

HPE

Installation Guide - MDM 10.4 HotFix 2 (DEVELOPMENT)



Project:	HPE EMDM IDQ 10.4.1 Installation in Linux OS hosted in HPE Colo Cloud
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Document Information

The purpose of this guide is to provide basic information about the server, infrastructure, and MDM Installation for Development instance installed in HPE COLO Cloud

Document Edit History

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1. 1. Introduction

Master data management (**MDM**) is the effort made by an organization to create one single master reference source for all critical business data, leading to fewer errors and less redundancy in business processes.

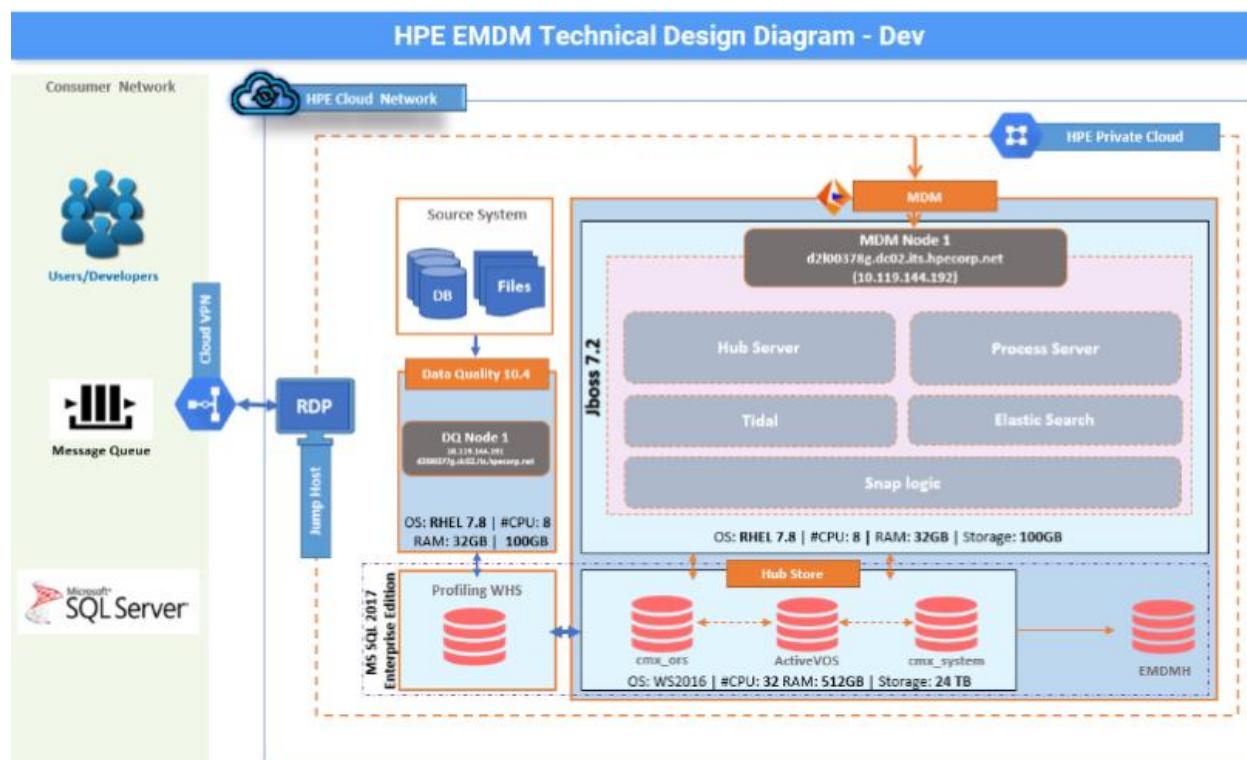
MDM is of particular interest to large organizations, highly data distributed organizations, and those that have frequent or large-scale merger and acquisition activity. Acquiring another company creates wide-reaching data integration challenges that MDM is designed to mitigate. Thus, MDM can accelerate the time-to-value from an acquisition.

MDM also helps companies with segmented product lines, preventing disintegrated customer experiences.

2. Environment Configuration

2.1 System Architecture

The following system architecture is in plan for the project for Development environment.



2.2 Environment Configuration

This table depicts the system configuration, IP, and software details of the environment:

- ✓ Elastic Search Version: **elasticsearch-6.2.3**
- ✓ Jboss Version: **jboss-eap-7.2**
- ✓ JDK Version: **Azul Zulu 8**

IP	Host Name	Application
10.119.144.191	d2l00377g.dc02.its.hpecorp.net	Data Quality Node
10.119.144.192	d2l00378g.dc02.its.hpecorp.net	MDM Node
10.119.144.190	d2wg10984.americas.hpqcorp.net	SQL Database
16.229.27.194	P2WOO21OG	RDP

3. Create Folder Structure

Make below folder structure in MDM node1 and Node 2 Servers.

```
/opt/java/sw_install  
/opt/jboss/java  
/opt/jboss/jboss-eap-7.2/  
/opt/infa/mdm/
```

Node 1: Directories under /opt/infa

Node 2: Directories under /opt/jboss

```
[infamgr@d2l00378g sw_install]$ cd /opt/infa  
[infamgr@d2l00378g infa]$ ls -ltr  
total 5856  
drwxrwxr-x. 2 infamgr infamgr 4096 Apr  9 10:08 DEV  
drwxrwsr-x. 3 infamgr infamgr 67 Apr 12 08:55 elasticsearch  
-rwxrwxr-x. 1 infamgr infamgr 720542 Apr 13 17:23 server.log  
drwxrwxr-x. 2 infamgr infamgr 80 Apr 13 17:25 logs_20210413  
-rwxrwxr-x. 1 infamgr infamgr 5246616 Apr 13 17:26 logs_20210413.tar.gz  
-rwxrwxr-x. 1 infamgr infamgr 22717 Apr 13 17:33 log.tar.gz  
drwxrwxr-x. 3 infamgr infamgr 18 Apr 14 14:30 infa_shared  
drwxrwxr-x. 8 infamgr infamgr 85 Apr 20 11:16 mdm  
[infamgr@d2l00378g infa]$ cd /opt/jboss  
[infamgr@d2l00378g jboss]$ ls -ltr  
total 5864860  
-rwxrwxrwx. 1 infamgr infamgr 6005606400 Mar 15 11:02 install.tar  
drwxrwxr-x. 3 infamgr infamgr 51 Mar 22 09:42 java  
drwxrwxrwx. 2 infamgr infamgr 6 Mar 30 16:32 test  
drwxrwxrwx. 3 infamgr infamgr 28 Apr 12 08:50 tmp  
drwxr-x--. 4 infamgr infamgr 37 Apr 14 14:24 zyme  
drwxrwxr-x. 13 infamgr infamgr 4096 Apr 14 14:34 jboss-eap-7.2  
drwxrwxr-x. 4 infamgr infamgr 37 Apr 20 13:37 dataloader  
drwxrwxrwx. 10 infamgr infamgr 4096 Apr 20 13:37 sv_install  
drwxrwxrwx. 5 infamgr infamgr 203 Apr 21 11:59 stage  
[infamgr@d2l00378g jboss]$
```

4. Update Ulimit

/etc/security/limits.conf -- make changes to the ulimit in this file as per below values in both the Nodes.

```
infamgr soft nofile 65536  
infamgr hard nofile 65536  
infamgr soft nproc 20480  
infamgr hard nproc 20480  
infamgr soft stack 10240  
infamgr hard stack 10240  
infamgr soft memlock unlimited  
infamgr hard memlock unlimited
```

and **run sysctl -w vm.max_map_count=262144** as root user

5. Setup Java in MDM Server

5.1 Download JDK to ES node

Unzip the AZUL_ZULU_JDK.zip jdk.

5.2 Extract the jdk-8u231-linux-x64.tar.gz file

Extract the tar file and copy the extracted folder to the /opt/java/ directory.

5.3 Set JAVA_HOME environment Variable in .bash_profile in the MDM node

```
[infamgr@d2100378g jboss]$ echo $JAVA_HOME  
/opt/jboss/java/zulu8.40.0.20-sa-jdk8.0.222-linux_x64  
[infamgr@d2100378g jboss]$
```

6. Setup Jboss

6.1. Copy Jboss to MDM Server

The JBOSS Server binaries are copied to the /opt/jboss/sw_install directory

6.2. Extract Jboss and set environment variable

Extract JBOSS to the /opt/jboss/jboss-eap-7.2 directory and set the JAVA_HOME directory

6.3. Create Jboss users

- Create Jboss Management user for Jboss user in Node1 Go to the path **/app/jboss/jboss-eap-7.2/bin** and run the script add-user.sh as shown below.

jbossadmin	jboss@dmin99#
------------	-------------------------------

- Create Jboss Application User for ActiveVOS user. Similarly create another user for ActiveVOS as shown below.

avadmin	avos@dmin99#	abAdmin,abTrust,abServiceConsumer,abTaskClient
---------	------------------------------	------------------------------------------------

```
[infamgr@d2100378g bin]$ ./add-user.sh

What type of user do you wish to add?
a) Management User (mgmt-users.properties)
b) Application User (application-users.properties)
(a) : a

Enter the details of the new user to add.

Using realm 'ManagementRealm' as discovered from the existing property files.

Username : jbossadmin

Password recommendations are listed below. To modify these restrictions edit the add-
user.properties configuration file.
```

```
- The password should be different from the username
- The password should not be one of the following restricted values {root, admin,
administrator}

- The password should contain at least 8 characters, 1 alphabetic character(s), 1 digit(s), 1
non-alphanumeric symbol(s)

Password :

Re-enter Password :

What groups do you want this user to belong to? (Please enter a comma separated list, or leave
blank for none) [ ]:

About to add user 'jbossadmin' for realm 'ManagementRealm'

Is this correct yes/no? yes

Added user 'jbossadmin' to file '/opt/jboss/jboss-eap-7.2/standalone/configuration/mgmt-
users.properties'

Added user 'jbossadmin' to file '/opt/jboss/jboss-eap-7.2/domain/configuration/mgmt-
users.properties'

Added user 'jbossadmin' with groups to file '/opt/jboss/jboss-eap-
7.2/standalone/configuration/mgmt-groups.properties'

Added user 'jbossadmin' with groups to file '/opt/jboss/jboss-eap-
7.2/domain/configuration/mgmt-groups.properties'

Is this new user going to be used for one AS process to connect to another AS process?
e.g. for a slave host controller connecting to the master or for a Remoting connection for
server to server EJB calls.

yes/no? yes

To represent the user add the following to the server-identities definition <secret
value="amJvc3NAZG1pbjk5Iw==" />

[infamgr@d2100378g bin]$ ./add-user.sh

What type of user do you wish to add?
a) Management User (mgmt-users.properties)
b) Application User (application-users.properties)

(a): b

Enter the details of the new user to add.

Using realm 'ApplicationRealm' as discovered from the existing property files.

Username : avadmin

Password recommendations are listed below. To modify these restrictions edit the add-
user.properties configuration file.

- The password should be different from the username
- The password should not be one of the following restricted values {root, admin,
administrator}

- The password should contain at least 8 characters, 1 alphabetic character(s), 1 digit(s), 1
non-alphanumeric symbol(s)

Password :

Re-enter Password :

What groups do you want this user to belong to? (Please enter a comma separated list, or leave
blank for none) [ ]: abAdmin,abTrust,abServiceConsumer,abTaskClient
```

```
About to add user 'avadmin' for realm 'ApplicationRealm'  
Is this correct yes/no?  
About to add user 'avadmin' for realm 'ApplicationRealm'  
Is this correct yes/no? yes  
Added user 'avadmin' to file '/opt/jboss/jboss-eap-7.2/standalone/configuration/application-users.properties'  
Added user 'avadmin' to file '/opt/jboss/jboss-eap-7.2/domain/configuration/application-users.properties'  
Added user 'avadmin' with groups abAdmin,abTrust,abServiceConsumer,abTaskClient to file '/opt/jboss/jboss-eap-7.2/standalone/configuration/application-roles.properties'  
Added user 'avadmin' with groups abAdmin,abTrust,abServiceConsumer,abTaskClient to file '/opt/jboss/jboss-eap-7.2/domain/configuration/application-roles.properties'  
Is this new user going to be used for one AS process to connect to another AS process?  
e.g. for a slave host controller connecting to the master or for a Remoting connection for server to server EJB calls.  
yes/no? yes  
To represent the user add the following to the server-identities definition <secret value="YXZvc0BkbWluOTkj" />  
[infamgr@d2100378g bin]$
```

