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- Oracle Enterprise Manager 13c
- Pivot to Database as a Service
- Cloud Management Pack Overview
- Demonstration
- Business Value
- 6 Q&A

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## Oracle Enterprise Manager

**Integrated Lifecycle Management** 



**Discover & Monitor** 



Compliance



Manage & Administer



**Automation** 





**Notification & Alerts** 



Credentials & RBAC











Database Appliance (ODA)\*



Database Cloud (DBaaS) \*\*

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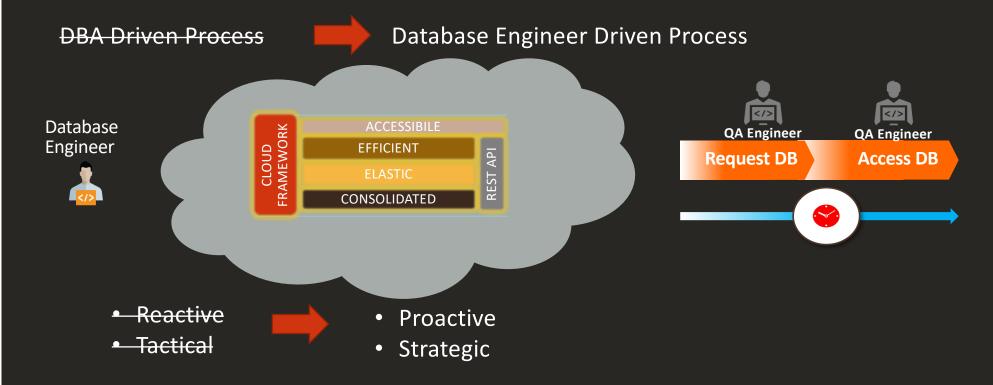
## Database Provisioning

**DBA Driven Process** 



- Reactive
- Tactical

## Self Service Database Provisioning



### Database as a Service : Key Use Cases

A Developer or a Project Owner requiring a new database service with or without seed data

QA Engineer requiring a full database refresh for intense load testing

QA Engineer requiring to create multiple clones for functional testing on subset of data

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### Database as a Service with EM

Consolidation, Elasticity & Accessibility

#### Self Service

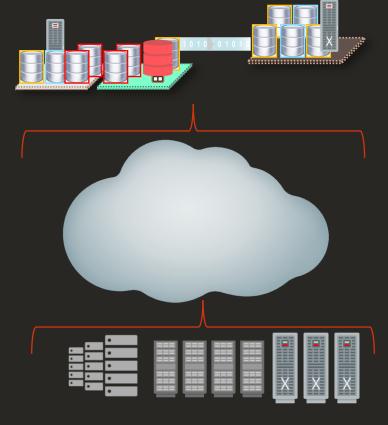
Serve the infrastructure requests from users directly. Provide optimized performance based on service levels. Meter Usage. Standardize deployments, Reduce maintenance.

#### **Auto Scaling**

CPU and Memory On-Demand. Partition into Zones and Pools for High availability. On demand scale up, scale down and relocation.

#### Consolidation

Consolidate the compute & storage to maximize utilization. Include any general purpose h/w, engineered systems, and even virtual machines.



Database as a Service Layer

> Cloud abstraction Layer

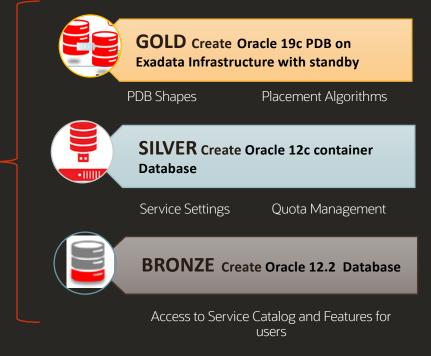
Base Infrastructure Laver

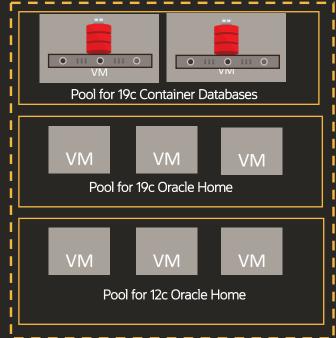
On Premise - Physical, Virtual, or Engineered Systems



### Database as a Service: How to Set Up







Self Service Portal (REST API)

