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Welcome to the Oracle Enterprise Manager Technical Webcast Series

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<http://www.oracle.com/technetwork/oem/grid-control/intercall-audio-dialin-182843.html>

The meeting will begin in a few minutes.

The background of the top section is a dark collage of various images related to IT and business. It includes server racks, people working at computers, a person pointing at a screen, a person in a lab coat, and a person in a suit. The Oracle logo is prominently displayed in the top left corner.

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ENTERPRISE MANAGER

Business-Driven IT Management

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Enterprise Manager Cloud Control 12c

Technical Webcast Series:

**Oracle Enterprise Manager 12c Automated Agent
Deployment**

Ankur Gupta, Akanksha Sheoran - Product Management

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Agenda

- Enterprise Manager 12c Overview
- How to get EM 12.1 agent binaries
- Various Agent Deployment Methods
 - ❖ 11g Vs 12.1
- Agent Push Application (Add Host Targets Wizard)
 - ❖ What's new
 - ❖ Requirements
 - ❖ Key customer use cases
 - ❖ Demo
- Add Host Results (Track the agent deployment sessions)
- Q&A
- Documentation



Enterprise Manager
Overview

SOFTWARE.
HARDWARE.
COMPLETE.

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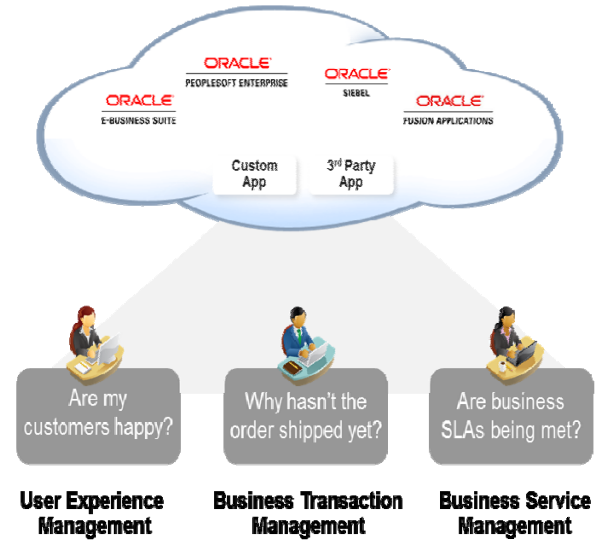
Total Cloud Control



Complete Lifecycle Management



Integrated Cloud Stack Management



Business-Driven Application Management

Self-Service IT

Simple and Automated

Business Driven



Agent Deployment Overview

**SOFTWARE.
HARDWARE.
COMPLETE.**



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How to get EM 12.1 Agent Binaries

- EM 12.1 Agent binaries are **NO longer available on OTN**
- By default the OMS contains only the agent software of the OMS platform.
- To deploy an Agent to a platform different from the OMS platform, the agent software has to be downloaded from Self Update
- Download can be done from Self Update in two ways:
 - A. Online Connection Mode
 - Automatically downloads the Agent Software updates from MOS
 - B. Offline Connection Mode
 - Manually download and upload the Catalog for Agent Software from MOS
 - Manually download and upload each platform Agent Software update from MOS

Various Agent Installation Methods

Agent Deployment Method	EM 11g	EM 12c
Agent Push Application	<p>Yes</p> <p>Various Agent Install supported through this method:</p> <ol style="list-style-type: none"> 1.Fresh Install 2.Clone Agent 3.Shared Agent(NFS) 4.Agent Upgrade 	<p>Yes (called as add host wizard)</p> <p>Various Agent Install supported through this method:</p> <ol style="list-style-type: none"> 1.Fresh Install 2.Clone Agent 3.Shared Agent(NFS) 4.Agent Upgrade (not supported and is done via upgrade console)
Using Response File (Silent Agent Install)	Yes	<p>Yes, Done into 2 parts:</p> <ol style="list-style-type: none"> 1.Login to emcli in OMS home to get the agent image 2.Unzip the image to install the agent using agentDeploy.sh with the response file from target box
Using agentDownload Script (Agent Pull)	Yes	<p>Yes, Done in 2 parts:</p> <ol style="list-style-type: none"> 1.Login to emcli in OMS home to get the agent image 2.Install the agent using agentDeploy.sh from target box
Agent Software only Configure later	No	Yes
RPM	No (available only for BMP/OVM customers)	Yes
NFS	Yes, GUI and command line(nfsagentinstall)	Yes, GUI (Agent add host wizard) and command line(AgentNFS.pl)

Same

A man in a dark suit, light blue shirt, and striped tie is sitting in a chair, gesturing with his right hand. He is positioned in front of a row of server racks. The racks have a perforated metal front panel. On the left, a rack has a 'TAPE' label and a 'STANDBY' indicator. On the right, a rack has several control buttons and indicators, including a power button, a warning triangle, and a lock icon. The background is a blurred office setting with large windows.

