

Instalación de Agente con Grid Control de Oracle 11g

Cuando trabajamos con Grid Control de Oracle 11g, no disponemos de la instalación directa por medio de Oracle Universal Installer GUI como lo veniamos haciendo en la versión 10gR2.

Hoy vamos a instalar nuestro agente cliente en los servidores que vamos a monitorear con EM Grid Control.

El mecanismo que vamos a utilizar es el clonate agent.

Lo haremos mediante la consola grafica de EM Grid Control.

Antes de comenzar con la instalación del mismo, es preciso que tengamos en cuenta los siguientes puntos:

- Tener presente en que servidor vamos a instalar nuestro agente.
- Conocer el usuario y contraseña del Usuario del servidor donde vamos a instalar.
- Conocer en que path va ser instalado el agente y revisar que el usuario cuente con los permisos necesarios para poder escribir.
- Conocer el passwor del Server Agent Management.

En la consola de EM Grid Control vamos al tag :

1. DEVELEOPMENTS
1. AGENT INSTALLATION
1. INSTALL AGENT

The screenshot shows the Oracle Enterprise Manager Grid Control 11g interface. The top navigation bar includes Home, Targets, Deployments, Alerts, Compliance, Jobs, Reports, and My Oracle Support. The main content area is titled 'Deployments' and contains several sections:

- Recommended Security Patches:** Shows 'Security Recommendations Unavailable' with a note that Oracle Support credentials are required.
- Deployments Summary:** A table showing database installations and their status.

Database Installations	Targets	Installations	Patches Applied
Oracle Database 10g 10.1.0.4.0	1	1	No
Oracle Database 10g 10.2.0.1.0	0	1	No
Oracle Database 10g 10.2.0.3.0	1	2	Yes
Oracle Database 10g 10.2.0.4.0	55	95	Yes
- Configuration:** Links for Search, Compare Configuration, and View Saved Configurations.
- Patching:** Links for Patching through Deployment Procedures and Patch Agent.
- Cloning:** Link for Clone Database.
- Client Configurations:** Links for Getting Started With Client System Analyzer and Client System Analyzer in Grid Control.
- Deployment Procedure Manager:** Links for Getting Started with Deployment Procedure Manager and Database Provisioning Procedures.

On the right side, there is an 'Overview' section with a list of actions: Perform searches on the detailed information, Compare the detailed information of hosts and databases, Search My Oracle Support for patches, Clone a database or Oracle home to an alternative location, Manage the configuration collection process, and Orchestrate Provisioning and Patching through Deployment Procedures.

En las opciones que se nos presentan, nosotros debemos elegir:

1. Clone Agent

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Install Agent Status Help

Cancel

Select the type of Agent Deployment that you want to perform:

Fresh Install
Install agent on one or more hosts.

Clone Agent
Clone an existing agent to one or more hosts.

Add Host to Shared Agent
Use an existing shared agent installation to manage one or more additional hosts.

Upgrade Agent
Upgrade an existing agent installation on one or more hosts. You can upgrade agents to a major release only, for example, 10.2 to 11.1.

Less Information
Perform an installation from the stage software available with this management server, or select a different stage software. You can do a normal install, or a cluster-based install. Identify, and make note of the destination directory (same on all hosts), login credentials (same on all hosts), and any pre/post-install scripts you want to execute.

Less Information
You can clone an agent installation that has been well tested and patched to multiple hosts. Identify, and make note of the destination directory (same on all hosts), login credentials (same on all hosts), and any pre/post-install scripts you want to execute.

Less Information
You will set up additional hosts to be managed by an existing agent installation, by having NFS visibility between the existing agent and the target host. You will be asked for a directory for log and state information for each host, and any additional pre- or post-install scripts you want to run.

Less Information
You can upgrade agents to a major release only, for example, 10.2.0.4.0 or 10.2.0.5.0 to 11.1.x.x.x. You cannot upgrade agents from 10.2.0.x.0 to 10.2.0.y.0 using this application. For such upgrades go to 'Patch Agents' under 'Deployments' from the console home page. Identify, and make note of the current agent home (same on all hosts), the destination directory (same on all hosts), login credentials (same on all hosts), and any pre/post-install scripts you want to execute.

Install Agent | Status | Help

Cancel

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Esta opción toma el agente del path del servidor de EM Grid Control y lo clona en el path que nosotros le pasemos como parámetro.

Ahora vamos a profundizar en la instalación ya que al elegir la opción **Clone Agent**, nos despliega una página donde debemos completar los datos necesarios.

Vamos a comenzar con los cuatro primeros:

Source Agent

- **Source Agent Home:** Colocamos el path donde se encuentra el agente que vamos a clonar.
- **CheckBox | Source Agent Home on OMS:** Agregamos el tilde, ya que los "Sources Agent Home" se encuentra en nuestro servidor OMS.

