ORACLE ENTERPRISE MANAGER OPS CENTER 12C

Oracle Enterprise Manager is Oracle’s integrated enterprise IT management product line, and 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 from a business perspective including for Oracle Fusion Applications, provide maximum return on IT management investment through the best solutions for intelligent management of the Oracle stack and engineered systems and gain unmatched customer support experience through real-time integration of Oracle’s knowledgebase with each customer environment.

Introduction

Oracle Enterprise Manager Ops Center 12c is a foundational offering in the Oracle Enterprise Manager 12c solution. It introduces unique capabilities to strengthen Oracle Enterprise Manager 12c’s ability to establish, manage, and support enterprise quality clouds delivered in an Infrastructure-as-a-Service model. With the launch of Oracle Enterprise Manager Ops Center 12c, Oracle Systems’ customers utilizing SPARC, X86, Oracle Solaris, Oracle Linux, Oracle ZFS Storage Appliance, Oracle Switches, and both Oracle VM technologies can accelerate cloud adoption faster at a lower cost. Oracle Enterprise Manager Ops Center 12c provides a comprehensive solution for operating system change and configuration management, firmware and BIOS configuration, bare metal and virtual machine provisioning, hardware (“automatic phone home”) fault analysis, performance management, while leveraging integrated diagnostics with automatic resource policies.

Figure 1. Enterprise Manager Ops Center 12c Lifecycle Management

Automatic Discovery

Enterprise Manager Ops Center 12c can rapidly discover all Oracle assets, such as servers, storage, networking, virtual systems, and operating systems. Securely probing sections or entire networks using built in knowledge of appropriate protocols. Following discovery, assets can be viewed in a usable format including storage and network relationships to physical and virtual servers. Enterprise Manager Ops Center 12c provides complete management of Oracle Solaris Zones and Oracle VM Server for SPARC that are created outside of Oracle Enterprise Manager Ops Center, including layered virtualization support for Oracle Solaris Zones within Oracle VM Server for SPARC logical domains.
Automatic Provisioning

Oracle Enterprise Manager Ops Center 12c automates the process of deploying new systems in a single step. From hardware configuration and firmware updates to OS and VM provisioning, Oracle Enterprise Manager Ops Center 12c reduces the number of administrator tasks while enabling the infrastructure to scale without growing more complex. It offers an extensible plan framework to capture and deploy the datacenter’s best practice deployments.

Intelligent patching and configuration management

With its unique knowledgebase, Enterprise Manager Ops Center 12c keeps all components (physical as well as virtual) in the stack up to date. Decisions to update can be based upon security or compliance reporting and delivered to multiple physical and virtual environments in a parallel controlled manner using checks and pre-staging to ensure successful updates. Customers are in control of the patching profile content where patch versions are fixed, ensuring profiles delivered into Test are the same delivered into Production.

Hardware and Operating System monitoring and management

Enterprise Manager Ops Center 12c monitors physical and virtual systems to provide end-to-end monitoring of the complete stack. It monitors individual as well as aggregate resources to get a complete view of the system. Oracle Enterprise Manager Ops Center 12c displays M-series Hard Partitions, Oracle Solaris Zones and Oracle VM for SPARC and x86 virtual machines in a concise manner helping to identify the over subscription of resources. Historical information for a variety of operating system performance parameters can be monitored and stored for future reference. Moreover, any and all gathered data can be exported for further analysis or to create custom reports.
Automated maintenance

Oracle Enterprise Manager Ops Center 12c integrates with My Oracle Support for automated service requests and access to the Oracle knowledge base for optimal problem resolution.

Centralized Oracle Virtualization Management Solution

Oracle Enterprise Manager Ops Center 12c manages the lifecycle of M-series Hard Partitions, Oracle Solaris Zones and Oracle VM Server for both X86 and SPARC. Their resources are monitored continuously to provide up-to-date information on usage. Based on the dynamic needs of the applications, new Oracle Solaris Zones and Oracle VM Server virtual guests can be created, deleted, cloned, or reconfigured.

Server pooling and Infrastructure-as-a-Service

As the central management console for all relevant Oracle Systems infrastructures, Oracle Enterprise Manager Ops Center 12c allows for the pooling of resources for Oracle SPARC and Intel CPU architectures. Build virtual datacenters (or clouds) on top of server pools to allow the policy engine to work across Oracle VM Managers. Control the allocation of vCPU, memory, and network resources such as vnets and IP addresses to user accounts. Insure network segmentation between users of shared resources. Allow for role segmentation between resource users and resource administrators. Oracle Enterprise Manager Ops Center 12c virtual datacenters allow administrators to improve how compute resources are delivered to end-users to deliver Infrastructure-as-a-Service.

Figure 3. Virtualization aware Operating System Analytics

Figure 4. A resource summary view of a Production Server Pool containing Oracle VM Server for SPARC servers and guests.
Enterprise Manager 12c

The Oracle Enterprise Manager Ops Center 12c infrastructure stack plug-in increases the efficiency of datacenter operations by sharing event and target attribute information between the business service owners and the infrastructure operations staff.

Technical Specifications

Managed Servers
- All Integrated Lights Out Manager-based Oracle servers
- Advanced Lights Out Manager, Embedded Lights Out Manager-based Oracle servers
- Oracle SPARC M5, M6 and Fujitsu M10 servers
- Oracle ZFS Storage Appliances
- Oracle Infiniband and Ethernet switches
- Oracle Engineered Systems
- Oracle Solaris, Oracle Linux, SuSE, and Windows

Feature Summary

Enterprise Manager Ops Center 12c
- Lifecycle Management of Physical and Virtual Machines, Oracle VM for X86, Oracle VM for SPARC, ZFS Storage Appliances, Infiniband and Ethernet Fabric’s, Operating Systems, Oracle Solaris Cluster and Oracle Engineered Systems
- Oracle SPARC M-Series Domain Management
- Discovery and Topology Management
- Virtual Datacenters and Server Pool Architectures
- Fault Monitoring, ASR and My Oracle Support Integration
- Enhanced BIOS tooling & Firmware Automation at system and FRU level
- Operating System Bare Metal Provisioning
- Operating System Performance Monitoring
- Patch Automation
- Access to the Enhanced Dependency Engine from Oracle Corporation Configuration and Compliance Reporting
- Energy Awareness and Management

Contact Us

For more information about Oracle Enterprise Manager Ops Center 12c, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

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Hardware and Software, Engineered to Work Together