6.4. Configure Jboss Application Server

6.4.1. Update standalone.conf

Go to path: /app/jboss/jboss-eap-7.2/bin and take a backup of standalone.conf and do the following changes in MDM Server

```
if [ "x$JAVA_OPTS" = "x" ]; then  
    #JAVA_OPTS="-Xms1303m -Xmx1303m -XX:MetaspaceSize=96M -XX:MaxMetaspaceSize=256m -  
Djava.net.preferIPv4Stack=true"  
    JAVA_OPTS="-Xms2048m -Xmx6144m -XX:MetaspaceSize=96M -XX:MaxMetaspaceSize=2048m -  
Djava.net.preferIPv4Stack=true"  
    JAVA_OPTS="$JAVA_OPTS -Djboss.modules.system.pkgs=$JBOSS_MODULES_SYSTEM_PKGS -  
Djava.awt.headless=true"  
else  
    echo "JAVA_OPTS already set in environment; overriding default settings with values:  
$JAVA_OPTS"  
fi  
  
###Begin Informatica recommended java options  
#### Blocking Timeout  
JAVA_OPTS="$JAVA_OPTS -Djboss.as.management.blocking.timeout=5000"  
#  
#### For IDD screens based on E360  
JAVA_OPTS="$JAVA_OPTS -De360.connection.channel=HTTP"  
JAVA_OPTS="$JAVA_OPTS -De360.mdm.host=d2100378g.dc02.its.hpecorp.net"  
JAVA_OPTS="$JAVA_OPTS -De360.mdm.port=8180"  
#  
#JAVA_OPTS="-DFrameworksLogConfigurationPath=/opt/log4j.xml"  
#  
#### For IDD with Subjet Areas  
JAVA_OPTS="$JAVA_OPTS -Didd.protocol=HTTP"  
JAVA_OPTS="$JAVA_OPTS -Didd.mdm.host=d2100378g.dc02.its.hpecorp.net"  
JAVA_OPTS="$JAVA_OPTS -Didd.mdm.port=8180"  
#
```

```
##### To use Informatica Data Director and use REST APIs to search for records
JAVA_OPTS="$JAVA_OPTS -Dfile.encoding=UTF-8"
JAVA_OPTS="$JAVA_OPTS -Dorg.apache.catalina.connector.URI_ENCODING=UTF-8"
#
#####search must return records that contain search values in the same child node
JAVA_OPTS="$JAVA_OPTS -DUseESLegacyFqSearch=false"
#
#####
For setting max size of HTTP headers
JAVA_OPTS="$JAVA_OPTS -Dorg.apache.coyote.http11.Http11Protocol.MAX_HEADER_SIZE=16384"
#
#####
Specifies the maximum number of ActiveVOS tasks that are retrieved for each request
JAVA_OPTS="$JAVA_OPTS -Dtask.pageSize=5500"
#
#####
Specifies whether the JVM disposes of compiled code when the code cache is full
JAVA_OPTS="$JAVA_OPTS -XX:+UseCodeCacheFlushing"
#
#####
Specifies whether web browsers must convert all attempts to access Data Director using the
HTTP requests to the HTTPS requests instead
JAVA_OPTS="$JAVA_OPTS -DstrictTransportSecurity.flag=true"

#####
JIT code cache size. To enhance the performance of the MDM Hub environment
JAVA_OPTS="$JAVA_OPTS -XX:ReservedCodeCacheSize=512m"
```

Keep the below piece of code in standalone.conf as shown below.

```
if [ "$JAVA_OPTS" = "x" ]; then
    JAVA_OPTS="-Xms1303m -Xmx1303m -XX:MetaspaceSize=96M -XX:MaxMetaspaceSize=256m -Djava.net.preferIPv4Stack=true"
    JAVA_OPTS="-Xms2048m -Xmx8144m -XX:MetaspaceSize=96M -XX:MaxMetaspaceSize=2048m -Djava.net.preferIPv4Stack=true"
    JAVA_OPTS="$JAVA_OPTS -Dboss.modules.system_pkgs=%JBoss_MODULES_SYSTEM_PKGS -Djava.awt.headless=true"
else
    echo "JAVA_OPTS already set in environment; overriding default settings with values: $JAVA_OPTS"
fi

#####
Begin Informatica recommended java options
#####
Blocking Timeout
JAVA_OPTS="$JAVA_OPTS -Djboss.as.management.blocking.timeout=5000"
#
#####
For IDD screens based on E360
JAVA_OPTS="$JAVA_OPTS -De360_connection_channel=HTTP"
JAVA_OPTS="$JAVA_OPTS -De360_mdm_host=d2100378g.dc02.its.hpecorp.net"
JAVA_OPTS="$JAVA_OPTS -De360_mdm_port=8180"
#
JAVA_OPTS="-DFrameworksLogConfigurationPath=/opt/log4j.xml"
#
#####
For IDD with Subjet Areas
JAVA_OPTS="$JAVA_OPTS -Didd.protocol=HTTP"
JAVA_OPTS="$JAVA_OPTS -Didd.mdm.host=d2100378g.dc02.its.hpecorp.net"
JAVA_OPTS="$JAVA_OPTS -Didd.mdm.port=8180"
#
#####
To use Informatica Data Director and use REST APIs to search for records
JAVA_OPTS="$JAVA_OPTS -Dfile.encoding=UTF-8"
JAVA_OPTS="$JAVA_OPTS -Dorg.apache.catalina.connector.URI_ENCODING=UTF-8"
#
#####search must return records that contain search values in the same child node
JAVA_OPTS="$JAVA_OPTS -DUseESLegacyFqSearch=false"
#
#####
For setting max size of HTTP headers
JAVA_OPTS="$JAVA_OPTS -Dorg.apache.coyote.http11.Http11Protocol.MAX_HEADER_SIZE=16384"
#
#####
Specifies the maximum number of ActiveVOS tasks that are retrieved for each request
JAVA_OPTS="$JAVA_OPTS -Dtask.pageSize=5500"
#
#####
Specifies whether the JVM disposes of compiled code when the code cache is full
JAVA_OPTS="$JAVA_OPTS -XX:+UseCodeCacheFlushing"
#
#####
Specifies whether web browsers must convert all attempts to access Data Director using the HTTP requests to the HTTPS requests instead
JAVA_OPTS="$JAVA_OPTS -DstrictTransportSecurity.flag=true"

#####
JIT code cache size. To enhance the performance of the MDM Hub environment
JAVA_OPTS="$JAVA_OPTS -XX:ReservedCodeCacheSize=512m"

#####
End of Informatica recommended java options
#
# enable garbage collection logging if not set in environment differently
if [ "$GC_LOG" = "x" ]; then
    GC_LOG="true"
else
    echo "GC_LOG set in environment to $GC_LOG"
fi
~
```

6.4.2. Update standalone-full.xml

Go to `/app/jboss/jboss-eap-7.1/standalone/configuration/standalone-full.xml` and take a backup. Also make below changes in MDM Server

```
[infamgr@d2100378g bin]$ ./jboss-cli.sh --connect
[standalone@localhost:9990 /] /subsystem=transactions:write-attribute(name=default-timeout,value=3600)
```

```
{"outcome" => "success"}  
  
[standalone@localhost:9990 /] /socket-binding-group=standard-sockets/socket-  
binding=remoting:add(port=4447)  
{"outcome" => "success"}  
  
[standalone@localhost:9990 /] /subsystem=undertow/server=default-server/https-  
listener=https/:write-attribute(name=max-post-size,value=20000000)  
{  
    "outcome" => "success",  
    "response-headers" => {  
        "operation-requires-reload" => true,  
        "process-state" => "reload-required"  
    }  
}  
  
[standalone@localhost:9990 /] /subsystem=undertow/server=default-server/http-  
listener=default/:write-attribute(name=max-post-size,value=20000000)  
{  
    "outcome" => "success",  
    "response-headers" => {  
        "operation-requires-reload" => true,  
        "process-state" => "reload-required"  
    }  
}  
  
[standalone@localhost:9990 /] /subsystem=remoting/connector=remoting-connector:add(socket-  
binding=remoting)  
{  
    "outcome" => "success",  
    "response-headers" => {"process-state" => "reload-required"}  
}  
  
[standalone@localhost:9990 /] reload  
[standalone@localhost:9990 /] exit  
[infamgr@d2100378g bin]$
```

Step 1: Update socket binding to public

Step 2: Start Jboss Application Server

Go to **/app/jboss/jboss-eap-7.2/bin** and run below command to start the Jboss server.

```
nohup ./standalone.sh -c standalone-full.xml -b 0.0.0.0 &
```

Step 3:

use command line to update by running below commands. **[/app/jboss/jboss-eap-7.2/bin/jboss-cli.sh]**

```
/socket-binding-group=standard-sockets/socket-binding=remoting:add(port=4447)  
/subsystem=remoting/connector=remoting-connector:add(socket-binding=remoting)
```

Check the below URL to verify Jboss is up and running in both MDM Nodes

7. Hub Store Instalation

Unzip the Database.zip files in window server where MS SQL Database is installed. Please keep below details before you start the installation.

DB Host: d2wg10984.americas.hpqcorp.net
Port: 1155
Username: samdm
Password: xoE5XB4!<j-0FGB
Data Director: "G:\SQLData1\SQLData G:\SQLLogs\SQLLogs\"

7.1. Update Master Database

To update the Master Database, run the installer. **./sip_ant updatemasterdatabase** and enter the below values when prompted.