Service Catalog

PaaS Infrastructure Zone

**Database Engineer** 

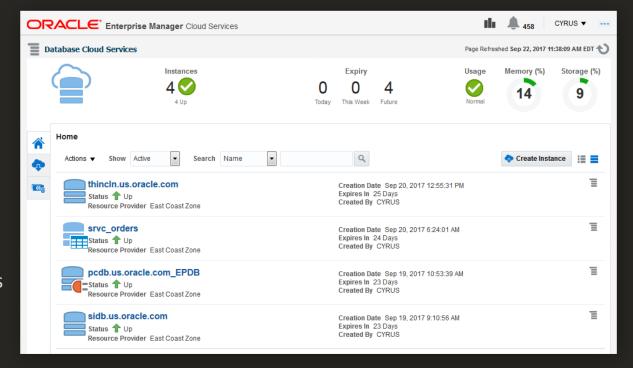


### **Database as a Service : Self Service Portal**

**Unified Provisioning** 

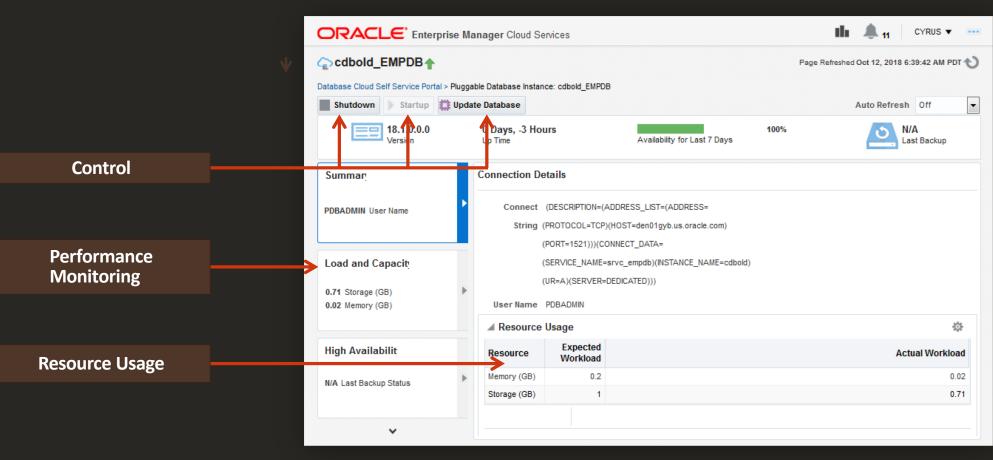
### **Provision**

- Non-Container DB
- Non-Container DB Clone
- Container DB
- Empty PDB
- PDB with Schema
- PDB using SSA user data profiles





### Self Service Portal: PDB Management



### Database as a Service: Snap Clone

#### Rapid Cloning

• Minutes to provision a 1 TB database

#### Space Efficient

• Over 95% storage savings

#### Powerful Storage

• Supports ZFS snapshots and Exadata sparse clones

#### Integrated DB Lifecycle Mgmt.

• Lineage and Association

#### Data Management

- Masking, subsetting
- Continuous refresh

Support for Administrator and Self Service User workflows



**Create Test Master** 



**Provision Thin Clones** 

Functional Copies
User can create
additional copies
for functional
testing without

Production DB

**Testmaster with Masking & Sub-setting** 



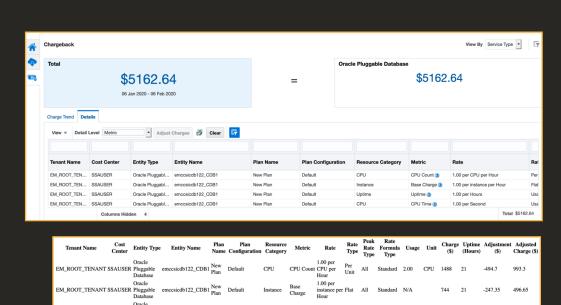
## Self Service Portal: Chargeback/Showback

EM\_ROOT\_TENANT SSAUSER Pluggable
Database
Oracle
EM ROOT\_TENANT SSAUSER Pluggable

EM\_ROOT\_TENANT SSAUSER Pluggable Database

Monitor Resource Usage for Self Service User

- Flexible Charge Plans
- Self Service Portal View
- Reports by Cost Center / Department



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### **Fleet-wide Database Automation**

- · On-demand database provisioning
- · On-demand database patching
- Standardization for compliance

**Solution**: Enterprise Manager

### **Minutes**

Down from 2-3 months for provisioning

### 2100

Databases patched automatically

### Reduced

Database maintenance downtime

# Pique Solutions Report Findings

- Dramatic increase in DBA and IT staff productivity
- Quantifiable cost reduction and cost avoidance
- > Increase in business agility
- Solution for monitoring and managing both on-premises and cloud deployments
- > Improved security posture
- A dynamic shift: reactive to proactive IT processes

https://blogs.oracle.com/oem/ the-roi-for-investing-in-database-lifecycle-management

#### PIQUE SOLUTIONS

The Value of Oracle Enterprise Manager for Managing Oracle Databases

PIQUE SOLUTIONS

February 2020

THE DEVELOPMENT OF THIS WHITE PAPER WAS SPONSORED BY ORACLE, BUT THE UNDERLYING RESEARCH AND ANALYSIS WERE EXECUTED INDEPENDENTLY BY PIQUE SOLUTIONS.

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### Q & A

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Webcasts and Workshops: oracle.com/corporate/events/ enterprise-manager-webcast-series.html

Blogs: <a href="https://blogs.oracle.com/oem/">https://blogs.oracle.com/oem/</a>





### Additional Resources



- Enterprise Manager Page on Oracle.com
- Database Lifecycle Management on OTN
- Database as a Service Page on OTN

#### Join the Conversation

- Twitter.com/oracle\_mgmt
- youtube.com/c/OracleManagementCloud/
- Blogs.Oracle.com/OEM

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