Speed Development With Self-Service Database Provisioning

Oracle Enterprise Manager
Cloud Management Pack

Mike Meyers
Master Principal Security and Management Platform Specialist

Timothy Mooney
Product Marketing Director

oracle.com/corporate/events/enterprise-manager-webcast-series.html
Speed Development With Self-Service Database Provisioning

Oracle Enterprise Manager
Cloud Management Pack

Mike Meyers
Master Principal Security and Management Platform Specialist

Timothy Mooney
Product Marketing Director

oracle.com/corporate/events-enterprise-manager-webcast-series.html
The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle’s products may change and remains at the sole discretion of Oracle Corporation.

Statements in this presentation relating to Oracle’s future plans, expectations, beliefs, intentions and prospects are “forward-looking statements” and are subject to material risks and uncertainties. A detailed discussion of these factors and other risks that affect our business is contained in Oracle’s Securities and Exchange Commission (SEC) filings, including our most recent reports on Form 10-K and Form 10-Q under the heading “Risk Factors.” These filings are available on the SEC’s website or on Oracle’s website at http://www.oracle.com/investor. All information in this presentation is current as of September 2020 and Oracle undertakes no duty to update any statement in light of new information or future events.
Program Agenda

1. Oracle Enterprise Manager 13c
2. Pivot to Database as a Service
3. Cloud Management Pack Overview
4. Demonstration
5. Business Value
6. Q&A
Program Agenda

1. Oracle Enterprise Manager 13c
2. Pivot to Database as a Service
3. Cloud Management Pack Overview
4. Demonstration
5. Business Value
6. Q&A
Program Agenda

1. Oracle Enterprise Manager 13c
2. Pivot to Database as a Service
3. Cloud Management Pack Overview
4. Demonstration
5. Business Value
6. Q&A
Database Provisioning

DBA Driven Process

- Reactive
- Tactical
Self Service Database Provisioning

DBA Driven Process → Database Engineer Driven Process

- Reactive
- Tactical

- Proactive
- Strategic

Database Engineer

QA Engineer

QA Engineer

Request DB → Access DB

CLOUD FRAMEWORK
ACCESSIBLE
EFFICIENT
ELASTIC
CONSOLIDATED

REST API

Copyright © 2020 Oracle and/or its affiliates.
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
Program Agenda

1. Oracle Enterprise Manager 13c
2. Pivot to Database as a Service
3. Cloud Management Pack Overview
4. Demonstration
5. Business Value
6. Q&A
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: How to Set Up

**GOLD** Create Oracle 19c PDB on Exadata Infrastructure with standby

**SILVER** Create Oracle 12c container Database

**BRONZE** Create Oracle 12.2 Database

Service Catalog

Self Service Portal (REST API)

PaaS Infrastructure Zone

Database Engineer

Pool for 19c Container Databases

Pool for 19c Oracle Home

Pool for 12c Oracle Home

VM

Copyright © 2020 Oracle and/or its affiliates.
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

Control

Performance Monitoring

Resource Usage
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

Production DB

Create Test Master

Provision Thin Clones

Testmaster with Masking & Sub-setting

Functional Copies
User can create additional copies for functional testing without consuming space
Self Service Portal: Chargeback/Showback

Monitor Resource Usage for Self Service User

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

1. Oracle Enterprise Manager 13c
2. Pivot to Database as a Service
3. Cloud Management Pack Overview
4. Demonstration
5. Business Value
6. Q&A
Program Agenda

1. Oracle Enterprise Manager 13c
2. Pivot to Database as a Service
3. Cloud Management Pack Overview
4. Demonstration
5. Business Value
6. Q&A
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

Program Agenda

1. Oracle Enterprise Manager 13c
2. Pivot to Database as a Service
3. Cloud Management Pack Overview
4. Demonstration
5. Business Value
6. Q&A
Q & A

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

Blogs: https://blogs.oracle.com/oem/
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
Thank You