For upgrade of ORS schema	
Field	Value
Database Type	MSSQL
ORS Host Name	d2wg10984.americas.hpqcorp.net
ORS Schema Port	1155
Database host name	d2wg10984.americas.hpqcorp.net
Enter master database name	cmx_system
Enter master username	cmx_system
Enter master database user password	<u>cmx_system@pwd1</u>
Enter cmx_system database path (C:\MSSQLDATA)	G:\SQLData1\SQLData G:\SQLLogs\SQLLogs\
Enter cmx_system database collation name	SQL_Latin1_General_CI_AS
Enter Location Name	en_US
Enter the DBA user name [sa]	samdm
Enter the DBA password	xoE5XB4!<j-0FGB

```
D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin>sip_ant.bat updatemasterdatabase
-----
Current folder : D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin\
Current script : sip_ant.bat
Parameters : updatemasterdatabase
Sipeian Home : D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin\..\\
Java Home : C:\Program Files\Java\jdk1.8.0_281
Classpath : D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin\..\..\lib\hashing\bcpprov-jdk15on-
1.54.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin\..\..\lib\ant.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin\..\..\lib\xmlapis.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin\..\..\lib\ojdbc7.jar;D:\Informatica MDM 10.4 HF2 DATABASE FILES\database\bin\..\..\lib\xercesImpl.jar;D:\Informatica MDM 10.4 HF2
```

```
_DATABASE_FILES\database\bin..\lib\log4j-
1.2.16.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\siperian-
common.jar;C:\Program Files\Java\jdk1.8.0_281\lib\rt.jar;C:\Program
Files\Java\jdk1.8.0_281\lib\i18n.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..
\\lib\ant-apache-log4j.jar;
-----
D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin>"C:\Program
Files\Java\jdk1.8.0_281\bin\java" -classpath
"D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\hashing\bcpprov-jdk15on-
1.54.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\ant.jar;D:\Informatica
_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\xml-
apis.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\ojdbc7.jar;D:\Informat
ica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\xercesImpl.jar;D:\Informatica_MDM_10.4_HF2_
DATABASE_FILES\database\bin..\lib\log4j-
1.2.16.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\siperian-
common.jar;C:\Program Files\Java\jdk1.8.0_281\lib\rt.jar;C:\Program
Files\Java\jdk1.8.0_281\lib\i18n.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..
\\lib\ant-apache-
log4j.jar;;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\ant-
launcher.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\commons-validator-
1.4.0.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\ojdbc7.jar;D:\Informat
ica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\mssql-jdbc-
7.2.2.jre8.jar;D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\db2jcc.jar;D:\In
formatica_MDM_10.4_HF2_DATABASE_FILES\database\bin..\lib\db2jcc_license_cu.jar"
org.apache.tools.ant.Main updatemasterdatabase
Buildfile: D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin\build.xml
[echo] sip.home = D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database

extract_target_build_number:
[echo] extracting build number...
[unzip] Expanding:
D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\lib\ProductVersion.jar into
D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin
[delete] Deleting directory
D:\Informatica_MDM_10.4_HF2_DATABASE_FILES\database\bin\resources
[echo] Target build number is 10.4.2.0.0.0.10684905

defenvironment:
[echo] Define the target database type
[propertyprompt] Enter database type (ORACLE,MSSQL,DB2) [] :
MSSQL

updatemasterdatabase:
[echo]
[echo] =====
[echo] UPDATEMASTERDATABASE start: 2021 March 05 11:54:48

db.info:
[propertyprompt] Enter the DB hostname. [localhost] :
d2wg10984.americas.hpqcorp.net
[propertyprompt] Enter the DB port number. [1433] :
1155
[localizeEcho] MDM master database name: "cmx_system"

updatemasterdatabase:
[propertyprompt] Enter Master user/database name [cmx_system] :
cmx_system
[propertyprompt] Enter Master user password [] :

[startdatabaseupgrade] connection is successful with
jdbc:sqlserver://d2wg10984.americas.hpqcorp.net:1155
[startdatabaseupgrade] select TABLE_NAME from INFORMATION_SCHEMA.TABLES where TABLE_NAME =
'C_REPOS_DB_VERSION'
[startdatabaseupgrade] Version table c_repos_db_version exists.
[startdatabaseupgrade] select TABLE_NAME from INFORMATION_SCHEMA.TABLES where TABLE_NAME =
'C_REPOS_DB_VERSION'
[startdatabaseupgrade] select internal_version_no, release_name, install_status_str,
start date, end date from c_repos_db_version
```

```
[startdatabaseupgrade] compatibility check: version - 10.4 HF2 / 10.4.2.0.0.0.10684905
[startdatabaseupgrade] SELECT INTERNAL_VERSION_NO FROM C_REPOS_DB_VERSION WHERE
INTERNAL_VERSION_NO='10.4.2.0.0.0.10684905'
[startdatabaseupgrade] Inserting '10.4 HF2' in c_repos_db_version
[startdatabaseupgrade] INSERT INTO C_REPOS_DB_VERSION (INTERNAL_VERSION_NO, RELEASE_NAME,
START_DATE, END_DATE, INSTALL_STATUS_STR) VALUES ('10.4.2.0.0.0.10684905', '10.4 HF2',
CURRENT_TIMESTAMP, CURRENT_TIMESTAMP, 'installing')
[enddatabaseupgrade] DELETE FROM C_REPOS_DB_CHANGE WHERE DB_CHANGE_SCRIPT_NAME = 'GENERATE_KEY'
[enddatabaseupgrade] INSERT INTO C_REPOS_DB_CHANGE (DB_CHANGE_SCRIPT_NAME, CREATE_DATE,
SCRIPT_TYPE_STR, APPLIED_DATE, STATUS_STR, INTERNAL_VERSION_NO) VALUES ('GENERATE_KEY',
CURRENT_TIMESTAMP, 'OBJ', CURRENT_TIMESTAMP, 'OK', '10.4.2.0.0.0.10684905')
[enddatabaseupgrade]
[enddatabaseupgrade] DELETE FROM C_REPOS_DB_CHANGE WHERE DB_CHANGE_SCRIPT_NAME = 'SR2R_GET_KEY'
[enddatabaseupgrade] INSERT INTO C_REPOS_DB_CHANGE (DB_CHANGE_SCRIPT_NAME, CREATE_DATE,
SCRIPT_TYPE_STR, APPLIED_DATE, STATUS_STR, INTERNAL_VERSION_NO) VALUES ('SR2R_GET_KEY',
CURRENT_TIMESTAMP, 'OBJ', CURRENT_TIMESTAMP, 'OK', '10.4.2.0.0.0.10684905')
[enddatabaseupgrade]
[enddatabaseupgrade] UPDATE C_REPOS_DB_VERSION SET INSTALL_STATUS_STR = 'installed', END_DATE =
CURRENT_TIMESTAMP WHERE INTERNAL_VERSION_NO = '10.4.2.0.0.0.10684905'
[enddatabaseupgrade] UPDATE C_REPOS_DB_VERSION SET INSTALL_STATUS_STR = 'verified', END_DATE =
CURRENT_TIMESTAMP WHERE INTERNAL_VERSION_NO = '10.4.2.0.0.0.10684905'
[echo] UPDATERMASTERDATABASE end: 2021 March 05 11:56:58

BUILD SUCCESSFUL
Total time: 2 minutes 9 seconds
SCRIPT FINISHED
D:\Informatica MDM 10.4 HF2 DATABASE FILES\database\bin>
```

7.2. Update ORS Database

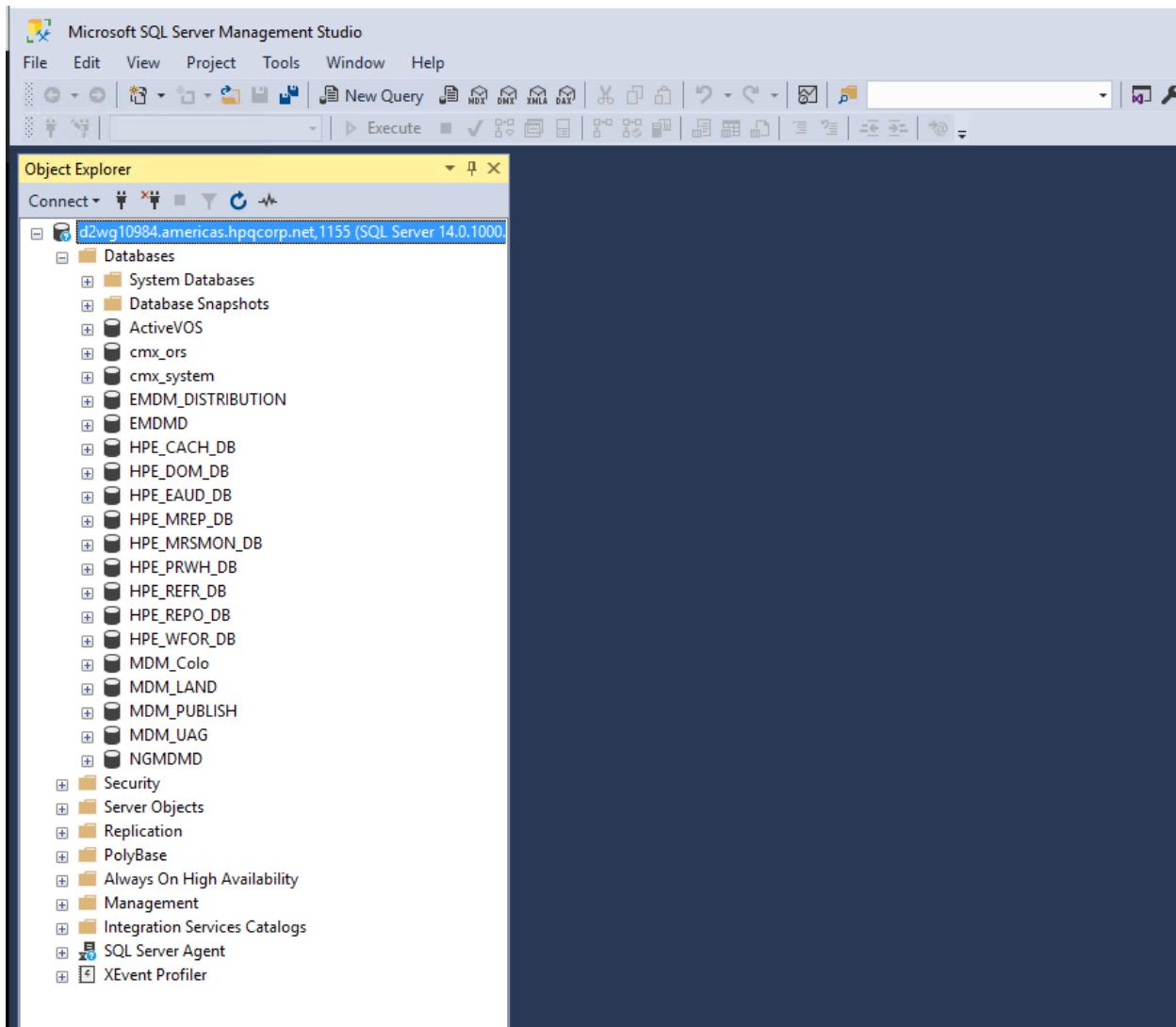
To update the ORS Database, run the installer. **./sip_ant.sh updateorsdatabase** and enter the below values when prompted

