ORACLE

Oracle Cloud Management Pack For Oracle Database

Oracle Enterprise Manager provides a single pane of glass for management of Oracle environments, whether in customer data centers or Oracle Cloud. Through deep integration into Oracle's product stack, Enterprise Manager provides market-leading management and automation for Oracle engineered systems, databases, middleware, and hardware.

The Cloud Management Pack for Oracle Databases delivers a comprehensive solution that help database, system and application administrators to

- publish a pre-approved catalog of services
- establish standards across a data center
- ensure compliance with corporate standards
- manage IT resources centrally
- reduce storage costs

DATABASE AS A SERVICE (DBaaS)

Database as a Service brings consolidation, accessibility, elasticity, resource management, chargeback, and manageability to enterprise database administration. Cloud Management Pack for Oracle Database delivers capabilities spanning the entire database lifecycle. Cloud administrators can set up the Self-Service Portal to identify pooled resources, configure role-based access, define service catalogs, and configure chargeback plans.

The out-of-box, self-service portal allows users to request various kinds of database services and perform lifecycle operations on them such as start/stop, backup, patch, and health monitoring. It also provides capabilities for users to scale-up and down instances to adapt to changes in application traffic. Both administrators and self-service consumers can keep real-time tracking for the cost of services utilized and establish accountability

DATABASE CONSOLIDATION

The Cloud Management Pack supports multiple consolidation models for pooling database resources. The Pack offers administrators the ability to consolidate the underlying infrastructure with server virtualization technologies or perform database level consolidation by implementing Real Application Clusters (RAC), or make use of the Database Multitenant option to consolidate workloads using pluggable databases.

FLEXIBLE DBaaS PLATFORM OPTIONS

Oracle Enterprise Manager's DBaaS solution is a platform-agnostic solution that can run on any infrastructure - commodity hardware, virtual machines, or engineered system depending on the business and IT requirements.

DBaaS FOR MULTITENANT DATABASES

Multitenant Architecture provides high consolidation density, brings agility and simple administration by managing many-as-one. The Cloud Management Pack DBaaS provides end to end lifecycle management of Container and Pluggable database(s) as self-service operations. Self-Service users perform operations such as provisioning, patching and upgrade.

To ease the adoption of DBaaS for an existing Oracle Multitenant environment, the self-service administrator can onboard existing CDB/PDB instances as self-service managed DBaaS instances. Additionally, with an instance relocation feature, migration

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THE COMPLETE SOLUTION FOR DATABASE CLOUD MANAGEMENT

KEY FEATURES

Works with all currently supported databases, including Oracle Database 19c

Manage Oracle Multitenant databases

Out-of-the-box Self Service Portal & Service Catalog

Automation via RESTful APIs and Command Line Interface

Onboarding existing databases onto DBaaS.

Fleet Maintenance for patching and upgrades

Snap (Thin) and Full Clones with Integrated Data Masking

Automated Data Refresh maintaining sync with Production.

Metering, Show back and Chargeback

of instances is available as an out of box feature. Pluggable database relocation can be further optimized with unplug/plug operation.

RICH SERVICE CATALOGS

The Cloud Management Pack provides a rich catalog of services and self-service features that help end-users find and deploy approved DBaaS configurations with ease while ensuring compliance with corporate standards.

With Service Catalog, administrators can control DBaaS services and versions available for a user, the configuration of services and the permissions for an individual, group, department or cost center.

The role-based service catalog is accessible via an out-of-box self-service portal or can be orchestrated via RESTful APIs.
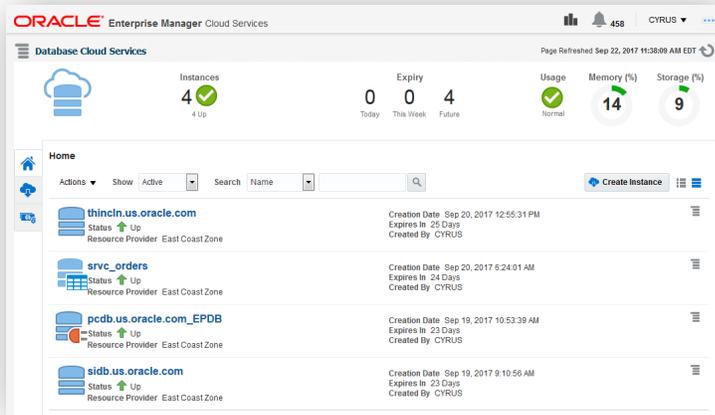
HYBRID DBAAS FOR MUTITENANT DATABASES

