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# Add Linux Target to OEM via Pull Method

This article describes the steps to add Linux target (OEL 7) to Oracle Enterprise Manager 13c via Pull Method.

- [Environment Setup](#)
- [Pull OEM Agent](#)

**Note:** *There are two methods to deploy agents: Pull and Push method.*

**Also Read:** [Add Linux Target to OEM 13c via Push Method](#)

## Environment Setup

For this activity, I setup an OEL 7.6 vm with 4 GB RAM and 100 GB hard disk. You can setup same OEL 7.6 vm via below article.

Install Oracle Linux on VirtualBox (OEL 7.7)

Next, you will have to install Oracle 12cR2. I have used below articles to install Oracle 12cR2 and create a database

Oracle 12cR2 silent installation on Oracle Linux 7

Create 12cR2 database in silent mode

Install below packages as they are required by OEM to install Agent on this target machine

```
yum install make -y
yum install binutils -y
yum install gcc -y
yum install libaio -y
yum install glibc-common -y
```

```
yum install libstdc++ -y
yum install sysstat -y
yum install glibc -y
yum install glibc-devel.i686 -y
yum install glibc-devel -y
yum install libXtst -y
```

## Pull OEM Agent

Create agent home directory

```
su - oracle

mkdir -p /u01/app/oracle/agent
```

Create response file for the agent installation

```
vi /tmp/em_agent.rsp

LOGIN_USER=SYSMAN
LOGIN_PASSWORD=Timepass$123
PLATFORM="Linux x86-64"
VERSION=13.3.0.0.0
AGENT_REGISTRATION_PASSWORD=Timepass$123
AGENT_BASE_DIR=/u01/app/oracle/agent
AGENT_INSTANCE_HOME=/u01/app/oracle/agent/agent_inst
AGENT_PORT=3872
EM_UPLOAD_PORT=4903
OMS_HOST=test.dbagenesis.com
ORACLE_HOSTNAME=dev.dbagenesis.com
```

Download the **AgentPull.sh** script from OMS. Make sure to replace your OEM console IP address in the below link

```
curl -sk https://192.168.0.171:7803/em/install/getAgentImage >
/tmp/AgentPull.sh
```

Give execute permissions

```
chmod 775 /tmp/AgentPull.sh
```

## Install agent

```
/tmp/AgentPull.sh -ignorePrereqs RSPFILE_LOC=/tmp/em_agent.rsp
```

## Execute the root.sh scripts

As root user

```
=====
```

```
/u01/app/oracle/agent/agent_13.3.0.0.0/root.sh
```

Add database instance and listener to agent monitoring. First we will download and install emcli. In case wget is not installed, you can install it "yum -y install wget" command

```
export
```

```
JAVA_HOME=/u01/app/oracle/agent/agent_13.3.0.0.0/oracle_common/jdk/jre
```

```
wget -P /tmp/emcli --quiet --no-check-certificate
```

```
https://192.168.0.171:7803/em/public_lib_download/emcli/kit/emclikit.jar
```

```
${JAVA_HOME}/bin/java -jar /tmp/emcli/emclikit.jar -  
install_dir=/tmp/emcli
```

## Configure emcli client

```
/tmp/emcli/emcli setup -url=https://192.168.0.171:7803/em -  
username="sysman" -dir="/tmp/emcli/conf" -trustall -noregister -  
noautologin
```

## Create a **commands file** for emcli

```
echo "add_target -name=\"dev.dbagenesis.com_listener\" -  
type=\"oracle_listener\" -host=\"dev.dbagenesis.com\" -  
properties=\"LsnrName:LISTENER;ListenerOraDir:/u01/app/oracle/product/1  
2.2.0.1/network/admin;Port:1521;OracleHome:/u01/app/oracle/product/12.2  
.0.1;/Machine:dev.dbagenesis.com;\"" >> "/tmp/emcli/emclicommands.txt"
```

```
echo "add_target -name=\"dev.dbagenesis.com_test\" -  
type=\"oracle_database\" -host=\"dev.dbagenesis.com\" -  
credentials=\"UserName:dbsnmp;password:ORACLE;Role:Normal\" -  
properties=\"SID:devdb;Port:1521;OracleHome:/u01/app/oracle/product/12.  
2.0.1;/MachineName:dev.dbagenesis.com;\"" >>  
"/tmp/emcli/emclicommands.txt"
```

## Execute the command file

```
/tmp/emcli/emcli sync
```

```
/tmp/emcli/emcli argfile /tmp/emcli/emclicommands.txt
```