For upgrade of ORS schema	
Field	Value
Database Type	MSSQL
Enter the Operational Reference Store schema host name [localhost]	d2wg10984.dc02.its.hpecorp.net
Enter the Operational Reference Store schema name [cmx_ors]	cmx_ors
Enter CMX_ORS database path ["C:\MSSQLDATA"]	SQL_Latin1_General_CI_AS
Enter CMX_ORS database collation name (Latin1_General_CI_AS)	G:\SQLData1\SQLData G:\SQLLogs\SQLLogs\
Enter the Operational Reference Store database user name [cmx_ors]	cmx_ors
Enter the Operational Reference Store database user password	cmx_ors@pwd1
Enter locale name from the list: de, en_US, fr, ja, ko, zh_CN. [en_US]	en_US
Enter the DBA user name [sa]	samdm
Enter the DBA password	xoE5XB4!<-0FGB

```
[enddatabaseupgrade] connection is successful with
jdbc:sqlserver://d2wg10984.americas.hpcorp.net:1155
```

```
[enddatabaseupgrade] select TABLE_NAME from INFORMATION_SCHEMA.TABLES where TABLE_NAME =
'C_REPOS_DB_VERSION'
[enndatabaseupgrade] Version table c_repos_db_version exists.
[enndatabaseupgrade] SELECT CAST(START_DATE AS VARCHAR) FROM C_REPOS_DB_VERSION WHERE
INTERNAL_VERSION_NO = '10.4.2.0.0.0.10684905'
[enndatabaseupgrade] start install date for 10.4.2.0.0.0.10684905 is 2021-04-01
11:44:41.9400000
[enndatabaseupgrade] Updating c_repos_db_change with internal_version_no to 10.4 HF2
[enndatabaseupgrade] UPDATE C_REPOS_DB_CHANGE SET INTERNAL_VERSION_NO = '10.4.2.0.0.0.10684905'
WHERE APPLIED_DATE >= '2021-04-01 11:44:41.9400000' AND APPLIED_DATE <= CURRENT_TIMESTAMP
[enndatabaseupgrade] Updating c_repos_db_change with new/updated store procedures with 10.4 HF2
[enndatabaseupgrade]
[enndatabaseupgrade] select name from sys.all_objects where type in ('X','P', 'FN', 'IF', 'FS',
'TF', 'PC') and modify_date >= CAST('2021-04-01 11:44:41.9400000' as datetime2) and
modify_date <= CURRENT_TIMESTAMP
[enndatabaseupgrade] New or updated store procs - DEBUG_PRINT
[enndatabaseupgrade] New or updated store procs - CONVERT_KEY
[enndatabaseupgrade] New or updated store procs - DB_CHANGE_END
[enndatabaseupgrade] New or updated store procs - DB_CHANGE_START
[enndatabaseupgrade] New or updated store procs - GENERATE_KEY
[enndatabaseupgrade] New or updated store procs - SR2R_GET_KEY
[enndatabaseupgrade] DELETE FROM C_REPOS_DB_CHANGE WHERE DB_CHANGE_SCRIPT_NAME = 'DEBUG_PRINT'
[enndatabaseupgrade] INSERT INTO C_REPOS_DB_CHANGE (DB_CHANGE_SCRIPT_NAME, CREATE_DATE,
SCRIPT_TYPE_STR, APPLIED_DATE, STATUS_STR, INTERNAL_VERSION_NO) VALUES ('DEBUG_PRINT',
CURRENT_TIMESTAMP, 'OBJ', CURRENT_TIMESTAMP, 'OK', '10.4.2.0.0.0.10684905')
[enndatabaseupgrade]
[enndatabaseupgrade] DELETE FROM C_REPOS_DB_CHANGE WHERE DB_CHANGE_SCRIPT_NAME =
'CONVERT_KEY'
[enndatabaseupgrade] INSERT INTO C_REPOS_DB_CHANGE (DB_CHANGE_SCRIPT_NAME, CREATE_DATE,
SCRIPT_TYPE_STR, APPLIED_DATE, STATUS_STR, INTERNAL_VERSION_NO) VALUES ('CONVERT_KEY',
CURRENT_TIMESTAMP, 'OBJ', CURRENT_TIMESTAMP, 'OK', '10.4.2.0.0.0.10684905')
[enndatabaseupgrade]
[enndatabaseupgrade] DELETE FROM C_REPOS_DB_CHANGE WHERE DB_CHANGE_SCRIPT_NAME =
'DB_CHANGE_END'
[enndatabaseupgrade] INSERT INTO C_REPOS_DB_CHANGE (DB_CHANGE_SCRIPT_NAME, CREATE_DATE,
SCRIPT_TYPE_STR, APPLIED_DATE, STATUS_STR, INTERNAL_VERSION_NO) VALUES ('DB_CHANGE_END',
CURRENT_TIMESTAMP, 'OBJ', CURRENT_TIMESTAMP, 'OK', '10.4.2.0.0.0.10684905')
[enndatabaseupgrade]
[enndatabaseupgrade] DELETE FROM C_REPOS_DB_CHANGE WHERE DB_CHANGE_SCRIPT_NAME =
'DB_CHANGE_START'
[enndatabaseupgrade] INSERT INTO C_REPOS_DB_CHANGE (DB_CHANGE_SCRIPT_NAME, CREATE_DATE,
SCRIPT_TYPE_STR, APPLIED_DATE, STATUS_STR, INTERNAL_VERSION_NO) VALUES ('DB_CHANGE_START',
CURRENT_TIMESTAMP, 'OBJ', CURRENT_TIMESTAMP, 'OK', '10.4.2.0.0.0.10684905')
[enndatabaseupgrade]
[enndatabaseupgrade] DELETE FROM C_REPOS_DB_CHANGE WHERE DB_CHANGE_SCRIPT_NAME =
'GENERATE_KEY'
[enndatabaseupgrade] INSERT INTO C_REPOS_DB_CHANGE (DB_CHANGE_SCRIPT_NAME, CREATE_DATE,
SCRIPT_TYPE_STR, APPLIED_DATE, STATUS_STR, INTERNAL_VERSION_NO) VALUES ('GENERATE_KEY',
CURRENT_TIMESTAMP, 'OBJ', CURRENT_TIMESTAMP, 'OK', '10.4.2.0.0.0.10684905')
[enndatabaseupgrade]
[enndatabaseupgrade] DELETE FROM C_REPOS_DB_CHANGE WHERE DB_CHANGE_SCRIPT_NAME =
'SR2R_GET_KEY'
[enndatabaseupgrade] INSERT INTO C_REPOS_DB_CHANGE (DB_CHANGE_SCRIPT_NAME, CREATE_DATE,
SCRIPT_TYPE_STR, APPLIED_DATE, STATUS_STR, INTERNAL_VERSION_NO) VALUES ('SR2R_GET_KEY',
CURRENT_TIMESTAMP, 'OBJ', CURRENT_TIMESTAMP, 'OK', '10.4.2.0.0.0.10684905')
[enndatabaseupgrade]
[enndatabaseupgrade] UPDATE C_REPOS_DB_VERSION SET INSTALL_STATUS_STR = 'installed', END_DATE =
CURRENT_TIMESTAMP WHERE INTERNAL_VERSION_NO = '10.4.2.0.0.0.10684905'
[enndatabaseupgrade] UPDATE C_REPOS_DB_VERSION SET INSTALL_STATUS_STR = 'verified', END_DATE =
CURRENT_TIMESTAMP WHERE INTERNAL_VERSION_NO = '10.4.2.0.0.0.10684905'
[echo] UPDATEORSDATABASE end: 2021 April 01 11:48:37

BUILD SUCCESSFUL
Total time: 5 minutes 54 seconds
SCRIPT FINISHED
D:\Informatica MDM 10.4 HF2 DATABASE FILES\database\bin>
```



7.4. Install hub

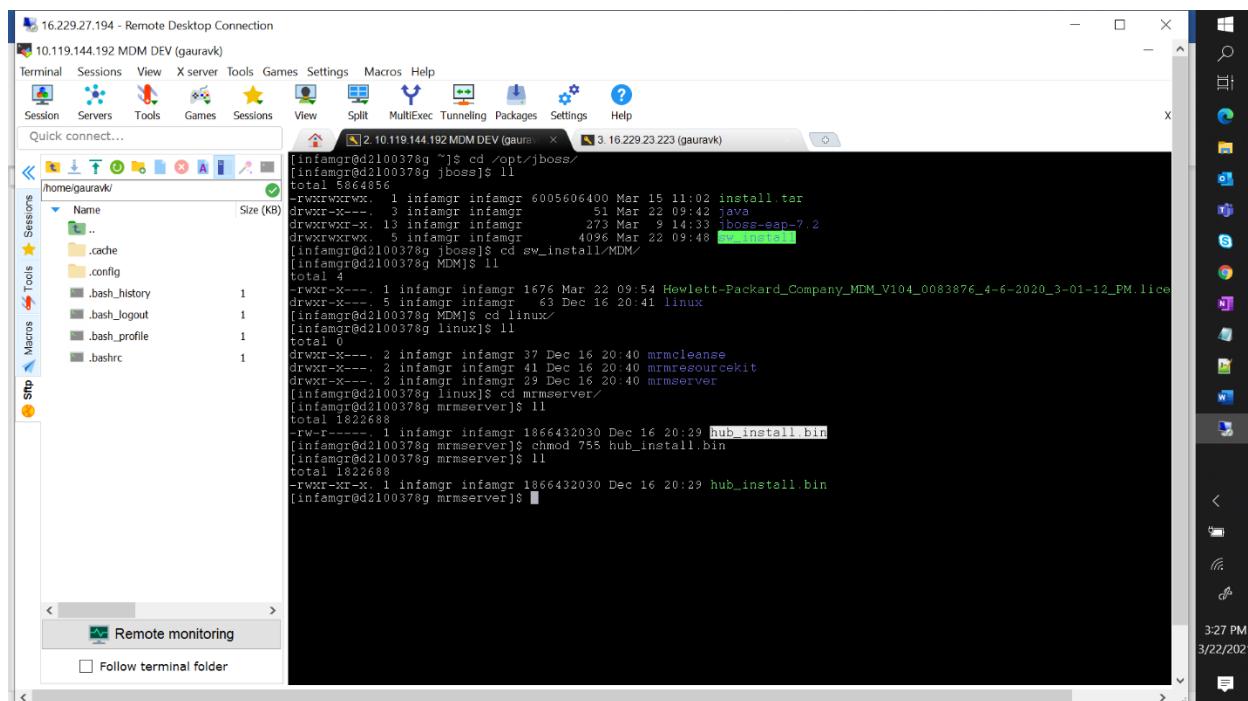
Go to `/opt/infa/sw_install/linux/mrmserver/` and run the below script. `./hub_install.bin -i console` and enter the below values when prompted.