The Service Catalog supports on-premises, Oracle Cloud Infrastructure and multi-cloud deployments. If you are looking for a single pane of glass to create and manage pluggable databases running in an on-premises data center, Oracle Cloud Infrastructure or on virtual machines in any other cloud, you can do so with the unified user interface in the Cloud Management Pack.

## DATA ON DEMAND: ADVANCED CLONING AUTOMATION

The Cloud Management Pack provides complete automation for data cloning and the "copy data management" solutions, including the Snap Clone and the full clone of databases, that supports a wide range of activities for DBAs and end-users, from performance testing to functional testing. Administrators can manage the complete life cycle of the source data including capturing data on demand as well as refreshing the data and creating new revisions of the profile.

All cloning services are integrated with data masking capabilities and provide support for configuration mutations.

SECURE AND STORAGE EFFICIENT SNAP CLONE

The Cloud Management Pack Snap Clone feature allows administrators to create highly secure, fully functional thin copies of databases on Exadata and ZFS Storage Appliance. Using a self-service model, users can create space and time-efficient clones of large databases within minutes instead of hours. This technology is particularly useful for databases requiring few updates or changes like functional testing or reporting. Using Snap Clone, the end user can easily create multiple snapshots of the database and "time travel" across these snapshots to access data from any point in time.

A read-only testmaster protects data against accidental and unwanted changes. All changes are limited to thin cloned databases and are not propagated to the testmaster.
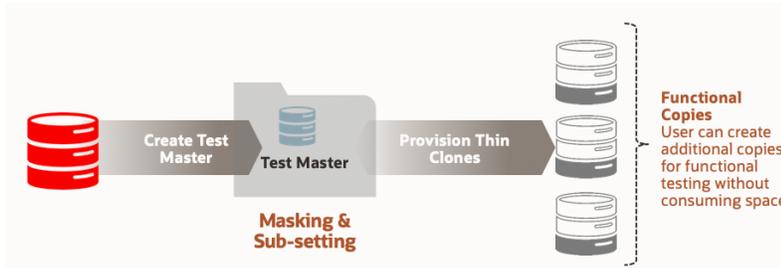
FLEET MAINTENANCE – SCALABLE PATCHING AND UPDATES

Fleet Maintenance provides self-service enabled patching for the database with minimal downtime. The subscription-based model enables updates at scale across the entire cloud infrastructure. An out-of-box dashboard enables administrators to track compliance.

METERING, SHOWBACK AND CHARGEBACK

A critical aspect in any data center is the ability to meter usage of resources and establish the cost for resources consumed. Administrators often need to analyze these costs and generate "Chargeback" or "Showback" reports to show usage by teams and business units. The Chargeback feature in Enterprise Manager allows administrators to define Chargeback Plans using different metrics collected for each type of resource and Cost Centers for grouping costs across teams and business units. The Chargeback has a rich set of out-of-box reports which help consumers understand how their charges relate to their consumption and also assist the IT department with budgeting and planning activities.

RESTFUL API AND CLI SUPPORT FOR COMPLETE AUTOMATION AND ORCHESTRATION

The Cloud Management Pack provides comprehensive RESTful APIs for operations that can be performed by a self-service user. Every feature in the self-service console has a corresponding RESTful APIs which enable enterprises to integrate Enterprise Manager's capability with custom home-grown portals or 3rd party orchestration tools.

Enterprise Manager also provides comprehensive EMCLIs with a rich set of verbs for cloud setup and facilitate access to administrator driven setup tasks like software library setup, provisioning profiles and quota management.

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