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Oracle Enterprise Manager 12c Overview

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Oracle's Complete Enterprise Software Stack

Built-in and Integrated Manageability



- **Leader in the complete enterprise application stack**
- **Built-in manageability in every tier**
- **Integrated manageability across the entire stack**

Database Management



- **Management Solutions for Database**
 - Diagnostics Pack
 - Tuning Pack
 - Lifecycle Management Pack
 - Data Masking
 - Test Data Management Pack
 - Real Application Test
- **Also offer plug-ins for 3rd party DBs like DB2, SQL Server**
- **Visibility into application performance**
- **Automate operations for configuration management, provisioning**

Fusion Middleware Management



- **Management Solutions for FMW**
 - Oracle WebLogic Server
 - Oracle SOA Suite & Service Bus
 - Oracle Coherence
 - Oracle Identity Management Suite
 - Oracle Business Intelligence
 - Oracle WebCenter
- **Also offer Management Pack for Non-Oracle Middleware**
- **Visibility into application performance**
- **Automate operations for configuration management, provisioning**

Oracle Applications Management

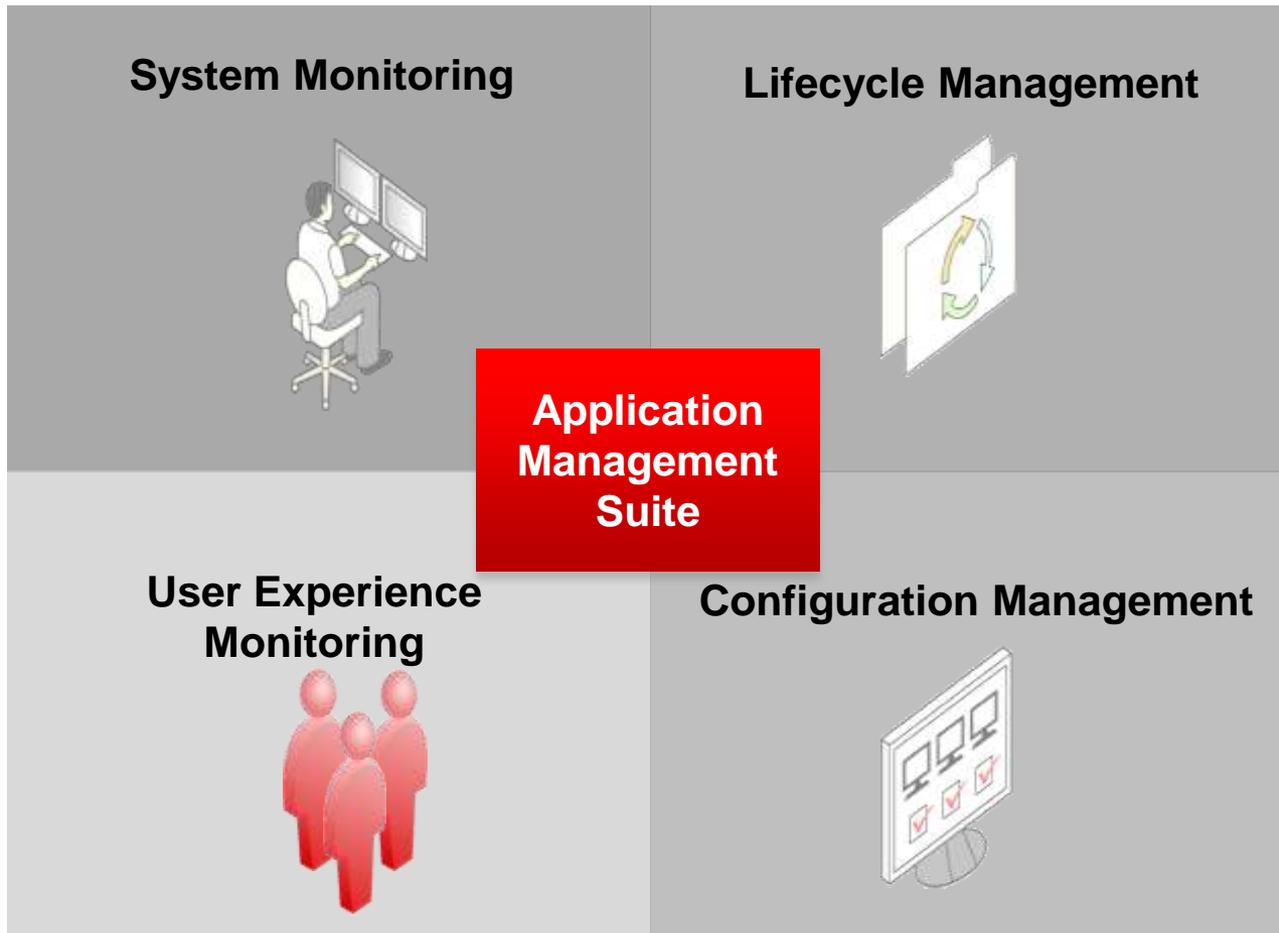


Application Management Suites for:

- Fusion Applications
 - E-Business Suite
 - PeopleSoft
 - Siebel
-
- **Visibility into application performance**
 - **Automate operations for configuration management, provisioning**
 - **Change Management for EBS and Fusion**