Field	Value
Installation directory	<code>/opt/infa/mdm/hub/server</code>
Link Location	<code>/opt/infa/mdm/hub/server</code>
Absolute path of the license file	<code>/opt/jboss/sw_install/Hewlett-Packard_Company_MDM_V104_0083876_4-6-2020_3-01-12_PM.license</code>

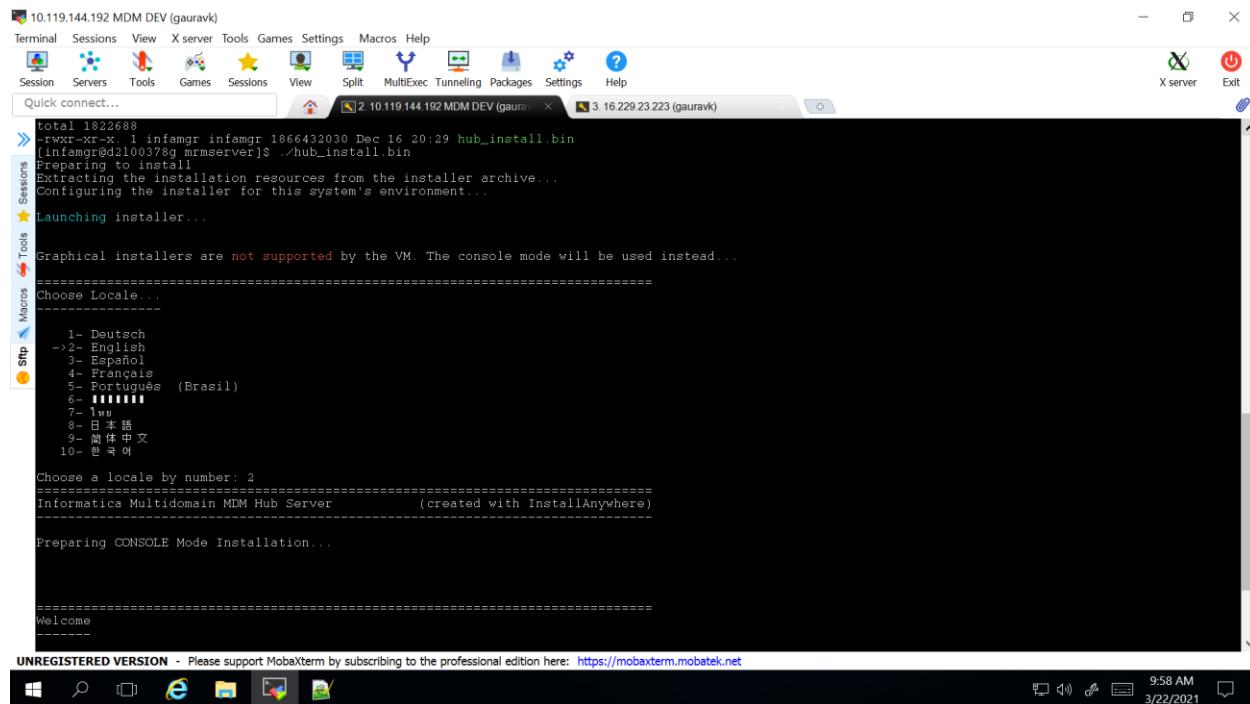
Field	Value
Advanced Security	Default
Customer Hash Key	Null
Console Hostname	d2l00378g.dc02.its.hpecorp.net
Console Application Server Port Number	8180
Application Server	jboss
JBOSS Installation directory	/opt/jboss/jboss-eap-7.2
Configuration Name	standalone
Remote Port	Default <4447>
Management Native Port	Default <9990>
Type of Database	MSSQL
Server Host	d2wg10984.americas.hpqcorp.net
Port	1155
Database Name	CMX_SYSTEM
DBO User Name	cmx_system
Enter DBO Password	cmx_system@pwd1
Customisation of URL	default
Install Informatica ActiveVOS	yes
ActiveVOS Server Installation Directory	/opt/infa/mdm/avos/server
Server	d2wg10984.americas.hpqcorp.net
Port	1155
Active VOS Schema Name	avos
Active VOS Schema Password	avos@pwd1
Web Services URL	http://d2l00378g.dc02.its.hpecorp.net:8180
ActiveVOS Server Installer File	/opt/jboss/sw_install/ActiveVOS/ActiveVOS_Server_Unix_9.2.4.6.sh
ActiveVOS Administrator Console User Name	avadmin
ActiveVOS Administrator Console User Password	avos@dmin99#
Install Informatica Platform?	no

Field	Value
Industry	30
Environment	Development
Does your network have a proxy server?	no
Host	null
Port	null
Domain Name	null
User Name	null
Password	Null
Deploy Hub Server?	Yes

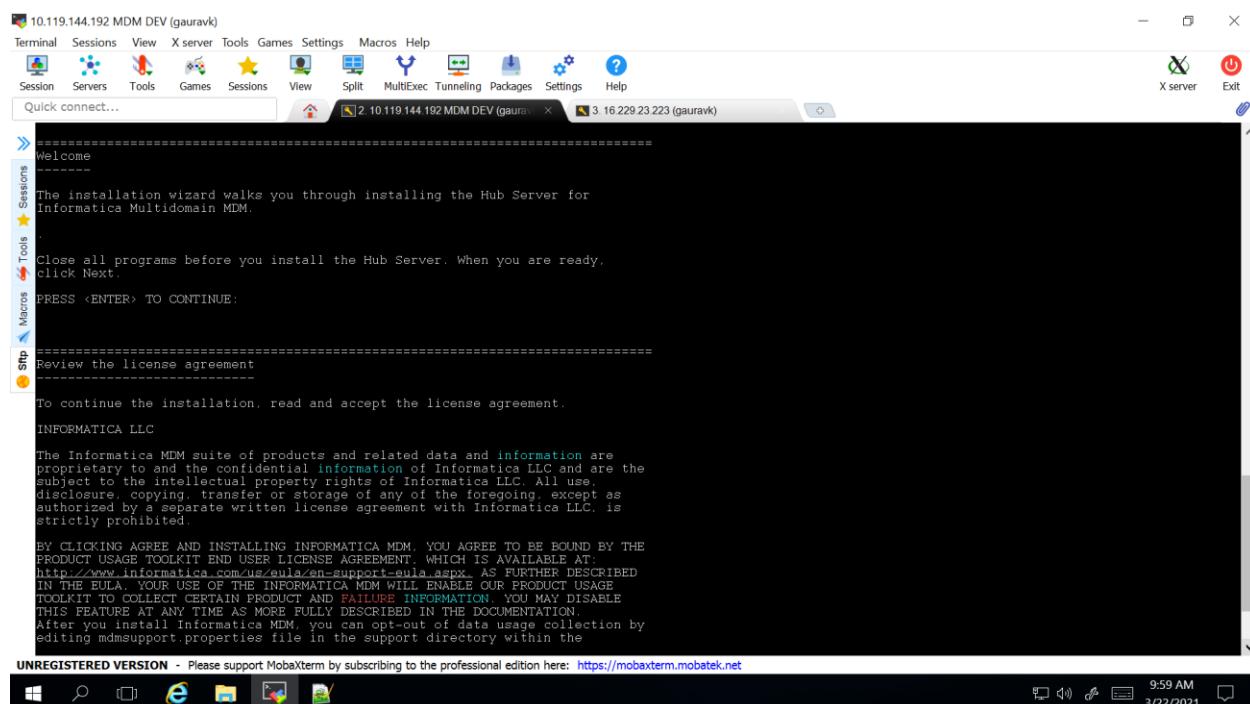
- Navigate to /opt/jboss/sw install/linux/mrmserver & execute ./hub install.bin -i console

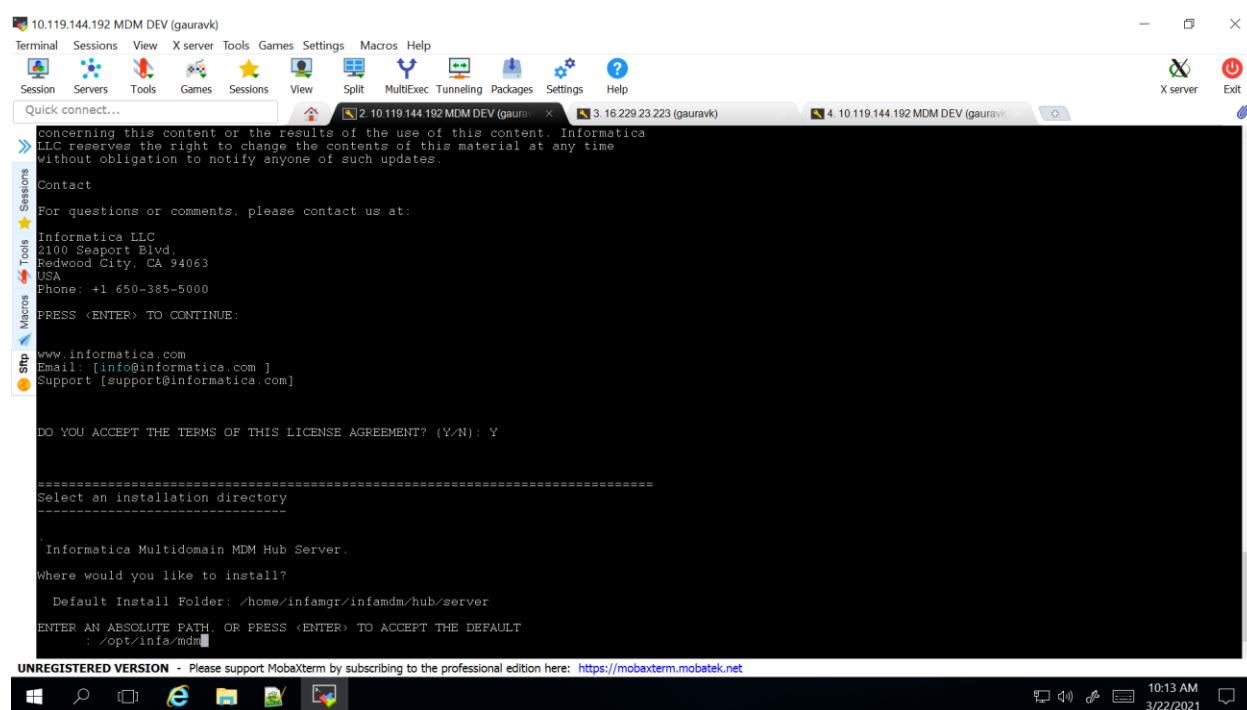
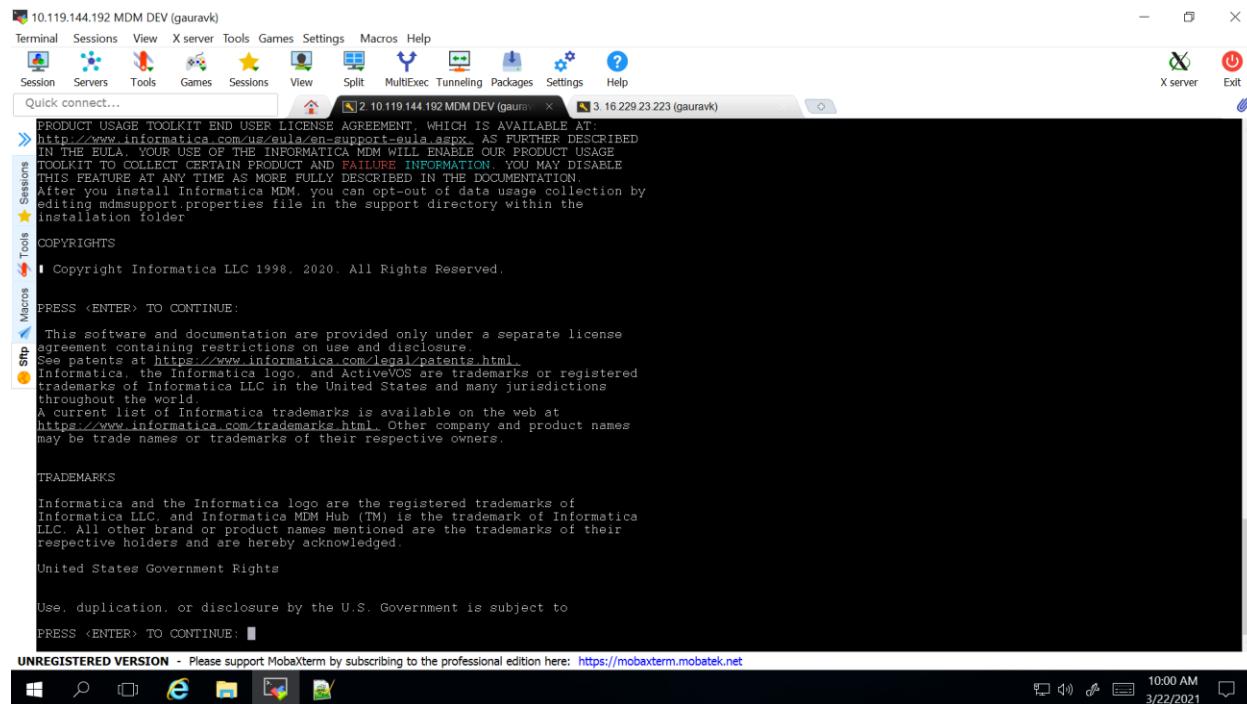