ADD HOST TARGETS WIZARD (AGENT PUSH APPLICATION)

FRESH AGENT INSTALL

Add Host Targets Wizard- Agent Deployment Types

You can use the Add host targets wizard to deploy the EM 12.1 agent in following ways from EM 12.1 Console:

- Fresh Agent Install

Installs the vanilla version of the agent.

- Clone Existing Agent

Installs an agent using an existing source agent that is well tested and patched.

- Shared Agent Install

Installs an agent using an existing master agent that is installed on a NFS mounted drive.

Note: Older version of agents (<12.1) will not work with EM 12.1 OMS

Add Host Targets Wizard- **What's new in Enterprise Manager 12.1**

- Agent Push Wizard is also referred as Add Host Targets Wizard because it promotes an unmanaged host target to a managed one by installing an Management Agent on that host.
- **Oracle recommended way** to perform Mass agent Deployment
- Multi-platform agent deployment in a single deployment session
- Integrated with Discovery, Self Update and Named Credentials
- Sudo/Powerbroker or any privilege delegation tool integrated user can input it in the console.

Add Host Targets Wizard- What's new in Enterprise Manager 12.1 (Cont ..1)

- Fine tuned Retry and Continue options in case of failure
- Simplified UI – Most of the inputs are auto computed(agent registration password, load balancer host port, virtual host name etc.)
- Per Host Status Tracking in case of Mass deployment
- Session Information persisted in database for tracking in future
- Discovery and OH monitoring plugins are pushed with the agent
- If you have 2 node RAC and want to install the agent then you have to install the standalone agents on both the nodes. In Add host targets wizard you will provide both the nodes and it will do the agent install

Add Host Targets Wizard -What's new in Enterprise Manager 12.1 (Cont ..2)

- Agent Securing (auto generated one time passwords) and Root scripts are run automatically by detecting privileges.
- Automatic Platform defaulting – if user is coming from discovery flow then we compute the platform based on the target discovery
- Approved patches can be pushed to the agent during initial deployment by placing the patches under \$OMS_HOME/install/oneoffs/
- Cause/Error/Recommendations provided in cause of failure

Add Host Targets Wizard - Requirements

- SSH daemon must run on the target host.
- SSH Vendors supported are OpenSSH and Tectia (certification in progress)
- Target host must be pingable from the OMS
- Cygwin 1.7 must be installed in case of Windows

Add Host Targets Wizard - **Key Customer Use-cases**

- **Locked Account**

You can give the named credential for **UserX** (username/password) and set RunAs in the named credentials as **oracle**(locked user account). Now the application will login to the remote host as **UserX** and perform the agent installation as **oracle**.

- **Using existing SSH public key Authentication:**

Some customers want to use an existing ssh public key authentication and don't want to expose any passwords . In this case they can give a dummy password in the named credentials and the application will use the underlying public key infrastructure to perform the agent install.

Add Host Targets Wizard - **Launch Point** from **EM 12c console**

➤ **Direct**

Setup → Add Target → Add Targets Manually → Add Host Targets → Add Host

➤ **From Discovery**

Setup → Add Target → Auto Discovery Results → Host Targets → Promote



DEMO

**We will do a fresh EM 12c Agent Install
using the Add host wizard**



Add Host Targets Wizard (Agent Push Application)

**Add Host Results : How to view the
previous agent deployment sessions**

Add Host Targets Wizard- Add Host Results

(Track the agent deployment sessions)

- Add Host Results page is used for tracking ongoing or completed agent deployment sessions.
- Launch Point
Setup → Add Target → Add Targets Manually → Add Host Targets → Add Host Results
- Has a detailed Query panel to filter the Add Host Results.
- View the details of a particular session by clicking on session name.
- Can retry or continue a failed session at any time in the future.



DEMO

Add Host Results : How to view the previous agent deployment sessions

Documentation and Help

- Install guide is the single source of truth.
- Always refer to the Agent Deployment section from the EM 12c Install guide available on OTN:
<http://www.oracle.com/technetwork/indexes/documentation/index.html#em>
- Post your queries on Install forum for any help:
<http://myforums.oracle.com/jive3/forum.jspx;jsessionid=8a01b91e30dc54e9d3d2878542859196b34aadeed060.e3mNb38NcheTe3mMbhiQa38Sb40?forumID=4137&start=0>
- Installation and upgrade collateral page on OTN
<http://www.oracle.com/technetwork/oem/install-upgrade-496677.html>

For More Information.....

- **Oracle Enterprise Manager Cloud Control 12c home page**

<http://www.oracle.com/technetwork/oem/index.html>

- **Installation and Upgrade on OTN**

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

- **Enterprise Manager 12c live and recorded webcasts**

http://www.oracle.com/technology/products/oem/events/webcasts_index.html

- **Enterprise Manager 12c Screenwatches**

<http://www.oracle.com/technetwork/oem/grid-control/webcasts-index-090211.html>

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