG and DG online patch/upgrade, Multitenant)
- Data Management Platform (Big Data, Big Data SQL, NoSQL, Oracle)
- Hybrid Automation and Operations (Cloud Machines, EM, Multitenant)
- CI/CD pipeline integration (Developer CS, App Container CS, Java CS)

Re-Thinking laaS in the Cloud

Enterprise requirements, Oracle on Oracle Cloud IaaS matters



- Cloud Native built for the scale-out web application, variable workloads
- Enterprise systems of record, consistent performance, data security, governance & control, steady state workloads with business critical management and oversight
- Re-Thinking laaS Cloud for Enterprise
 - Classic cloud elasticity, reliability, cost effectiveness AND
 - Not shared, but completely isolated and dedicated laaS resources for each tenant Predictable
 - No restrictions tied to virtualization technology VMWare, KVM, etc
 - Native role based access management & sub-account billing Compartments
 - Engineered for specific workloads e.g. Database Software in silicon, Query & Storage Offloading

Service Choice of Deployment Target

Requirements driven, cost optimized, Oracle on Oracle Cloud true pay per use

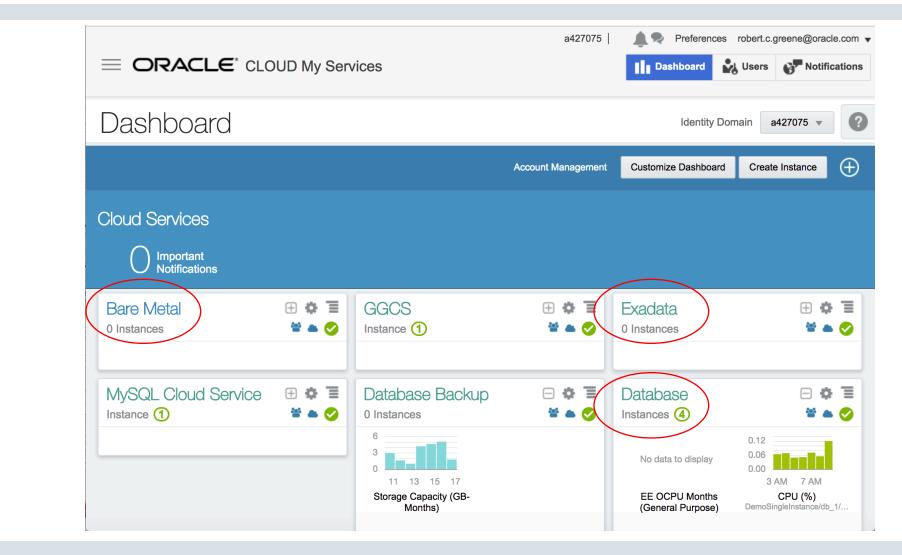






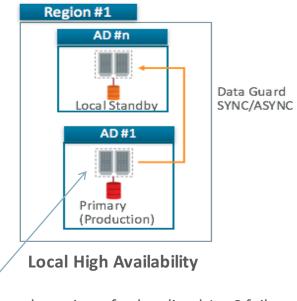


	Exadata Express	Database - EC	Database - BM	Exadata
Editions	EE	SE2, EE, HP, EP	SE2, EE, HP, EP	EP
Implementation	1 Dedicated PDB	1 Dedicated CDB	1+ Dedicated DBs	1+ Dedicated DBs
Management	Oracle	Customer	Customer	Customer
Max DB size	20GB, 50GB, 50IM	50GB - 11.2TB	4.2TB - 9.6TB	42TB – Petabytes
CPU range	~1	1 – 24	2 – 36	16 – 100's
Storage	Exadata,Flash:Fixed	Block: Elastic per GB	Local NVMe:Fixed	Exadata,Flash:Fixed
	Shared	Dedicated Virtualized	Dedicated Bare Metal	Engineered