- Choose the Locale as English and press ‘Enter’ twice



- Accept the License Agreement



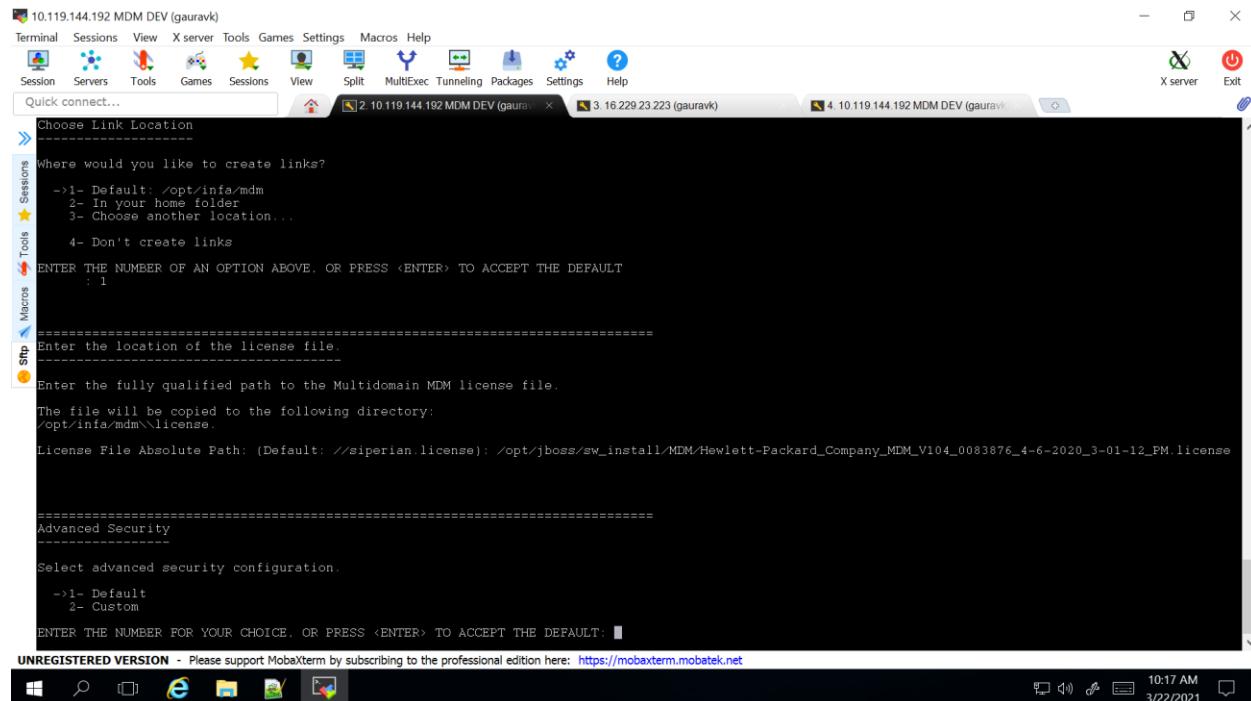


- Select ‘/opt/infa/mdm/hub/server’ as the path for Hub Server installation and choose the default link location

```
ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
: /opt/infa/mdm/hub/server
```

```
INSTALL FOLDER IS: /opt/infa/mdm/hub/server
IS THIS CORRECT? (Y/N): Y
```

```
=====
Choose Link Location
-----
Where would you like to create links?
->1- Default: /opt/infa/mdm
2- In your home folder
3- Choose another location...
4- Don't create links
ENTER THE NUMBER OF AN OPTION ABOVE. OR PRESS <ENTER> TO ACCEPT THE DEFAULT
: 1
```



- Choose '**/opt/jboss/sw_install/Hewlett-Packard_Company_MDM_V104_0083876_4-6-2020_3-01-12_PM.license**' as the location of the license file

```

10.119.144.192 MDM DEV (gauravk)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings ??
X server Exit
Quick connect... 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)

ENTER THE NUMBER OF AN OPTION ABOVE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
>>> : 1

=====
Enter the location of the license file.

=====
Enter the fully qualified path to the Multidomain MDM license file.
The file will be copied to the following directory:
/opt/infa/mdm\license.

License File Absolute Path: (Default: //siperian.license): /opt/jboss/sw_install/MDM/Hewlett-Packard_Company_MDM_V104_0083876_4-6-2020_3-01-12_PM.license

=====
Advanced Security
-----
Select advanced security configuration.

->1- Default
2- Custom

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

=====

Configure security
-----
Customer Hash Key (optional):
=Customer Hash Key: : [REDACTED]

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```

- Choose the default Security configuration and enter no Customer Hash key

```

10.119.144.192 MDM DEV (gauravk)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings ??
X server Exit
Quick connect... 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)

=====
Console Application Server Name
-----
You can change the name for the console for the application server here.
Console Hostname : d2l00378g.dc02.its.hpecorp.net

=====
Console Application Server Port Number
-----
You can change the name for the console for the application server port number here.
Console.Webport : 8180

=====
Select the application server
-----
Select the application server that you installed and configured for use with
Informatica Multidomain MDM Hub Server.

->1- JBoss
2- WebSphere
3- Oracle WebLogic

ENTER A COMMA-SEPARATED LIST OF NUMBERS REPRESENTING THE DESIRED CHOICES, OR
PRESS <ENTER> TO ACCEPT THE DEFAULT: [REDACTED]

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```

- Provide hostname of local server, enter 8180 as web port and choose JBOSS as web server

```

10.119.144.192 MDM DEV (gauravk)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect... 1 10.119.144.192 MDM DEV (gauravk) 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)
X server Exit

Sessions
Tools
Macros
Ssh

Select the application server
=====
★ Select the application server that you installed and configured for use with
Informatica Multidomain MDM Hub Server.

->1- JBoss
2- WebSphere
3- Oracle WebLogic

ENTER A COMMA-SEPARATED LIST OF NUMBERS REPRESENTING THE DESIRED CHOICES, OR
PRESS <ENTER> TO ACCEPT THE DEFAULT:

JBoss Select the installation directory
-----
JBoss Installation Directory: (Example: /jboss)
Path (Default: /): /opt/jboss/jboss-eap-7.2

JBoss Specify a configuration name
-----
Use the default configuration name unless you are advised to change it by
Informatica Global Customer Support. The Hub Server is deployed to the
specified configuration.

Configuration Name: (Default: standalone): ■

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```

Windows taskbar at the bottom: 10:25 AM, 3/22/2021

- Provide JBOSS installation directory, choose config name as 'standalone' and accept the default ports

```

10.119.144.192 MDM DEV (gauravk)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect... 1 10.119.144.192 MDM DEV (gauravk) 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)
X server Exit

Sessions
Tools
Macros
Ssh

2- WebSphere
3- Oracle WebLogic

ENTER A COMMA-SEPARATED LIST OF NUMBERS REPRESENTING THE DESIRED CHOICES, OR
PRESS <ENTER> TO ACCEPT THE DEFAULT:

JBoss Select the installation directory
-----
JBoss Installation Directory: (Example: /jboss)
Path (Default: /): /opt/jboss/jboss-eap-7.2

JBoss Specify a configuration name
-----
Use the default configuration name unless you are advised to change it by
Informatica Global Customer Support. The Hub Server is deployed to the
specified configuration.

Configuration Name: (Default: standalone): ■

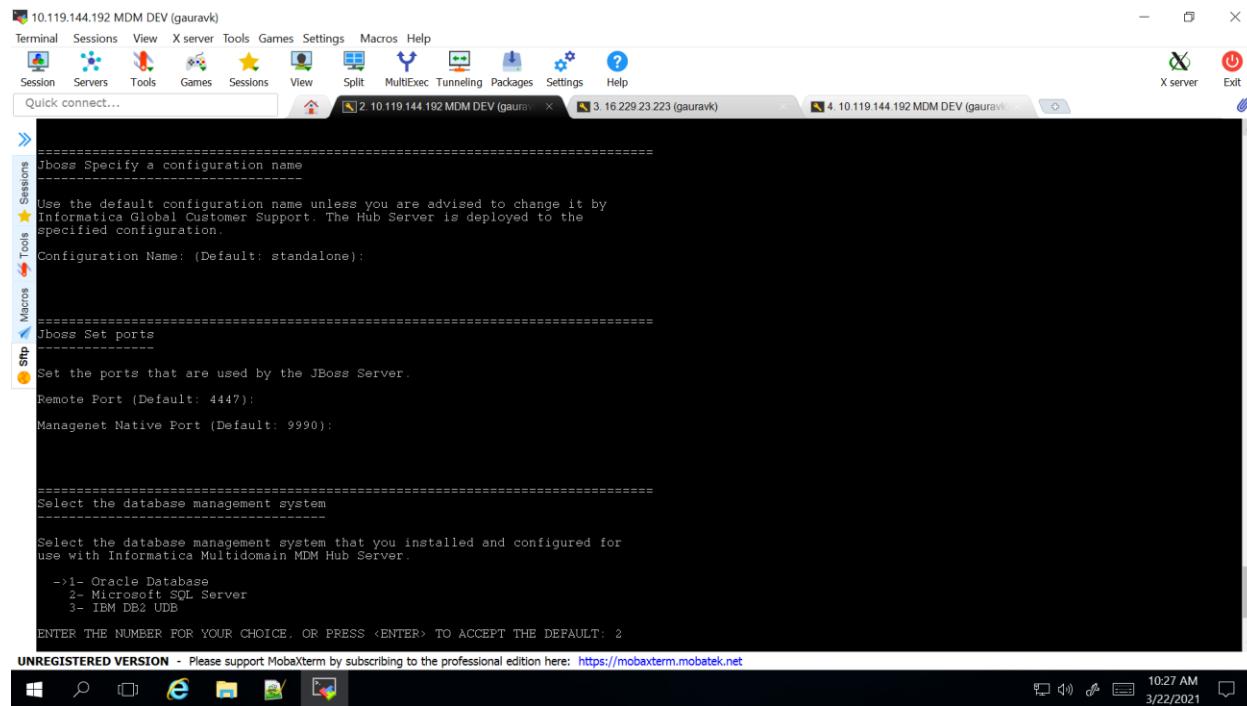
JBoss Set ports
-----
Set the ports that are used by the JBoss Server.