Host

- **Platform :** Elejimos la plataforma de nuestro OS y su arquitectura x86 | x86_64 | Sparc | etc.
- **Provide Host List:** Colocamos un unico servidor a instalar o una lista de servidores.
- **Cluster Name:** Esta opcion la utilizamos en el caso que el servidor donde vamos a instalar es parte de un cluster, al poner el nombre del cluster que tenemos configurado en EMGC, instalara los agentes en los nodos miembros.

OS Credential

- **Username:** Usuario que tiene privilegios para escribir en el path que elejimos y que sera dueño del agente, en la mayoría de los casos su utiliza oracle, pero por politicas de seguridad puede

ser otro usuario que tenga privilegios suficientes.

- **Password:** Colocamos la password que posee el usuario elegido en el paso anterior.
- **Run root.sh :** Recordemos elegir esta opción cuando nuestro usuario elegido tenga permisos de sudo.

Destination

- **Installation Base Directory:** Colocamos el path donde sera instalado nuestro agente, en este caso yo eleji el colo a continuación `/u01/app/oracle/Middleware/`

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Install Agent

Agent Clone: Installation Details

You can clone an existing agent to multiple hosts. Make sure that all the selected hosts have the same credentials and file system structure. Cancel Continue

Source Agent
This is the full path for the source agent home from which you want to clone the agent, or the full path for the zip file of the archived agent home. This path should be accessible either from all the target machines or from the Oracle Management Server

* Source Agent Home
Example: /net/host1/scratch/oracle/agent10g

Source Agent Home on OMS
Check this if the "Source Agent Home" is present on Oracle Management Server.

Hosts
The list of hosts, specified here, should be separated by comma, spaces or newline. You can use either the Name, or IP Address to specify Hosts.

Platform
This list is determined by the staged software available on Management Server.

* Provide Host List
Example: host1,host2,168.78.5.118, ... Get Host Names From File

Allow local hostname to override provided hostname
Caution: Choose this option if locally defined hostname is reachable.

Cluster Name
Name of the cluster target to be appeared for monitoring in the console.

OS Credential
OS credentials must be the same on all the hosts.

* Username
* Password
* Confirm Password

Run root.sh
User account should be enabled for sudo to run root.sh. It can be run manually after installation.

Destination

* Installation Base Directory
The Oracle home directory will be created as a sub-

Ahora seguimos con los pasos siguientes en el misma pagina haciendo scroll.

Port

- **Port :** Colocamos el port que utilizaremos o que tenemos configurado en nuestras reglas de firewall , en mni caso utilizaré el port **3872**.

Management server security

- **Management server registration password :** Colocamos la password del Administrador del

repositorio de la base del OMS. (sysman)

OS credentials must be the same on all the hosts.

* Username
* Password
* Confirm Password

Run root.sh
User account should be enabled for sudo to run root.sh. It can be run manually after installation.

Destination

* Installation Base Directory
The Oracle home directory will be created as a sub-directory under this directory.

Port
Specify appropriate port for Agents

Port
If not specified, a free port will be selected within the default range [1830-1849].

Additional Parameters
Additional parameter to agent installation can be provided here.

Additional Parameters
All options to Oracle Universal Installer(OUI) are valid. Example: -invPtrLoc /home/orainst.loc

Management Server Security
If you want to secure communications to the Management Server, specify the registration password here, or get the approval of a super administrator to add new agents to Enterprise Manager after the installation is complete.

Management Server Registration Password
Confirm Password

Additional Scripts
Optionally, you can choose to execute additional scripts before the installation is initiated, and after it is completed.

Pre-Installation Script File
Note that the script specified here needs to be present on all the remote hosts in the path specified.

Run as Superuser.
User should be enabled for sudo.

Post-Installation Script File
Note that the script specified here needs to be present on all the remote hosts in the path specified.

Run as Superuser.
User should be enabled for sudo.

Install Agent | [Help](#)

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Cuando ya completamos todos los campos y nuestra configuración se encuentra lista cliqueamos en el botón que se encuentra abajo a la derecha: **Continue**.

Ahora aparece en pantalla " My oracle Support Details". Acá no es preciso completar nada ya que no estamos por hacer un download del soporte ni vamos a solicitar ningún control de seguridad, por que en mi caso recibo la información de los patch por otro canal y decido si los aplico o no.

Cliqueamos **Submit**.

Nota**

En caso de haber elegido contar con el soporte de Oracle Support, deben completar con las credenciales correspondientes y configurar su proxy local.