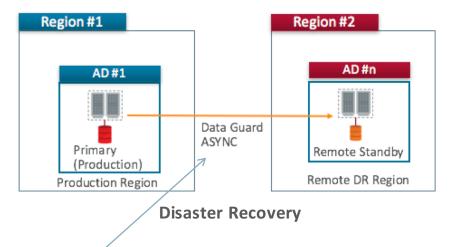


HA and DR in a Cloud IaaS

Enterprise availability, Oracle on Oracle Cloud proven best practices

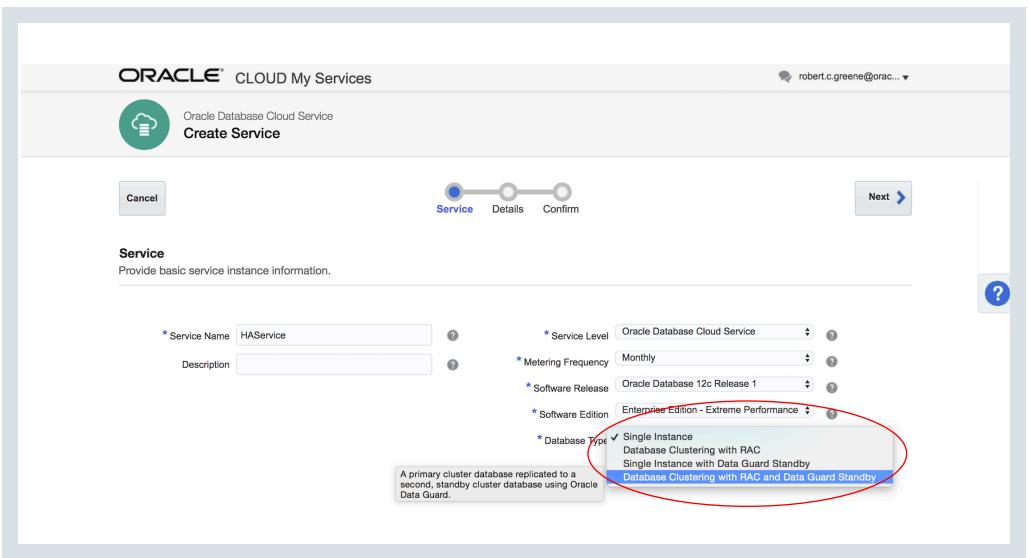


RAC - Zero downtime for localized IaaS failures



Data Guard – database aware, high speed replication

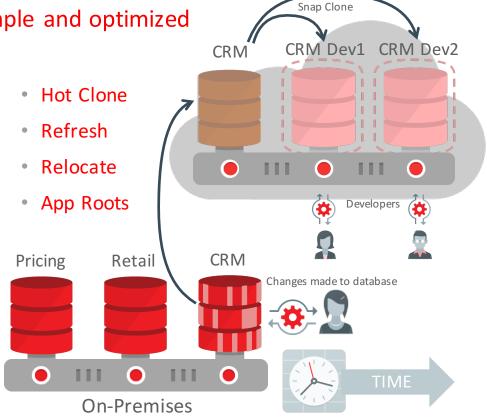
- No block agnostic replication
- No data corruption replicated to standby
- Optimized network I/O transfer