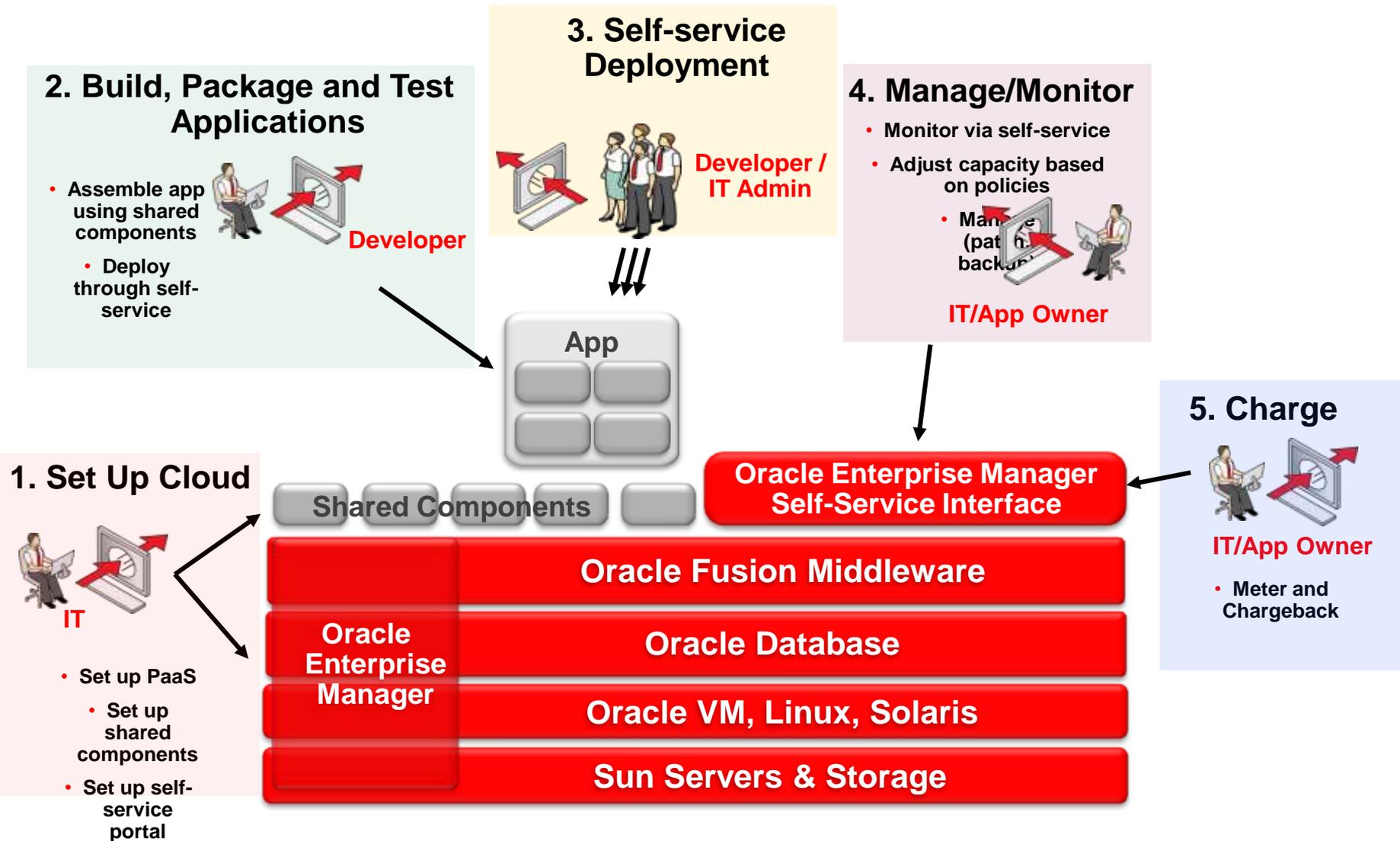
Application Management Suites

EBS, PeopleSoft, Siebel, and Fusion



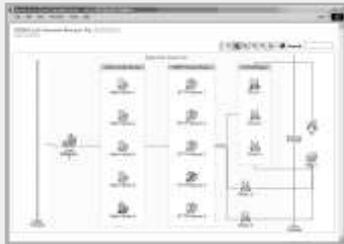
Five Essential Requirements

Private Cloud Lifecycle



Oracle Enterprise Manager 11g

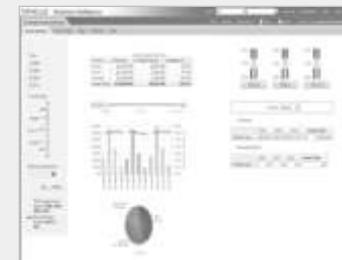
Foundation Capabilities for Managing Datacenters



