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Enterprise Manager Cloud Control 12c Release3 (12.1.0.3)

Agent Deployment

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Program Agenda

- Various Agent Deployment Methods
 - ◆ 12.1.0.1 Vs 12.1.0.2 Vs 12.1.0.3
- Manual Agent Deployment
- Add Host Wizard
 - What's new
 - Add host using EM CLI
 - Demo (screenshots)
 - Troubleshooting

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Various Agent Installation Methods

Agent Deployment Method	12.1.0.1	12.1.0.2	12.1.0.3
Agent Push Application (called as add host wizard)	Yes (called as add host wizard) Various Agent Install supported through this method: 1.Fresh Install 2.Clone Agent 3.Shared Agent(NFS) 4.Agent Upgrade (not supported and is done via Agent upgrade console)	Yes (called as add host wizard) Various Agent Install supported through this method: 1.Fresh Install 2.Clone Agent 3.Shared Agent(NFS) 4.Agent Upgrade (not supported and is done via Agent upgrade console)	Yes (called as add host wizard) Various Agent Install supported through this method: 1.Fresh Install 2.Clone Agent 3.Shared Agent(NFS) 4.Agent Upgrade (not supported and is done via Agent upgrade console)
Agent Push using EMCLI	NO	NO	New: Ability to install multiple agents in a single session using EMCLI Various Agent Install supported through this method: 1.Fresh Install 2.Clone Agent 3.Shared Agent(NFS)
Using AgentDeploy.sh (Silent Agent Install)	Yes, Done into 2 parts: 1.Login to emcli in OMS home to get the agent image and then transfer to destination host 2.Unzip the image to install the agent using agentDeploy.sh with the response file from target box	Yes, Done into 2 parts: 1.Login to emcli in OMS home to get the agent image and then transfer to destination host 2.Unzip the image to install the agent using agentDeploy.sh with the response file from target box	Yes, Done into 2 parts: 1.Login to emcli in OMS home to get the agent image and then transfer to destination host OR Login into destination host and use emcli to get the image 2. Unzip the image to install the agent using agentDeploy.sh with the response file from target box

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Various Agent Installation Methods

	gent Deployment ethod	12.1.0.1	12.1.0.2	12.1.0.3
	ing AgentPull.sh gent Pull)	Nothing new but similar to silent agent install using response file	New: Done in 2 parts: 1. Download the agent pull script using browser with the published url Or from command line 2. Use the script (AgentPull.sh) to install the agent	Same: Done in 2 parts: 1. Download the agent pull script using browser with the published url Or from command line 2. Use the script (AgentPull.sh) to install the agent
	ent Software only nfigure later	Yes	Yes	Yes
RP	М	Yes	Yes	Yes
NF	S	Yes, GUI (Agent add host wizard) and command line(AgentNFS.pI)	Yes, GUI (Agent add host wizard) and command line(AgentNFS.pI)	Yes, GUI (Agent add host wizard) and command line(AgentNFS.pI)

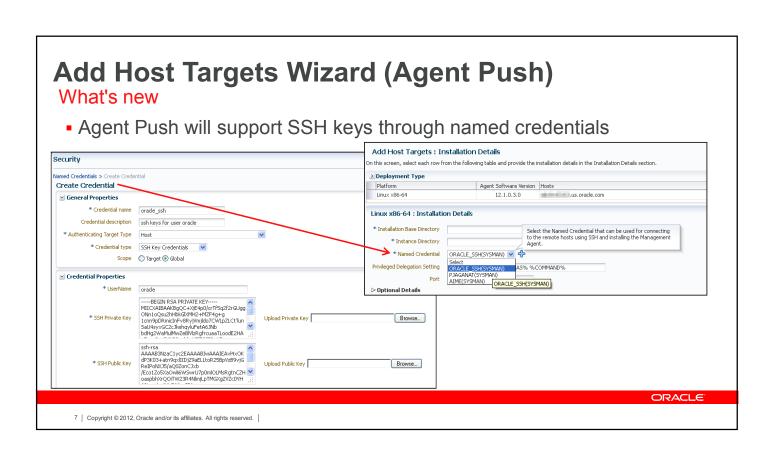
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What's new