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My Oracle Support Details

Provide your email address to be informed of security issues, install the product and initiate Configuration Manager. [View details.](#)

Email
Easier for you if you use your My Oracle Support Email address/ Username

I wish to receive security updates via My Oracle Support.

My Oracle Support Password

Connection Details
Specify proxy server information for the Host target that will be monitored by the new agent.

Proxy Server
Proxy Port
Proxy Username
Proxy Password

Cancel Submit

Install Agent | [Help](#)

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Ahora nos aparece una última pantalla donde nos vuelve a preguntar si estamos seguros de no querer ser informados por oracle acerca los problemas críticos que pudiesen existir en nuestra configuración.

Yo elijo la opción **YES**.

En el caso de haber elegido el soporte en el paso previo, este mensaje no aparecerá.

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Email Address Not Specified.

You have not provided an email address for security issues.

Do you wish to remain uninformed of critical security issues in your configuration?

No Yes

Install Agent | [Help](#)

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Ahora comienza la instalación en el servidor de destino del agente o cliente.

Lo primero que hace es verificar que los datos de conexión que le pasamos como parametro sean validos.

Cuando esto haya sido chequeado, controla que se cumplan los requisitos de oracle, como permisos, librerías, etc.

Siempre colocara un tilde verde si la prueba es correcta.

The screenshot shows the Oracle Enterprise Manager Grid Control 11g interface. The top navigation bar includes 'ORACLE Enterprise Manager Grid Control 11g' on the left and 'Help Install Agent' on the right. The main content area is titled 'Checking Prerequisites' and contains three sections: 'Checking Connection' (with a green checkmark), 'Checking Prerequisites' (with a right-pointing arrow), and 'Installing'. Each section has a brief description of its function. At the bottom, there is a copyright notice and a link to 'Install Agent | Help'.

Cuando se hayan cumplido el control de conexión y prerequisites, comenzará a escribir en el path los archivos binarios, en otras palabras comenzara la clonacion y seteara los permisos necesarios.

En el caso de no haber configurado el sudo, recordemos ejecutar el script root.sh que se encuentra en el \$ORACLE_HOME del agente instalado.

The screenshot shows the Oracle Enterprise Manager Grid Control 11g interface during the 'Installing' phase. The top navigation bar is the same as in the previous screenshot. The main content area is titled 'Installing' and contains three sections: 'Checking Connection' (with a green checkmark), 'Checking Prerequisites' (with a green checkmark), and 'Installing' (with a right-pointing arrow). Each section has a brief description of its function. At the bottom, there is a copyright notice and a link to 'Install Agent | Help'.

Cuando el agente haya finalizado el proceso, nos desplegara una pantalla con todo detalle de la instalación y una vez que revisamos todo, damos en done.

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Agent Installation Session Details

Done Create Like Status Home

Session Information

Session Initiated Date Time Monday, June 13, 2011 12:19:30 PM ART

User Inputs

Install Type	Agent Clone
Platform	linux_x64
Installation Base Dir	/u01/app/oracle/Middleware/
Remote Host Names	sdat4112lx
Source Agent Home	/u01/app/oracle/Middleware/agent11g
Source Agent Home on OMS	Selected
Allow local hostname to override provided hostname	Not Selected
Username	oracle
Run root.sh	Not Selected
Port	3872
Additional Parameters	Not Specified
Management Server Registration Password	****
Pre-Install Script	Not Specified
Post-Install Script	Not Specified

Prerequisite Details

To view the prerequisite details [Click Here](#)

Host Name	Status	Application Prerequisite Logs	System Prerequisite Logs
sdat4112lx	Success	<ORACLE_HOME>/sysman/prov/agentpush/2011-06-13_12-19-30-PM/prereqs/entrypoints/emagent_clone/sdat4112lx	<ORACLE_HOME>/sysman/prov/agentpush/2011-06-13_12-19-30-PM/prereqs/entrypoints/oracle.sysman.top.agent_Complete/sdat4112lx
localnode	Success	<ORACLE_HOME>/sysman/prov/agentpush/2011-06-13_12-19-30-PM/prereqs/entrypoints/connectivity/local	Not Applicable

Install Details

The Installation on all the nodes was Successful

Host Name	Status	Agent Status	Logs
sdat4112lx	Success	<ORACLE_HOME>/sysman/prov/agentpush/2011-06-13_12-19-30-PM/logs/sdat4112lx/agentStatus.log	<ORACLE_HOME>/sysman/prov/agentpush/2011-06-13_12-19-30-PM/logs/sdat4112lx

Done Create Like Status Home

Status

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Una vez finalizada la tarea podemos logueranos al host y ejecutar :

```
$ emctl status agent
```

Regards !

ATENCION:
El presente documento fue escrito con fines educativos y no comerciales.