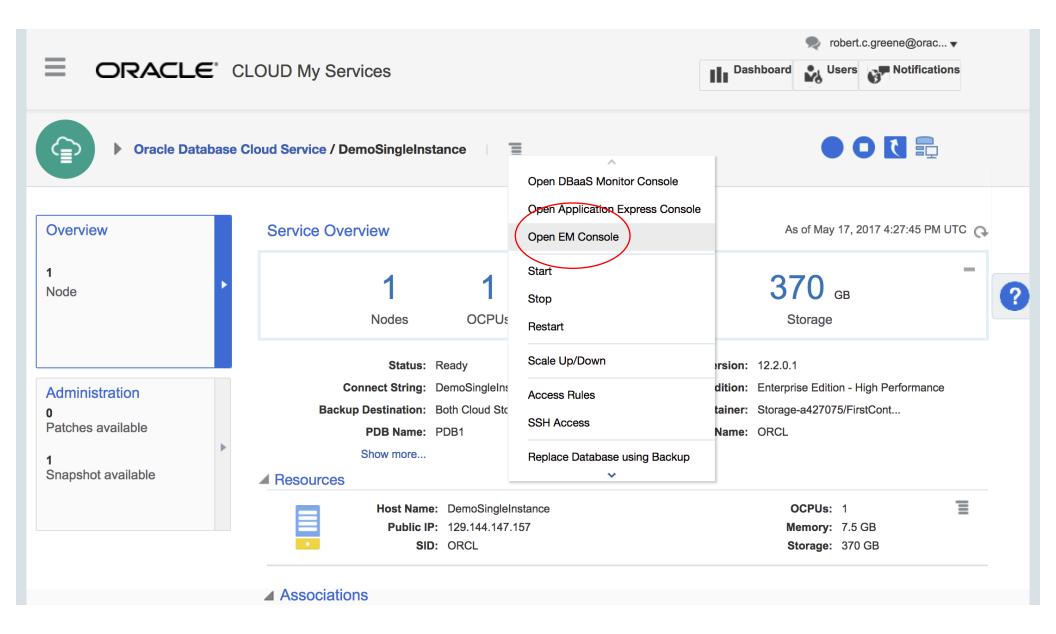
Containerization for the Database

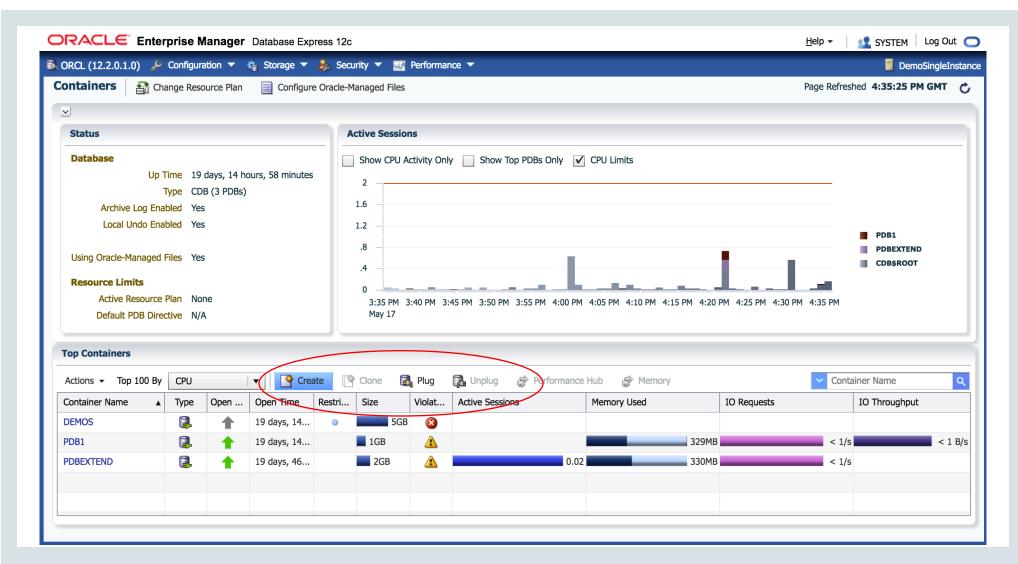
Multitenant, Oracle on Oracle Cloud agile, simple and optimized

- Costs less
- ISV Ready
- Dev-Test efficient
- Agility of Docker for Database
- Ultimate consolidation platform