**Lifecycle
Management**



**Full Apps to Disk
Management**



**Application
Quality
Management**

Oracle Enterprise Manager 12c

Cloud Management Capabilities

Self-Service Provisioning

Metering and Chargeback

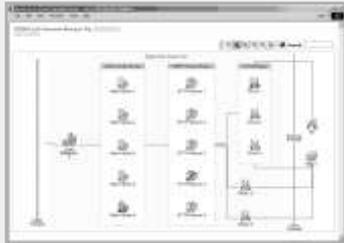
Policy-Driven Resource Mgmt

Capacity Planning

Assembly Packaging



Foundation Capabilities for Managing Datacenters



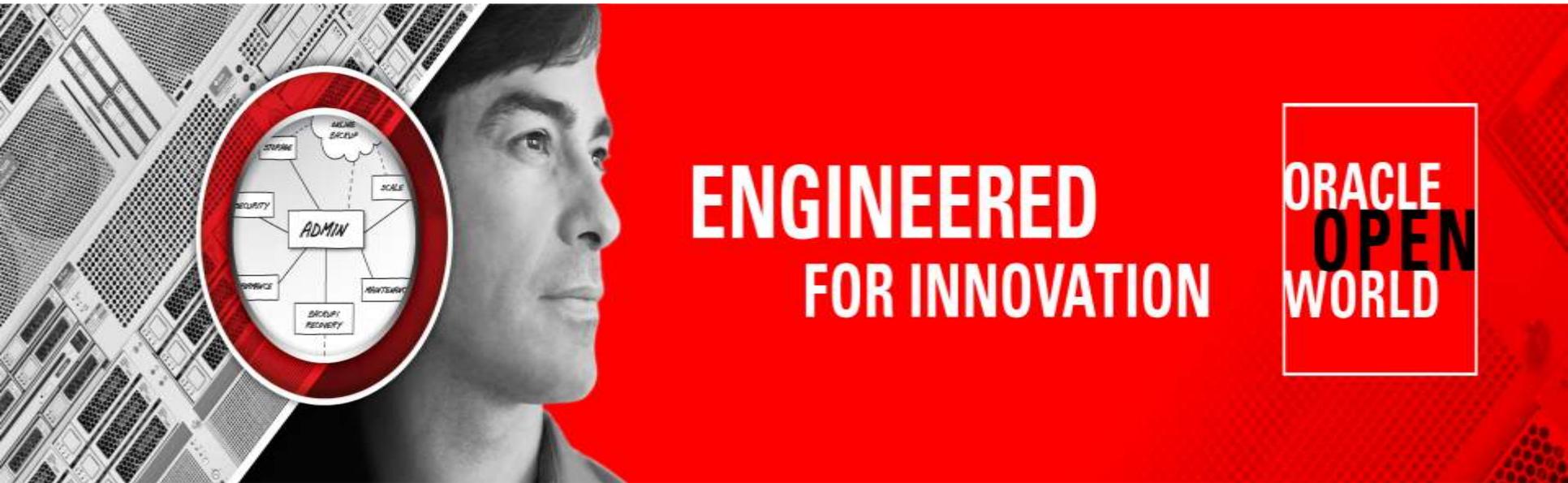
Full Apps to Disk Management



Lifecycle Management



Application Quality Management



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Enterprise Manager 12c Updates