Remote Port (Default: 4447): ■

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```

Windows taskbar at the bottom: 10:26 AM, 3/22/2021



10.119.144.192 MDM DEV (gauravk)

JBoss Specify a configuration name
 Use the default configuration name unless you are advised to change it by
 Informatica Global Customer Support. The Hub Server is deployed to the
 specified configuration.
 Configuration Name: (Default: standalone)

JBoss Set ports
 Set the ports that are used by the JBoss Server.
 Remote Port (Default: 4447):
 Managenet Native Port (Default: 9990):

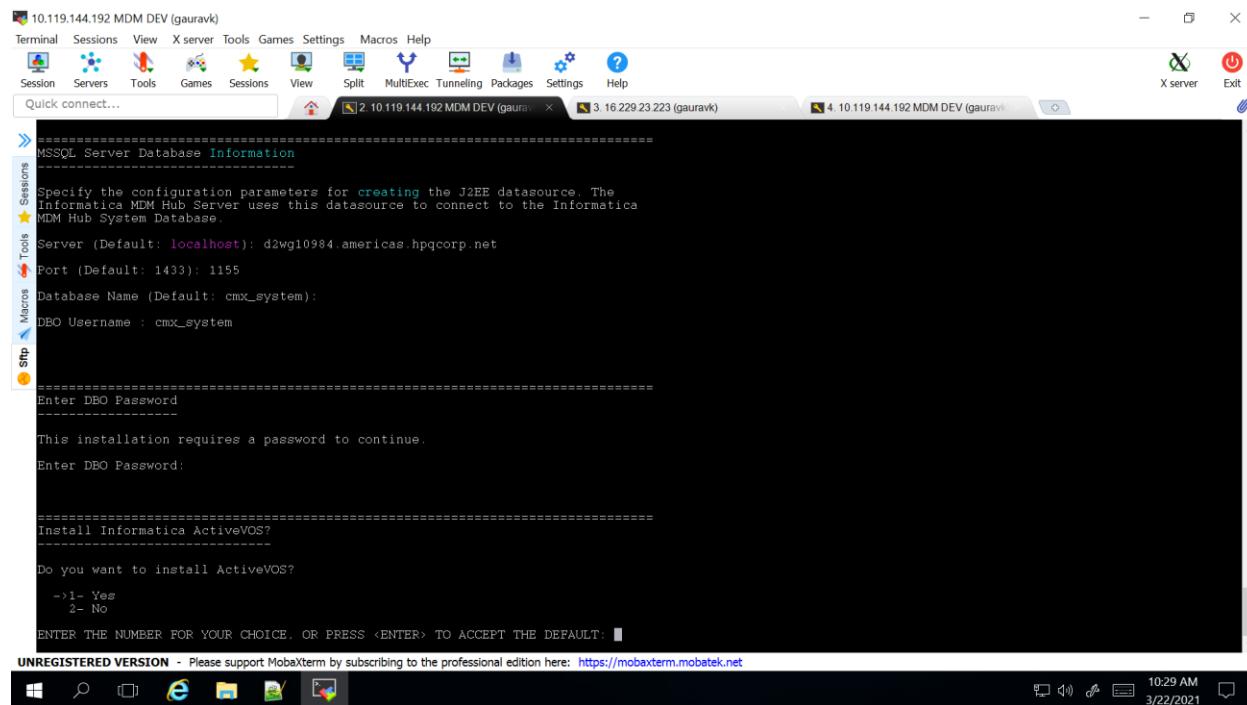
Select the database management system
 Select the database management system that you installed and configured for
 use with Informatica Multidomain MDM Hub Server.

->1- Oracle Database
 2- Microsoft SQL Server
 3- IBM DB2 UDB

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 2

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- Choose Microsoft SQL Server as DB type and Enter the Database Information Details



10.119.144.192 MDM DEV (gauravk)

MSSQL Server Database Information
 Specify the configuration parameters for creating the J2EE datasource. The
 Informatica MDM Hub Server uses this datasource to connect to the Informatica
 MDM Hub System Database.

Server (Default: localhost): d2wg10984.americas.hpqcorp.net
 Port (Default: 1433): 1155
 Database Name (Default: cmx_system):
 DBO Username : cmx_system

Enter DBO Password
 This installation requires a password to continue.
 Enter DBO Password:

Install Informatica ActiveVOS?
 Do you want to install ActiveVOS?

->1- Yes
 2- No

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

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10.119.144.192 MDM DEV (gauravk)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings ?

X server Exit

Quick connect... 2: 10.119.144.192 MDM DEV (gauravk) 3: 16.229.23.223 (gauravk) 4: 10.119.144.192 MDM DEV (gauravk)

```
» Enter DBO Password:
```

```
=====
Install Informatica ActiveVOS?
```

```
Do you want to install ActiveVOS?
  ->1- Yes
  2- No
```

```
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1
```

```
=====
Select an ActiveVOS Server installation directory:
```

```
Select an empty directory where you want to install ActiveVOS Server.
```

```
Installation folder absolute path (Default: /home/infamgr/infamdm/avos/server): /opt/infra/mdm/avos/server
```

```
=====
MSSQL Server Database Information
```

```
Specify the configuration parameters for creating the J2EE datasource. The
Informatica ActiveVOS Server uses this datasource to connect to the
Informatica ActiveVOS Database.
```

```
Server (Default: localhost): [ ]
```

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10.119.144.192 MDM DEV (gauravk)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings ?

X server Exit

Quick connect... 2: 10.119.144.192 MDM DEV (gauravk) 3: 16.229.23.223 (gauravk) 4: 10.119.144.192 MDM DEV (gauravk)

```
»
```

```
MSSQL Server Database Information
```

```
Specify the configuration parameters for creating the J2EE datasource. The
Informatica ActiveVOS Server uses this datasource to connect to the
Informatica ActiveVOS Database.
```

```
Server (Default: localhost): d2wg10984.americas.hpqcorp.net
```

```
Port (Default: 1433): 1155
```

```
Database Name (Default: avos): ActiveVOS
```

```
DBO Username (Default: avos): ActiveVOS
```

```
=====
Enter the DBO password
```

```
This installation requires a password to continue.
```

```
Enter the DBO password:
```

```
=====
Application Server Web URL
```

```
Provide the Application Server Web URL that is used to call Informatica
ActiveVOS and Informatica MDM web services
```

```
Application Server Web URL (Default: http://localhost:8080): [ ]
```

UNREGISTERED VERSION - Please support Mobaxterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

11:01 AM 3/22/2021

```

10.119.144.192 MDM DEV (gaurav)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Database Name (Default: avos): ActiveVOS
DBO Username (Default: avos): ActiveVOS
=====
Enter the DBO password
-----
This installation requires a password to continue.
Enter the DBO password:
=====
Application Server Web URL
-----
Provide the Application Server Web URL that is used to call Informatica
ActiveVOS and Informatica MDM web services
Application Server Web URL (Default: http://localhost:8080): http://d2100378g.dc02.its.hpacorp.net:8180
=====
ActiveVOS Installer
-----
Select the path for ActiveVOS installer.
Installer path (Default:
/opt/jboss/sw_install/MDM/linux/mrmserver/ActiveVOS_Server_unix_9.2.4.6.sh)
:

```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

- Enter the prompts as per table to install AVOS

```

10.119.144.192 MDM DEV (gaurav)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
=====
ActiveVOS Installer
-----
Select the path for ActiveVOS installer.
Installer path (Default:
/opt/jboss/sw_install/MDM/linux/mrmserver/ActiveVOS_Server_unix_9.2.4.6.sh)
:
/opt/jboss/sw_install/MDM/ActiveVOS_Server_Uinx_9.2.4.6.sh
=====
ActiveVOS Enter console credentials
-----
ActiveVOS Administrator Console User Name: : avadmin
=====
ActiveVOS Enter the console user credentials
-----
Enter the password for the ActiveVOS Administrator Console:
=====
Industry
-----
Select the industry to which the organization belongs:
1- Aerospace and Defense
2- Agriculture and Agribusiness

```

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- Choose not to install Informatica Platform & select 25 as Industry type while keeping the Environment type as Development

10.119.144.192 MDM DEV (gauravk)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

X server Exit

Quick connect... 1 10.119.144.192 MDM DEV (gauravk) 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)

Industry

Select the industry to which the organization belongs:

- 1- Aerospace and Defense
- 2- Agriculture and Agribusiness
- 3- Automotive
- 4- Basic Materials
- 5- Construction and Property
- 6- Diversified and Conglomerate
- 7- Education
- 8- Energy - Chemical, and Utilities
- 9- Financial Services - Banking and Securities
- 10- Financial Services - Insurance
- 11- Financial Services - Investment
- 12- Financial Services - Other
- 13- Food and Beverages
- 14- Government - National
- 15- Government - State, Local, and Other
- 16- Health Care, Medical, Pharma, and Biotech
- 17- Hospitality, Entertainment, and Leisure
- 18- Manufacturing
- 19- Media, Advertising, PR
- 20- Professional Services - Accounting
- 21- Professional Services - Consulting
- 22- Professional Services - Legal
- 23- Professional Services - Other
- 24- Retail
- 25- Technology - Hardware and Equipment
- 26- Technology - Other
- 27- Technology - Software and Services
- 28- Telecommunications
- 29- Transportation and Distribution
- 30- Other

ENTER THE NUMBER OF THE DESIRED CHOICE: 25

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Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

X server Exit

Quick connect... 1 10.119.144.192 MDM DEV (gauravk) 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)

13- Food and Beverages

14- Government - National

15- Government - State, Local, and Other

16- Health Care, Medical, Pharma, and Biotech

17- Hospitality, Entertainment, and Leisure

18- Manufacturing

19- Media, Advertising, PR

20- Professional Services - Accounting

21- Professional Services - Consulting

22- Professional Services - Legal

23- Professional Services - Other

24- Retail

25- Technology - Hardware and Equipment

26- Technology - Other

27- Technology - Software and Services

28- Telecommunications

29- Transportation and Distribution

30- Other

ENTER THE NUMBER OF THE DESIRED CHOICE: 25

=====
Environment
=====
Enter environment type:
->1- Production
2- Test/QA
3- Development
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 3
=====
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```
=====
Product Usage Toolkit
=====
Does your network have a proxy server?
  1- Yes
->2- No
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 2

=====
Product Usage Toolkit
=====
<p>The toolkit sends information about your MDM environment to Informatica. The information is used by Informatica Global Customer Support to help troubleshoot and provide recommendations for your environment.</p>
<b></b>Tip</b>: If you do not want the toolkit to send any information to Informatica, you can disable the toolkit after you install or upgrade MDM.