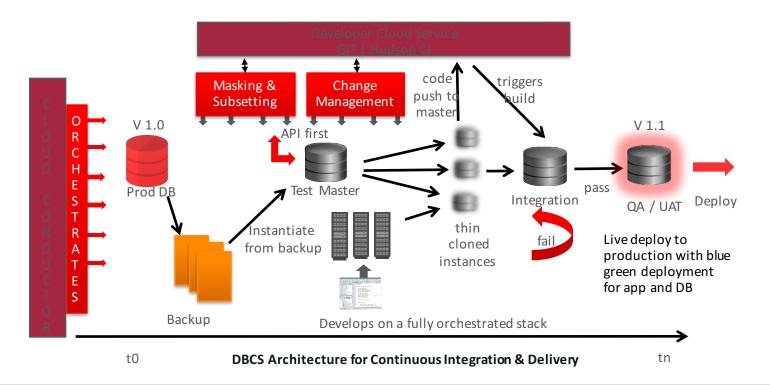
Snap Clone



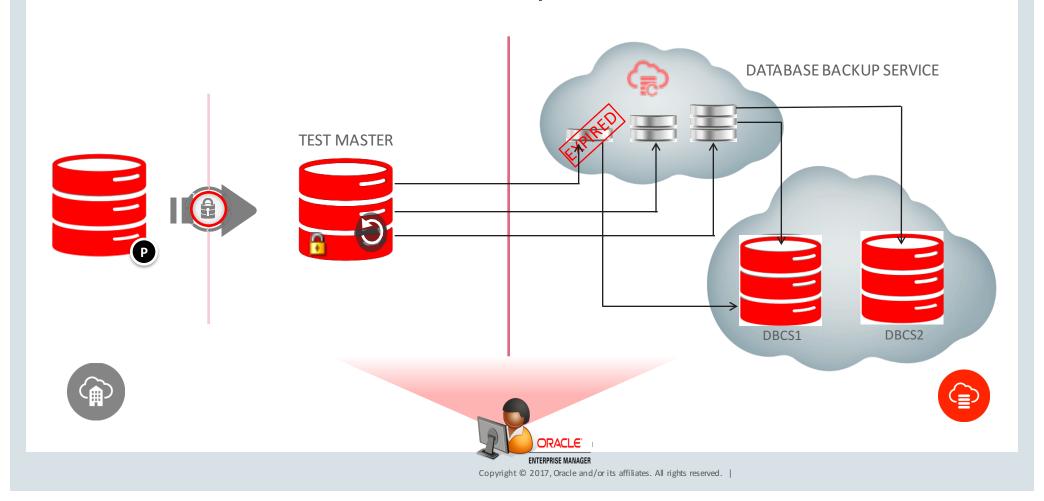


Agile Development for Database apps

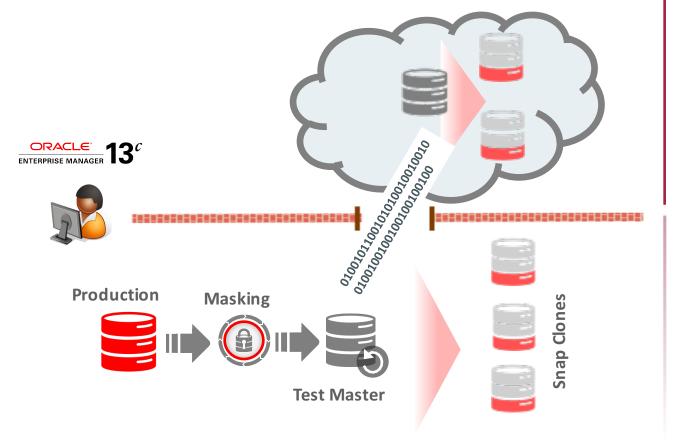
Complete dev-test LCM, Oracle on Oracle Cloud makes CI/CD easy