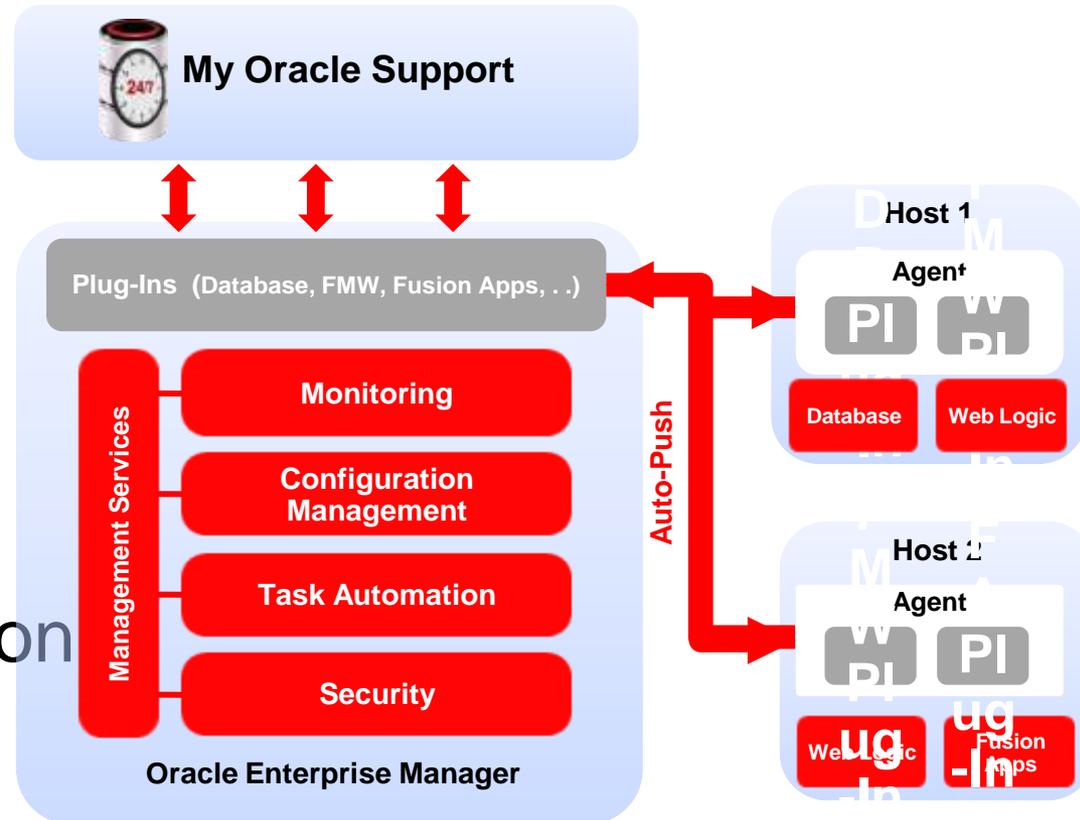
Unique Management Requirements

- **Personalization**
 - Now customizable for different audiences
 - Redesigned interface enhances ease-of-use
- **Extensibility**
 - New Plug-in architecture supports faster release cycles
 - custom and 3rd party target types
- **Performance, Stability and Scalability**
 - Now scales to tens of thousands of targets
 - Delivers critical information in a timely fashion
- **Security**
 - Integrates with enterprise security – Active Directory and LDAP
- **Manageability**
 - Deployed across thousands of distributed systems