- Add Host Targets Wizard (Agent Push) support through EMCLI
 - All the verbs support the various formatting options like –noheader, -format (pretty, script, csv)
 - We can divide the add host verbs into 2 categories:
 - A. Perform Add Host verbs
 - » submit_add_host -- Submit an Add Host session
 - » list_add_host_platforms -- List the supported Add Host platforms
 - » retry_add_host -- Retry a failed Add Host session
 - » continue_add_host Resume a failed Add Host session
 - B. Tracking Add Host verbs
 - » get_add_host_status -- Display the latest status of a submitted Add Host session.
 - » list_add_host_sessions -- List the submitted Add Host sessions

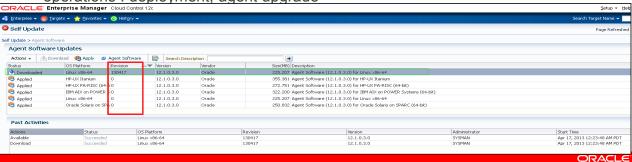
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What's new

- We will be supporting revisions for agent software and this is integrated with self update
 - This will enable customers to download/apply agent software which are updated or rereleased after EM 12.1.0.3 is released

 Once the new revision is applied in Self update, it will be used for all agent life cycle operations: deployment, agent upgrade



What's new

- Support for all standard pdp utilities sudo, pbrun, sesu, su.
- Support for pseudo terminals
- Secure sudo/pbrun/sesu policies

Example:

From: oracle ALL=(root) /bin/sh

To : oracle ALL=(root) /usr/bin/id, /home/oracle/agentibd/*/agentdeployroot.sh

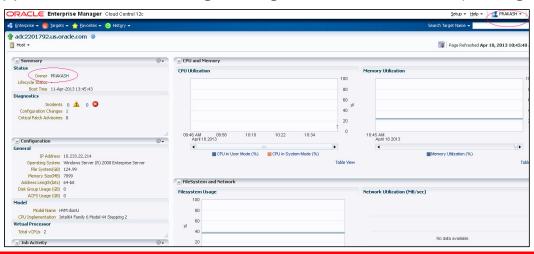
 Locked account user with secure umask setting and secure home directory permissions

Eg. Login user: seibel with umask 027 and home directory permission 700 Locked user: oracle

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What's new

Support addition of host/Agent target as non SYSMAN (EM login) user.



What's new

- Support rolling phase deployment
 - Agent deployment proceeds continuously from one deployment phase (Initialization, remote pre-req, agent deployment) to another, after ignoring the failed hosts in each deployment phase. The deployment process does not stop when a host fails a deployment phase.
 - To deploy Management Agents in a rolling manner with UI or EM CLi, ensure that you set the oracle.sysman.prov.agentpush.continuelgnoringFailedHost property to



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Major Requirement

- SSH daemon must run on the target host. The supported SSH Vendors are OpenSSH and Tectia
- Cygwin 1.7 must be installed on the target host in case of Windows
- EM login users require CREATE_TARGET privilege to deploy agent through UI and EM CLI

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Agent deployment using AgentDeploy.sh

What's new

- You can install a Management Agent using the agentDeploy.sh or agentDeploy.bat script in the following ways:
 - A. Using EM CLI from the Remote Destination Host
 - · Set up EM CLI on the destination host
 - Download the Management Agent software from Software Library to a temporary directory on the destination host:<emcli_install_location>/emcli get_agentimage -destination=<download_directory> -platform="<platform>" version=<version>
 - Invoke agentDeploy.sh
 - B. Using EM CLI from the OMS Host
 - Log into EM CLI on OMS and download Agent software from Software Library to a temporary directory on the OMS using emcli get_agentimage
 - Transfer the downloaded ZIP file to a temporary directory (/tmp) on all the destination hosts where you want to install
 agents. You can use any file transfer utility to transfer the file.
 - Invoke agentDeploy.sh

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How to push Agent and Plug-in patches while doing Fresh Agent Deployment or Agent Upgrade?