Data Refresh on PaaS from On-premises Production



Data Cloning & Refresh for DevOps



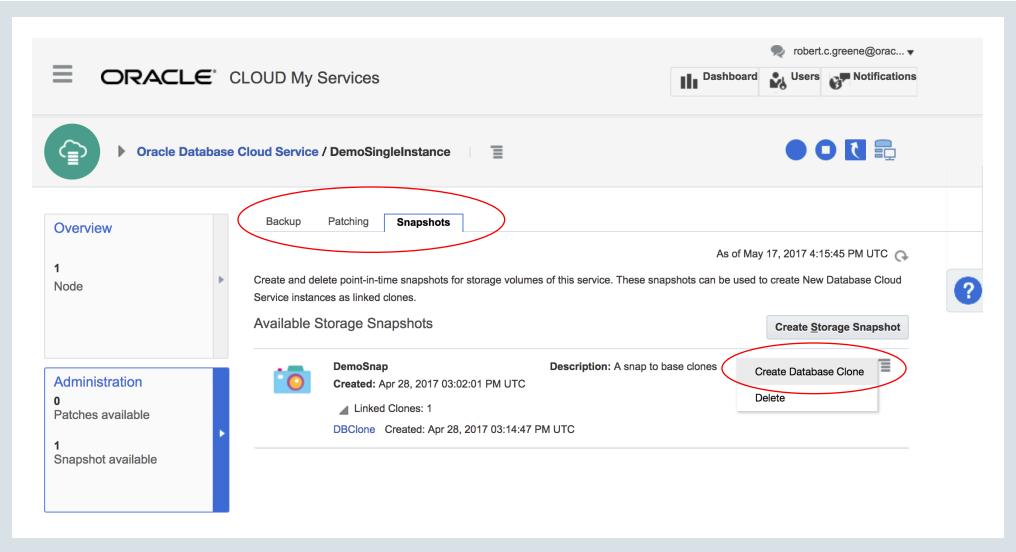


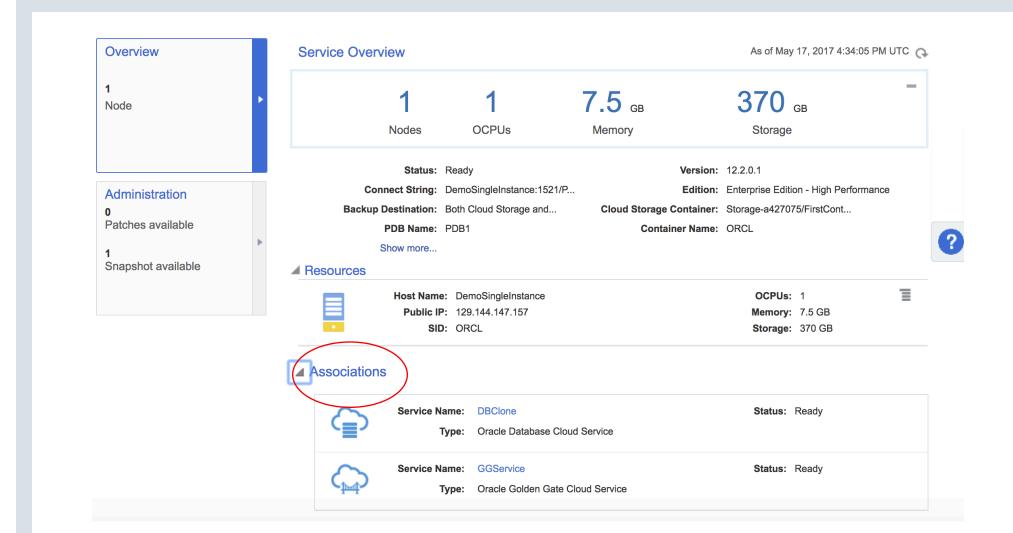
49 clones/month

60X faster with **180TB** savings over EMC



60,000 refreshes per year supporting DevOps for **2000+** Developers

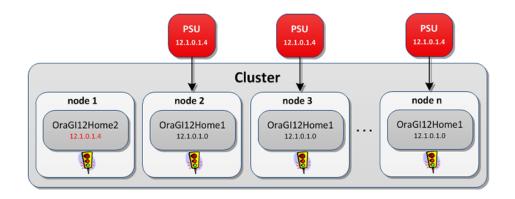


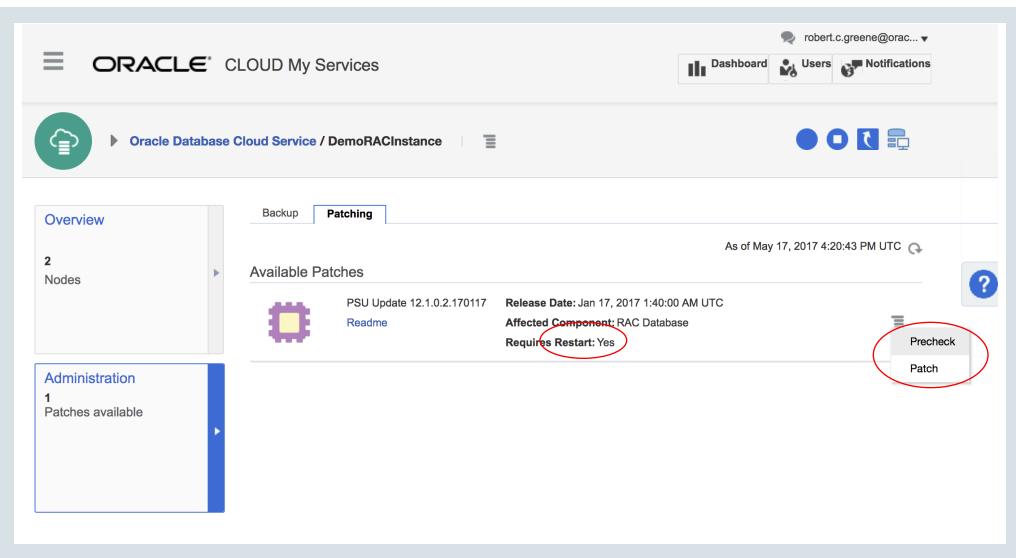


Online maintenance for elevated SLAs

Rolling patching, self managed containers, Oracle on Oracle Cloud provides best up time