New Massively Scalable Framework

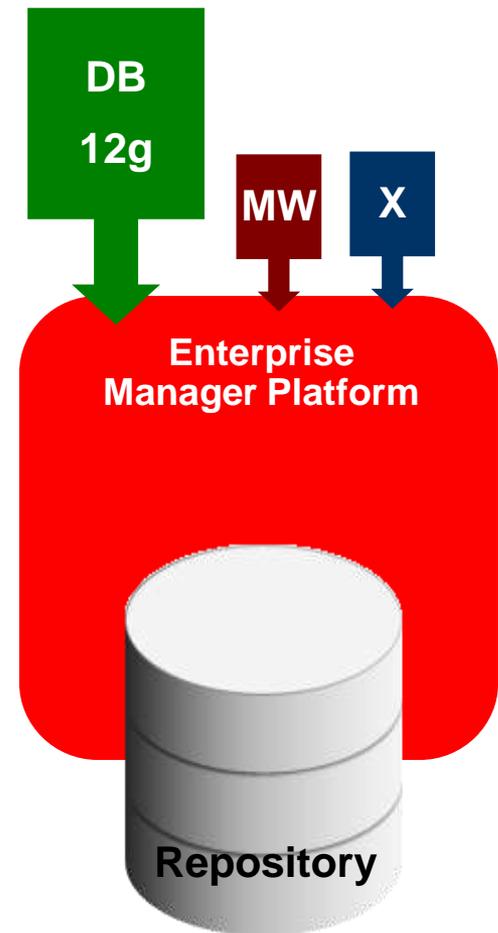
- Robust, Extensible, Secure
- Better performance and scalability
- Self-update
- Enhanced security
- New web 2.0 user interface
- Powerful configuration management



New Agent Architecture

Plug-in Architecture

- **New** architecture for extensibility
 - EM Platform** - cannot be updated between releases
 - EM Plug-ins** - can be updated between releases
- **All out-of-box target types modeled as plug-ins**
- **Enables target support and other vertical capabilities to be added** outside of Enterprise Manager Platform release cycle



Enterprise Manager Grid Control 12c

Installation Quick-Start

<http://www.oracle.com/technetwork/oem/install-upgrade-496677.html>

What's New in Enterprise Manager 12c Install (pdf)

- Single Installer for WLS (10.3.5) and Enterprise Manager 12.1
- Step-by-step from download to post-install

Understanding Enterprise Manager 12c Upgrade (pdf)

- Complete Cutover with Higher Downtime
- Phased Cutover with Minimal Downtime

Enterprise Manager Grid Control 12c

Upgrade Documentation

http://download.oracle.com/docs/cd/E24628_01/upgrade.121/e22625/toc.htm

Supported Upgrade Paths

- The following upgrade paths are supported:
- Upgrade from 10.2.0.5.0 directly to Enterprise Manager Cloud Control
- Upgrade from 11.1.0.1.0 directly to Enterprise Manager Cloud Control.
- Upgrade from 10.2.0.5.0 to 11.1.0.1.0, and then upgrade to Enterprise Manager Cloud Control.

Oracle Enterprise Manager 12c: Perform a Simple Installation

<http://www.youtube.com/watch?v=i7Zci4eNxW4>

What's New: Enhanced User Interface

- Context-sensitive menus designed to reduce number of mouse clicks to destination.
- Customizable Home Pages
- Stored History and Favorites
- Global Menu
- Global Search

YouTube: [Oracle Enterprise Manager 12c: Console Overview and Customization](#)

http://www.youtube.com/user/OracleLearning#p/a/u/1/_JG13UyAAe8

What's New: Administration Groups and Template Collections

Administration groups simplify adding targets to your managed environment.

- OEM12c can automatically apply monitoring templates to targets upon joining an Administration Group.
- Template categories include: monitoring, compliance, cloud policies.
- This completely eliminates the need for administrator intervention.

