Oracle Enterprise Manager is Oracle’s strategic integrated enterprise IT management product line. It provides the industry’s first complete cloud lifecycle management solution. Oracle Enterprise Manager’s Business-Driven IT Management capabilities allow you to quickly set up, manage and support enterprise clouds and traditional Oracle IT environments from applications to disk. Enterprise Manager allows customers to achieve best service levels for traditional and cloud applications through management, including for Oracle Fusion Applications. With the maximum return on IT management investment through the best solutions for intelligent management of the Oracle stack and engineered systems, it gains unmatched customer support experience through real-time integration of Oracle’s knowledgebase with each customer environment.
Cloud Management

The greatest challenge of Enterprise Cloud is adequately provisioning server capacity to meet the new demands of the cloud and customer growing business need. Without proper management capabilities, expected economic benefits of cloud computing will not be realized. Oracle Enterprise Manager is Oracle’s premiere cloud management solution. It is the industry’s first complete solution including self-service provisioning balanced against centralized, policy-based resource management, integrated chargeback and capacity planning and complete visibility of the physical and virtual environment from applications to disk.

Oracle Cloud Management Pack for Middleware enables enterprise IT to transform itself to an enabler instead of being a bottleneck. It offers all the capability necessary for deploying and managing middleware-centric clouds. It enables enterprise users to acquire resources and deploy Java EE, SOA applications and Oracle Service Bus quickly, while focusing on application development, instead of infrastructure administration. It also helps enterprises realize the promise of Cloud and achieve massive enterprise agility.

Enterprise Manager 13c provides you with a single pane of glass for monitoring and managing your on-premises, private cloud and Oracle Cloud (public cloud) deployments, all from the same management console. By deploying Management Agents onto the Oracle Cloud virtual hosts serving your Oracle Cloud services, you are able to manage Oracle Cloud targets just as you would for any other targets. The communication between Management Agents and the on-premises Oracle management service instances is secure from external interference. Support is provided for managing Java Cloud Services (JCS), Database Cloud Service (DBCS) PaaS targets, as well as JVMD for monitoring JVMs on your Oracle Cloud virtual hosts.

Self-service Provisioning of Oracle Middleware Services

Enterprise Manager enables IT managers to create WebLogic, SOA/Oracle Service Bus Servers Cloud services on demand. Administrators can also define different types of services (based on sizing or other configuration characteristics of the server runtime) to meet their enterprise standards.

Developers can use an out-of-box Self-service portal to request these services on-demand, deploy applications to them, and manage the lifecycle of each of their service instances enabling end to end DevOps environment.
KEY FEATURES

- Enable Private Cloud on physical and virtualized infrastructure
- Deliver full capability of the Java EE, SOA and Service Bus platform in a self-service model
- Create platform services tailored to your application architecture and standards
- Retain complete control over your Cloud environment - who, what and when
- Manage entire Cloud lifecycle from a single console
- Integrate with 3rd-party workflow engine
- Plan before you deploy, and optimize your capital expenditures
- Organize Cloud resources in a manner that best suits your organization
- Ensure Cloud availability and SLAs, and rapidly identify root cause for failures or latency
- Enable elastic capacity for service instances based on policies
- Dynamic Resource Provisioning for maximizing capacity utilization
- Link DBaaS and MWaaS for service end users

Enterprise Manager 13c supports Self-service provisioning not only with standalone WebLogic domain, but also the JRF enabled WebLogic domain; so the customers can use the environment to build the mission critical applications with the integration of other Oracle Middleware components.

Allowing the customers to use the single tool to manage their entire environment, Oracle Enterprise Manager 13c also provides the solution for third party Java EE Application Server Self-Service provisioning, such as Tomcat; as well as the dynamic resource provisioning capability to connect with different backend infrastructures either physical or virtual.

Enterprise Manager automates end to end integration of application as a part of self service provisioning so that Cloud Users can start using the application as soon as they are provisioned thus saving valuable time and providing agility.