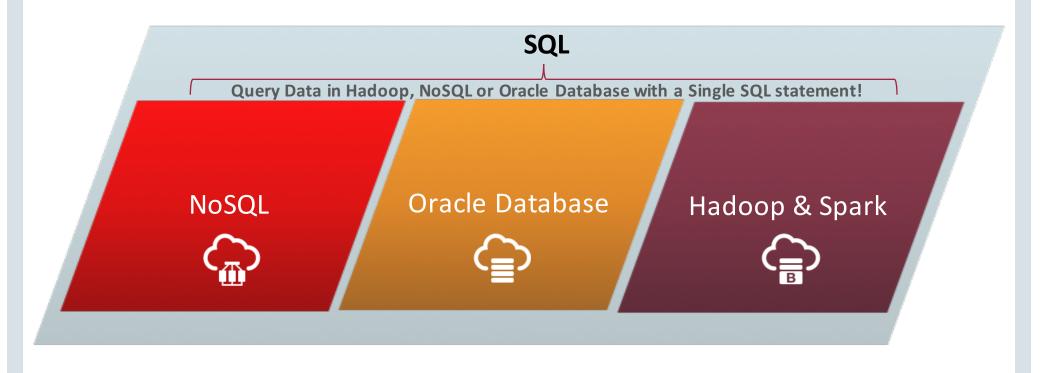
- Oracle 12.2 Grid Infrastructure online patching
- RAC rolling patch automation
- Data Guard rolling patch automation
- Multitenant CDB with online PDB relocate