[Administration Groups and Template Collections Documentation](http://download.oracle.com/docs/cd/E24628_01/doc.121/e24473/administration_group.htm)

http://download.oracle.com/docs/cd/E24628_01/doc.121/e24473/administration_group.htm

What's New: Administration Groups and Template Collections

Auto-Applying Monitoring Settings to Targets through Administration Groups and Template Collections

Step 1.

The Administrator sets the target property Lifecycle Status to "Production".



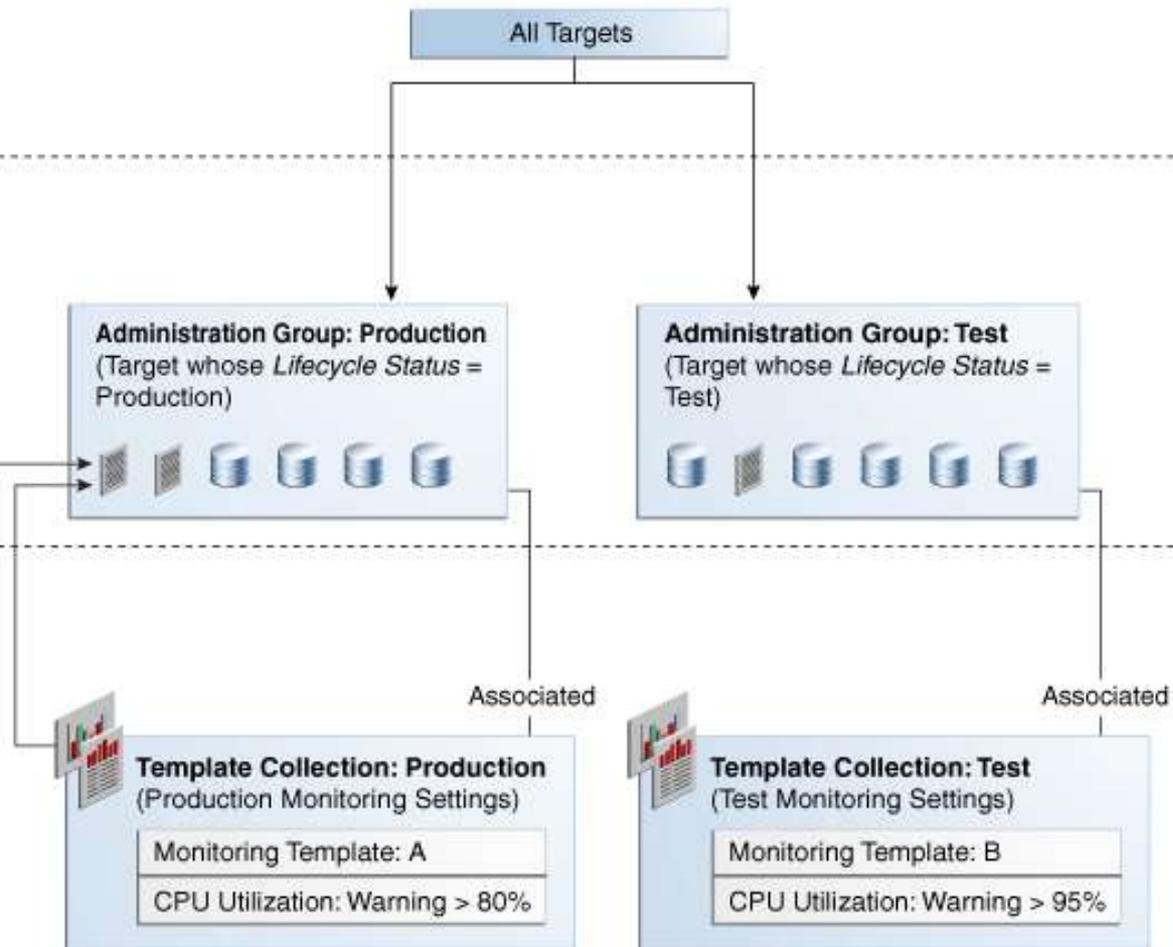
Step 2.