Extensive API Support for Complete Orchestration

All functionalities of Enterprise Manager are also available via REST APIs. Using these API’s administrators can orchestrate end-to-end service or integrate Enterprise Manager’s backend functionality with their own workflow.

Service and Resource Scaling

Scheduled policies can be used to scale-up or down resources or start/stop platforms on a periodic basis. Performance polices allow metric-based resource scheduling. For example, a user may choose to shut down the platform if the CPU utilization falls below 5%, to save on unnecessary resource usage and costs. This scalability also takes into account SLA requirements from service end users such as high-availability and IT requirements such as hardware resource utilization. When a load balancer is configured for the service instance, any elastic behavior will be seamlessly propagated to the load balancer.

Dynamic Resource Provisioning

Enterprise Manager also provides option for administrators to automate resource provisioning using favorite virtualization technology. Enterprise Manager 13c takes care
of provisioning a VM, associating VM to zone and pool and finally creates a new WebLogic instance on VM. So now administrators can provision entire weblogic domain end-to-end using single click.

Environment Cloning with Application Artifacts

A typical middleware application has multiple artifacts which get deployed in different repositories and containers. Application artifacts examples include ear/war files which get deployed on Java EE runtime container like WebLogic Server; SOA Composites Applications which get deployed on SOA server; application metadata like portal page definitions, end user customization which gets stored in database backed metadata store; security artifacts like policies which get stored in policy store.

Additionally such applications have integration with external entities like Web Servers, Load Balancers, Database Servers, LDAP Servers, Policy Stores and external applications.

Cloning of such a middleware environment requires cloning of platform components like WebLogic, Database, Web Servers followed by manual redeployment of application artifacts and reconfiguration. This is a time consuming resource intensive process.

Enterprise Manager 13c supports Test to Production and Production to Test cloning for Oracle WebLogic domains, deployed Java EE application, and configuration data; SOA, Service Bus and Business Process Management environment; as well as Oracle Web Center domains, portals and any content in the customer environments.

Metering, Chargeback and Quota Management

A critical aspect of Cloud delivery is the ability to transparently apportion costs to cloud consumers based on their use of resources. Enterprise Manager provides tools for defining detailed charge plans spanning different metrics collected for physical and virtual resources.

Enterprise Manager enables Cloud administrators to pool resources for hosting the Cloud workloads. Alongside, administrators can establishes policies for granting users access to different pools of Cloud resources. To limit over-consumption of resources, Enterprise Manager allows administrators to establish and enforce resource quotas. The administrator may also define policies governing the scheduling of resource requests, as well as retirement of allocated resources.

Cloud Administration and Monitoring

Once the Cloud is operational, administrators need to have visibility into the usage of the cloud. Enterprise Manager provides end-to-end monitoring and diagnostic capabilities for identifying bottlenecks in the cloud infrastructure and for taking remedial actions against such bottlenecks. Enterprise Manager provides a full solution for end-to-end application monitoring in the cloud. End User monitoring1 (real and synthetic), Business Transaction Management, Java and Database monitoring and Diagnostics, and system monitoring agents are deployed into the cloud infrastructure and provide complete performance and availability monitoring of the business application as well as the individual infrastructure and software components the application is deployed on.

1 Real User Monitoring is available through Real User Experience Insight (RUEI) which is sold separately.
Middleware as a Service with Enterprise Manager

Enterprise Manager provides the most comprehensive solution for rolling out a true infrastructure independent Middleware as a Service Cloud for users to easy build, provision, and manages their enterprise applications.

It offers the broadest and the most complete set of capabilities to build, deploy and manage the end-to-end lifecycle of the cloud; and provides a single pane of glass for monitoring and managing on-premises, private cloud and Oracle Cloud (public cloud) deployments, all from the same management console.

CONTACT US
For more information about [insert product name], visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Hardware and Software, Engineered to Work Together

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