

# ORACLE CLOUD MANAGEMENT PACK FOR ORACLE DATABASE

ORACLE  
ENTERPRISE MANAGER **13<sup>c</sup>**

THE INDUSTRY'S ONLY COMPLETE  
SOLUTION FOR DATABASE CLOUD  
MANAGEMENT.

#### KEY FEATURES

- Works with all currently supported databases, including Oracle Database 18c and 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

Oracle Enterprise Manager is Oracle's on-premises management platform, providing a single pane of glass for management of Oracle environments, whether in customer data centers or in 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.

Enterprise Manager helps increase business agility using application-to-disk automation and maximizes service levels through intelligent management of the Oracle stack. It also enables customers to reduce costs through comprehensive lifecycle automation, combined hardware and software management, proactive monitoring and compliance control.

## 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 setup the Self-Service Portal to identify pooled resources, configure role-based access, define service catalogs, and configure chargeback plans.

Out of box, the Self-Service Portal allows users to request various kind of database services, and perform lifecycle operations on them such as start/stop, backup, patch, and health monitoring. It also provides capabilities to 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

Enterprise Manager supports multiple consolidation models for pooling database resources. Enterprise Manager 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.

#### KEY BENEFITS

- Bring agility by empowering Self Service Users to build and manage their Databases adhering to quota, compliance and standardization
- Reduce DBA time by automating deployment and maintenance of standard database configurations
- Optimize resource utilization by server consolidation and storage snapshotting to save on CAPEX.
- Single console to manage entire Cloud lifecycle – plan, setup, deliver, operate, migrate
- Govern resource consumption by setting quotas for individual users
- Forecast future resource needs by analyzing trending reports
- Compute chargeback based on performance and configuration metrics

#### RELATED PRODUCTS

- Oracle Diagnostics Pack
- Oracle Tuning Pack
- Oracle Data Masking Pack

## Rich Service Catalogs

Enterprise Manager enables rich service catalogs and self-service provisioning features that simplify deployment of a wide variety of database configurations. The role-based Service Catalog lists all service templates for standardized database configurations and is accessible via the out-of-box self-service portal or can be orchestrated via RESTful APIs.

## Data on Demand: Advanced Cloning Automation

Enterprise Manager provides complete data cloning automation, including Snap Clone and database full cloning, which can support a wide range of activities for both DBAs and end-users, from performance testing to functional testing. Cloud 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.

## DBaaS for Multitenant Databases

Multitenant Architecture provides high consolidation density, brings agility and administration at scale. Enterprise Manager 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.

In order to ease adoption of DBaaS for existing Oracle Multitenant environment, Self Service administrator can onboard existing CDB/PDB instances as Self Service managed DBaaS Cloud instances. Additionally, with instance relocation operations, migrations of instances come as an out of box feature. Pluggable Database relocation can be further optimized with unplug/plug operation.

## Flexible DBaaS Platform Options

Oracle Enterprise Manager's DBaaS solution is a platform agnostic solution that can run on any hardware platform - commodity hardware, virtual machines, or engineered systems. DBaaS can be deployed on any platform that is most appropriate for business and IT requirements.

For optimum database performance, Oracle Exadata is an ideal choice for DBaaS. With an infrastructure that's engineered to work together with your Oracle Databases, Oracle Exadata delivers far more power with less hardware. It removes IT complexity while delivering greater performance, scalability, security, and data protection.

## Fleet Maintenance – Scalable Patching and Updates

Fleet Maintenance provides Self-service enabled patching for 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 across cloud environments in real time.

## Metering, Showback and Chargeback

A critical aspect of Cloud delivery is the ability to establish usage cost for consuming cloud resources, and metering actual usage to deliver Chargeback or “Showback” reports. Enterprise Manager provides tools for defining detailed Chargeback plans spanning different metrics collected for each type of resources as well as defining Cost Centers for grouping costs across multiple developers.

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 Programmatic Access

Enterprise Manager provides comprehensive RESTful APIs for operations that can be performed by a self-service user. Every operation supported in the self-service console is also available by RESTful APIs, enabling enterprises to integrate Enterprise Manager’s capability with custom home-grown portals or 3rd party orchestration tools.

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

## Oracle Database as a Service with Enterprise Manager





Enterprise Manager provides the most comprehensive solution for rolling out an Oracle-based Database as a Service Cloud for users in an enterprise. It offers the broadest and the most complete set of capabilities to build, deploy and manage the end-to-end lifecycle of the cloud, all from a single console. The pre-integrated solution ensures that you can leverage the Cloud without having to learn a heap of non-standard languages and technologies, ensuring continuity of skills for the enterprise.

### CONTACT US

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### Hardware and Software, Engineered to Work Together

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