Agent Core patches

- Agent core patches can be applied as part of agent upgrade
- In case of multi-oms environment, user has to repeat the same steps on all the oms
- Steps to be followed:
- 1. After user has downloaded the agent one-offs from MOS, place them in a directory under OMS home
- 2. For any platform specific patches place them under : \$OMS HOME/install/oneoffs/<agent version>/<platform>

Where:

<agent version> - points to the version of the agent for which the patches are applicable

<platform> - points to the platform for which the patches are compatible

The platform value should be mentioned in a table with the following values

Platform OS	Platform Directory Name
Linux x86	linux
Linux x86-64	linux_x64
Oracle Solaris on SPARC (64-bit)	solaris
HP-UX PA-RISC (64-bit)	hpunix
HP-UX Itanium	hpi
IBM S/390 Based Linux (31-bit)	linux_zseries64
IBM AIX on POWER Systems (64-bit)	aix
IBM: Linux on POWER Systems	linux_ppc64
Microsoft Windows x64 (64-bit)	windows_x64
Oracle Solaris on x86-64 (64-bit)	solaris_x64
Microsoft Windows (32-bit)	win32

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How to push Agent and Plug-in patches while doing Fresh Agent Deployment or Agent Upgrade?

Agent Core patches

- 3. For any Generic patches place them under : \$OMS_HOME/install/oneoffs/<agent version>/Generic
- For example, lets say if user has downloaded 3 patches applicable on top of 12.1.0.3 agent version.

11180406 - Generic patch 11878907 - Linux-x64 patch 11993573 - Linux-x64 patch

Then the user will put these patches in the following location: \$OMS_HOME/install/oneoffs/12.1.0.3.0/Generic/11180406 \$OMS_HOME/install/oneoffs/12.1.0.3.0/linux_x64/11878907 \$OMS_HOME/install/oneoffs/12.1.0.3.0/linux_x64/11993573

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How to push Agent and Plug-in patches while doing Fresh Agent Deployment or Agent Upgrade?

Plug-in patches

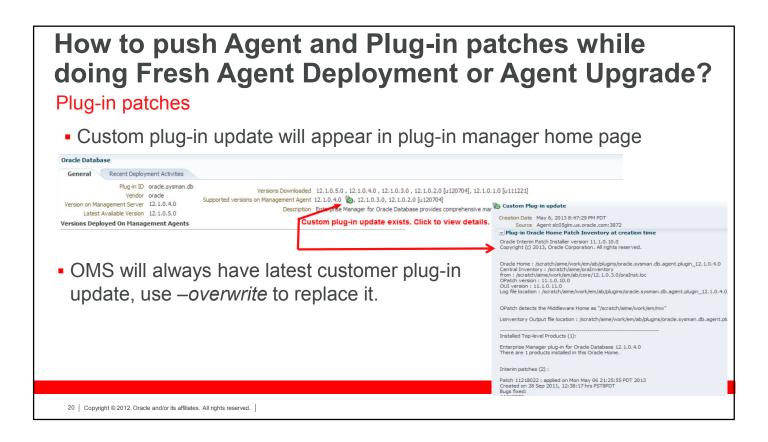
- Select a test Management Agent on which the preferred plug-ins are already deployed and apply required patches
- Create a custom plug-in update using the following command:

```
emcli create_custom_plugin_update
-agent_name="agent_name"
-plugin_id="plugin_id"
[-overwrite]
```

- Custom plug-in update will be for each plug-in type, it zips up the plug-in home on the target agent
- One can see a list of all custom plug-in updates created:

emcli list custom plugin undates

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Documentation

- Install guide is the single source of truth
- Always refer to the Install guide
- You can get the Install guide from:

http://www.oracle.com/technetwork/indexes/documentation/index.html#em

- Installation and Upgrade collateral page on OTN
 http://www.oracle.com/technetwork/oem/install-upgrade-496677.html
- View EM 12.1.0.3 Agent Push using EM CLI demo recording from : http://www.oracle.com/technetwork/oem/install-upgrade-496677.html

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