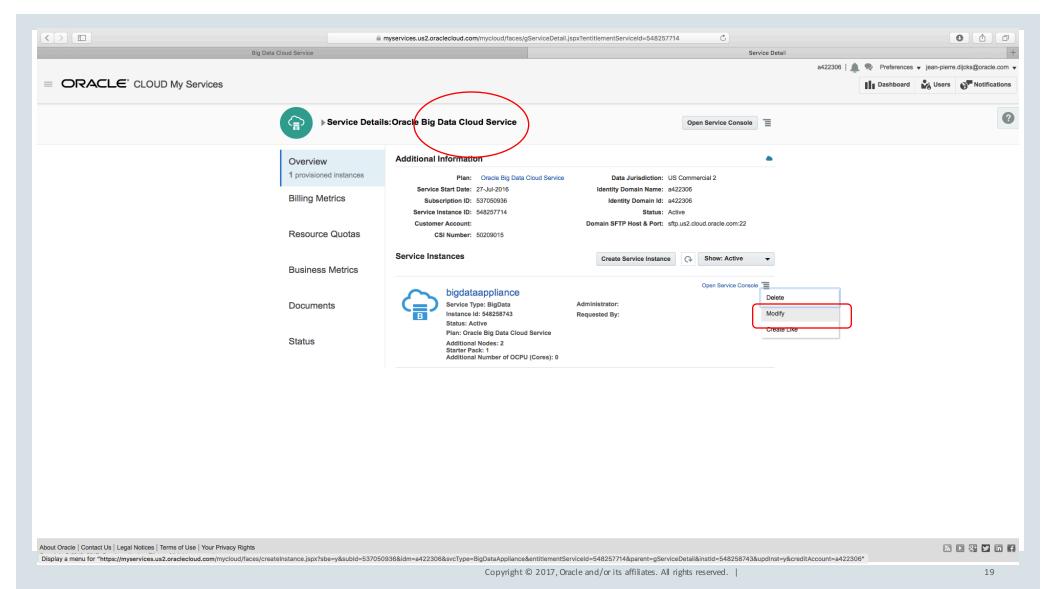


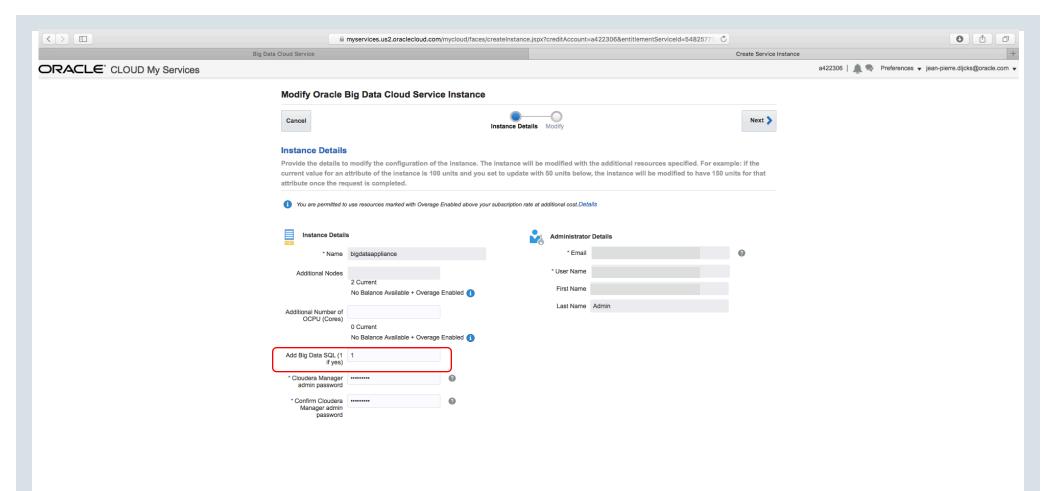


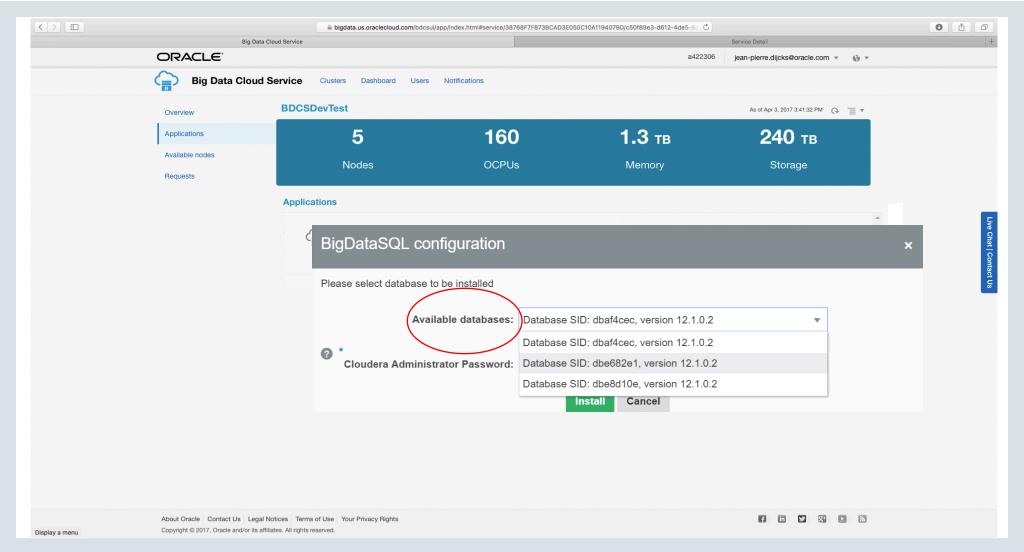
Oracle Cloud Data Management Platform

Any data type, any workload, any scale – Oracle on Oracle Cloud simplifies modern apps





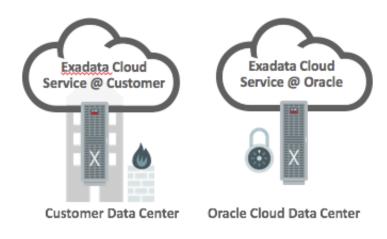




Hybrid Cloud that works

Cloud @ Customer, Oracle on Oracle Cloud even behind your firewall

- EM Cloud Control
 - Single pane of glass
- Same DBCS and ExaCS deployments
 - On-premises behind your firewall
- Same web console, REST API's
- Same pay-per-use subscriptions
- Same minimum cores for ExaCM
- Oracle Multitenant portability: Dev-Test