Enterprise Manager adds the target to the Administration Group.



Step 3.

Enterprise Manager applies the monitoring template to the target.



What's New: User-Defined Deployment Procedures

Can now add custom deployment procedures to existing library

YouTube: [Oracle Enterprise Manager 12c: Implement User-Defined Deployment Procedures](#)

http://www.youtube.com/watch?v=NPh_eo8qYnM

Enterprise Manager Security

- [About Oracle Enterprise Manager Security](#)
- [Enterprise Manager Authentication](#)
- [Enterprise Manager Authorization](#)
- [Configuring Secure Communication \(SSL\) for Cloud Control](#)
- [Accessing Managed Targets](#)
- [Cryptographic Support](#)
- [Setting Up the Auditing System for Enterprise Manager](#)
- [Additional Security Considerations](#)

http://download.oracle.com/docs/cd/E24628_01/doc.121/e24473/security.htm#CFADEFCA

YouTube: Oracle Enterprise Manager 12c: Authenticate Enterprise Manager Users with Active Directory

<http://www.youtube.com/watch?v=ovvHY33oOtQ>

Oracle Application Quality Management

Testing Application Changes

- *Application Testing Suite*
- Ensure quality and performance with end-to-end application testing

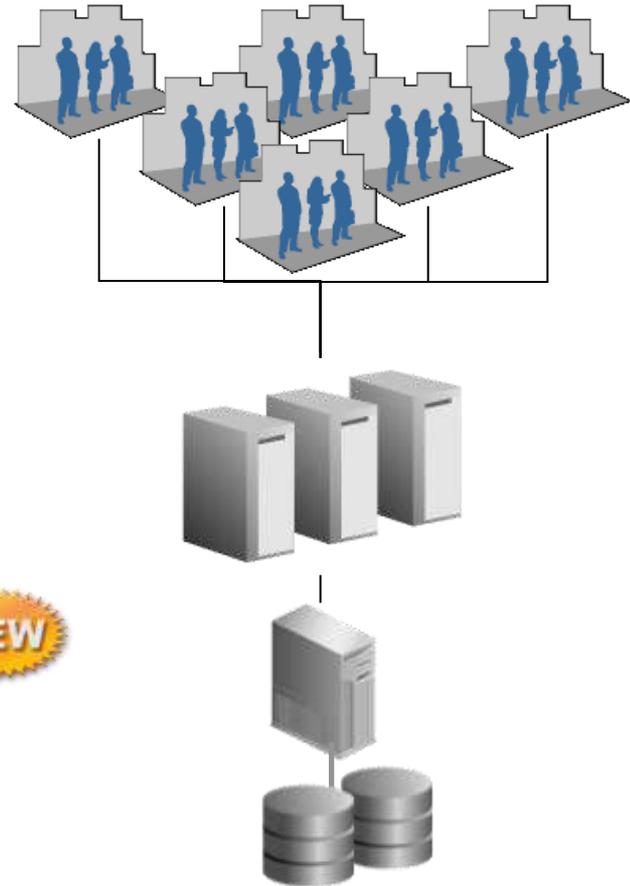
Testing Database Changes

- *Real Application Testing*
- Designed and optimized for testing database tier infrastructure changes

Test Data Management

Test Data Management Pack

- Data subsetting – provision subset of production db to test
- Automatic discovery and preservation of data relationships
- *Data Masking Pack*
- Achieve security & compliance objectives by obfuscating sensitive data in test environments
- Enables secure, production-scale testing



Self-Running Viewlets on OTN

New in 12c Diag and Tuning

<http://www.oracle.com/technetwork/oem/em12c-screenwatches-512013.html>

Use Active Session History (ASH) Analytics Use Real-Time ADDM

Use Real-Time ADDM

Compare Period ADDM

Self-Running Viewlets on OTN

<http://www.oracle.com/technetwork/oem/em12c-screenwatches-512013.html>

1. Cloud Management
2. Lifecycle Management
3. Application Quality Management
4. Enterprise Monitoring
5. Application Management
6. Middleware Management
7. Database Management
8. Hardware and Virtualization Management
9. Enterprise Manager Framework and Infrastructure