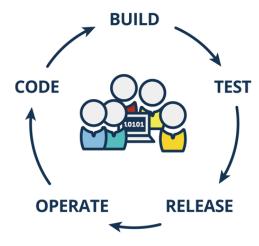


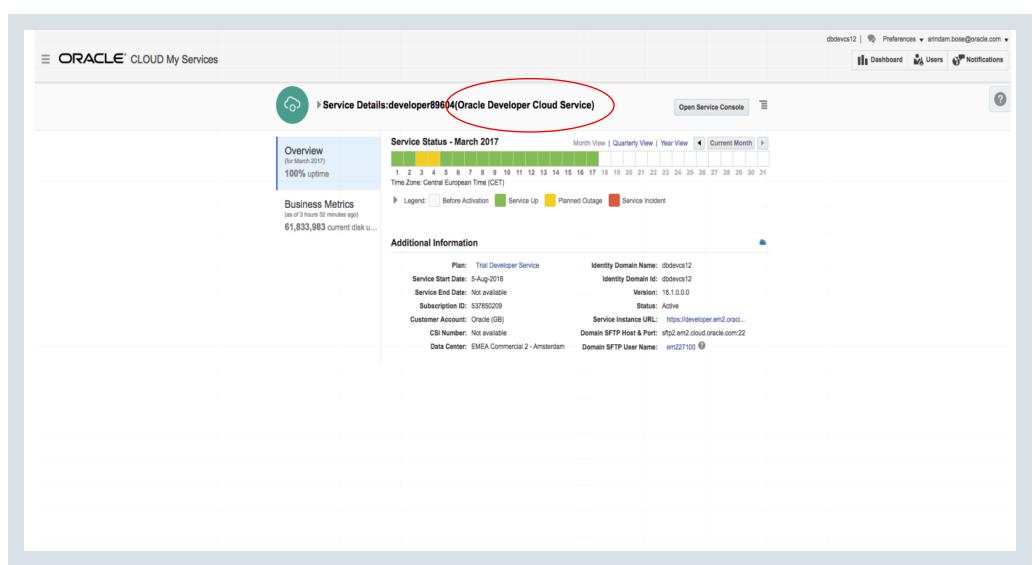
Same architecture, software, skills!

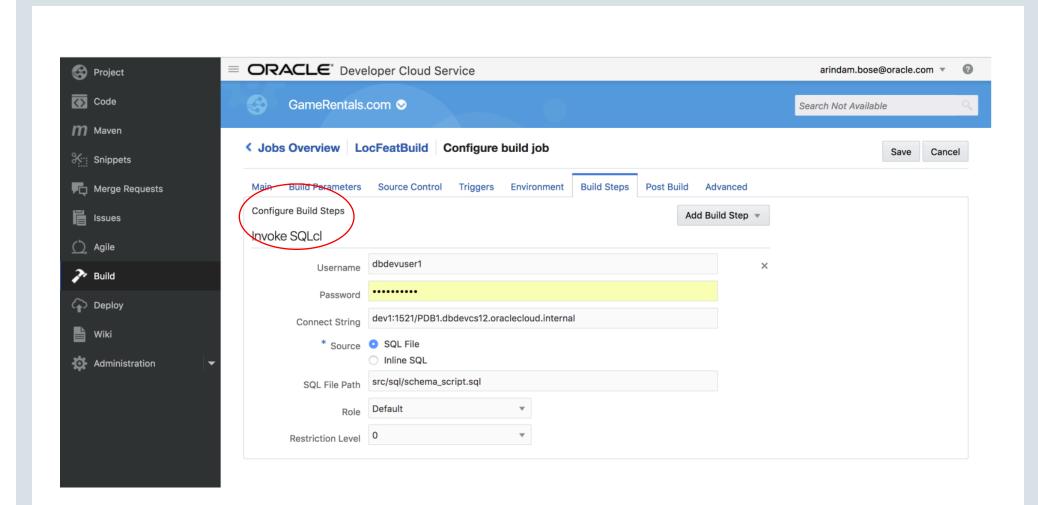
Development Process simplification

Cloud services support CI/CD, Oracle on Oracle Cloud makes agile development easier

- Developer Cloud Service target
 - Git, JIRA, Hudsen, Netbeans/Eclipse
- Test Master LCM
- Post commit SQL artifact versioning
- Full Stack Orchestration
- Schema update before test regression







The Oracle Database PaaS advantage

Database PaaS capabilities found only in Oracle on Oracle Cloud

- RAC & ADG
- Multitenant
- In-Memory
- RAT
- EM Grid Cntrl

- ASM
- DB Vault
- Label Security
- Spatial & Property Graph
- More: Streams, Java, Locator, etc

Oracle Database Continuously Innovates

Adds state-of-the-art technology while preserving customer investments



Client-Server

Row Locking
Stored Procedures
Partitioning
Parallel Query
User Defined Types



Internet

Real Application Clusters
Data Guard
Recovery Manager
Java, XML
Exadata



Cloud

Multitenant
Big Data SQL
In-Memory
Sharding
JSON

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