PRESS <ENTER> TO CONTINUE:

=====
Deploy the Hub Server
=====

After you complete the installation, the installation wizard can automatically deploy the Hub Server to the application server. Alternatively, you can complete the installation and then run the script manually.

Caution: In some environments, you must deploy the Hub Server manually. For
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```

```
=====
Product Usage Toolkit
=====
<p>The toolkit sends information about your MDM environment to Informatica. The information is used by Informatica Global Customer Support to help troubleshoot and provide recommendations for your environment.</p>
<b></b>Tip</b>: If you do not want the toolkit to send any information to Informatica, you can disable the toolkit after you install or upgrade MDM.

PRESS <ENTER> TO CONTINUE:

=====
Deploy the Hub Server
=====

After you complete the installation, the installation wizard can automatically deploy the Hub Server to the application server. Alternatively, you can complete the installation and then run the script manually.

Caution: In some environments, you must deploy the Hub Server manually. For more information, click Help.
->1- Yes, run it during this installation.
  2- No, I will run it later.

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

=====
Configuration Summary
=====

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```

- Review the config and hit enter to kickstart the Installation

10.119.144.192 MDM DEV (gauravk)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

X server Exit

Quick connect... 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

```
=====
Configuration Summary
=====
Review the selected settings:
Product Name: Informatica Multidomain MDM Hub Server
Install Folder: /opt/infa/mdm/hub/server
Link Folder: /opt/infa/mdm/hub/server
Application Server: JBoss
Database Management: "", "Microsoft SQL Server", ""
Install Informatica ActiveVOS
  Yes
Product Usage Toolkit:
  Product Usage Toolkit Proxy Server: No Proxy Server
Auto Deploy?
  Yes
Disk Space Information (for Installation Target):
  Required: 841.346.520 Bytes
  Available: 10.651.652.096 Bytes
PRESS <ENTER> TO CONTINUE:
```

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10.119.144.192 MDM DEV (gauravk)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

X server Exit

Quick connect... 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)

Product Usage Toolkit Proxy Server: No Proxy Server

Auto Deploy?
 Yes

Disk Space Information (for Installation Target):
 Required: 841.346.520 Bytes
 Available: 10.651.652.096 Bytes

PRESS <ENTER> TO CONTINUE:

```
=====
Installing...
[=====| =====| =====| =====]
[-----|-----|-----|-----]

=====
Executing ActiveVOS Installation ...

!!! Executing ActiveVOS Installation ...

PRESS <ENTER> TO CONTINUE:
```

Please Wait

```
=====
Executing ActiveVOS Installation ...
```

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```
Please Wait
-----
Executing PostInstallSetup Script...
\

=====
Warning
-----

Setup Script Failed

To identify and resolve the problem, review the postInstallSetup.log file in
the following directory: /opt/infa/mdm/hub/server/logs
After you resolve the problem, manually run in the following directory:
/opt/infa/mdm/hub/server/

PRESS <ENTER> TO ACCEPT THE FOLLOWING (OK): █
```



```
=====
Warning
-----

Setup Script Failed

To identify and resolve the problem, review the postInstallSetup.log file in
the following directory: /opt/infa/mdm/hub/server/logs
After you resolve the problem, manually run in the following directory:
/opt/infa/mdm/hub/server/

PRESS <ENTER> TO ACCEPT THE FOLLOWING (OK):

=====

Install Complete
-----

The installation of Informatica Multidomain MDM Hub Server is complete, but
some errors occurred during the install.
    Review the installation log for details. Press "Done" to quit the
installer.

PRESS <ENTER> TO EXIT THE INSTALLER:
```

```
BUILD FAILED
/opt/infra/mdm/hub/server/bin/build.xml:542: The following error occurred while executing this line:
/opt/infra/mdm/hub/server/bin/build.xml:317: The following error occurred while executing this line:
/opt/infra/mdm/hub/server/bin/build.xml:382: Execute failed: java.io.IOException: Cannot run program "jarsigner": error=2, No such file or directory
        at java.lang.ProcessBuilder.start(ProcessBuilder.java:1048)
        at java.lang.Runtime.exec(Runtime.java:621)
        at org.apache.tools.ant.taskdefs.launcher.Java13CommandLauncher.exec(Java13CommandLauncher.java:41)
        at org.apache.tools.ant.taskdefs.Execute.launch(Execute.java:428)
        at org.apache.tools.ant.taskdefs.Execute.execute(Execute.java:442)
        at org.apache.tools.ant.taskdefs.ExecTask.runExecute(ExecTask.java:628)
        at org.apache.tools.ant.taskdefs.ExecTask.runExec(ExecTask.java:669)
        at org.apache.tools.ant.taskdefs.ExecTask.execute(ExecTask.java:495)
        at org.apache.tools.ant.taskdefs.Signjar.signOneJar(Signjar.java:488)
        at org.apache.tools.ant.taskdefs.Signjar.execute(Signjar.java:403)
        at org.apache.tools.ant.UnknownElement.execute(UnknownElement.java:292)
        at sun.reflect.GeneratedMethodAccessor4.invoke(Unknown Source)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
        at java.lang.reflect.Method.invoke(Method.java:498)
        at org.apache.tools.ant.dispatch.DispatchUtils.execute(DispatchUtils.java:106)
        at org.apache.tools.ant.Task.perform(Task.java:348)
        at org.apache.tools.ant.Target.execute(Target.java:435)
        at org.apache.tools.ant.Target.performTasks(Target.java:456)
        at org.apache.tools.ant.Project.executeSortedTargets(Project.java:1393)
        at org.apache.tools.ant.helper.SingleCheckExecutor.executeTargets(SingleCheckExecutor.java:38)
        at org.apache.tools.ant.Project.executeTargets(Project.java:1248)

-- INSERT --
```

- Navigate to /opt/infra/mdm/hub/server & run the below command to conclude post-install of Hub Server**

```
./postInstallSetup.sh -Ddatabase.password="cmx_system@pwd1" -Davos.username="avadmin" -Davos.password="avos@admin99#" -Davos.jdbc.database.username="ActiveVOS" -Davos.jdbc.database.password="activevos@pwd1"
```

```
[inifamgr@d2l00378g server]$ ./postInstallSetup.sh -Ddatabase.password="cmx_system@pwd1" -Davos.username="avadmin" -Davos.password="avos@admin99#" -Davos.jdbc.database.username="ActiveVOS" -Davos.jdbc.database.password="activevos@PWD1"
Current folder : /opt/infra/mdm/hub/server/bin
Current script : /opt/infra/mdm/hub/server/bin/sip_ant.sh
Parameters :
JBoss Home : /opt/jboss/jboss-eap-7_2
Siperian Home : /opt/infra/mdm/hub/server
Java Home : /opt/jboss/java/zulu8_40_0_20-sa-jdk8.0.222-linux_x64
Classpath : /opt/infra/mdm/hub/server/lib/ojdbc7.jar:/opt/infra/mdm/hub/server/lib/ant.jar:/opt/infra/mdm/hub/server/lib/xml-api.jar:/opt/infra/mdm/hub/server/lib/xercesImpl.jar:/opt/infra/mdm/hub/server/lib/log4j-1.2.16.jar:/opt/infra/mdm/hub/server/lib/siperian-common.jar:/opt/infra/mdm/hub/server/lib/e-log4j.jar:/opt/jboss/jboss-eap-7.2/bin/client/jboss-cl-client.jar:/opt/jboss/jboss-eap-7.2/bin/client/jboss-client.jar:/opt/jboss/java/zulu8_40_0_222-linux_x64/lib/rt.jar:/opt/infra/mdm/hub/server/lib/ojdbc7.jar:/opt/jboss/java/zulu8_40_0_20-sa-jdk8.0.222-linux_x64/lib/ii16n.jar
OpenJDK 64-Bit Server VM warning: ignoring option MaxPermSize=256m; support was removed in 8.0
Buildfile: /opt/infra/mdm/hub/server/bin/build.xml
*** DEPLOYMENT SUCCESSFUL ***
*** View execution results in log file : ./logs/postInstallSetup.log ***
[inifamgr@d2l00378g server]$
```

8. Cleanse Installation

Go to /data/stage/linux/mrmcleanse/ and run the below script.

```
./hub_cleanse_install.bin
```

Field	Value
Installation directory	/opt/infra/mdm/hub/process
Location of the License File	/opt/jboss/sw_install/Hewlett-Packard_Company_MDM_V104_0083876_4-6-2020_3-01-12_PM.license
Application Server	d2l00378g.dc02.its.hpecorp.net
JBoss Installation Directory	/app/jboss/jboss-eap-7.2
Configuration Name	standalone
Remote Port	4447
Management Port	9990
Configuration File	default
Parameters File	default

Correction Type	PARAMETERS_DEFAULT
Industry	25
Environment	development
Does your network have a proxy server?	no
Host	null
Port	null
Domain Name	null
User Name	null
Port	Null
Deploy process server?	yes

- **Navigate to the mrmcleanse directory and run the installer in console mode**

```

10.119.144.192 MDM DEV (gauravk)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Server Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect... 2. 10.119.144.192 MDM DEV (gauravk) 3. 16.229.23.223 (gauravk) 4. 10.119.144.192 MDM DEV (gauravk)
X server Exit
[infamgr@2100378g ~] ll
total 314204
-rw-r----- 1 infamgr infamgr 321743933 Dec 16 20:32 hub_cleanse_install.bin
[infamgr@2100378g ~] chmod 775 hub_cleanse_install.bin
[infamgr@2100378g ~] ll
total 314204
-rwxrwxr-x 1 infamgr infamgr 321743933 Dec 16 20:32 hub_cleanse_install.bin
[infamgr@2100378g ~] ./hub_cleanse_install.bin
Preparing to install...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
Launching installer...

Graphical installers are not supported by the VM. The console mode will be used instead...
=====
Choose Locale...
=====
1- Deutsch
-> 2- English
3- Espanol
4- Francais
5- Portugues (Brasil)
6- Italiano
7- Iow
8- 日本語
9- 简体中文
10- 한국어

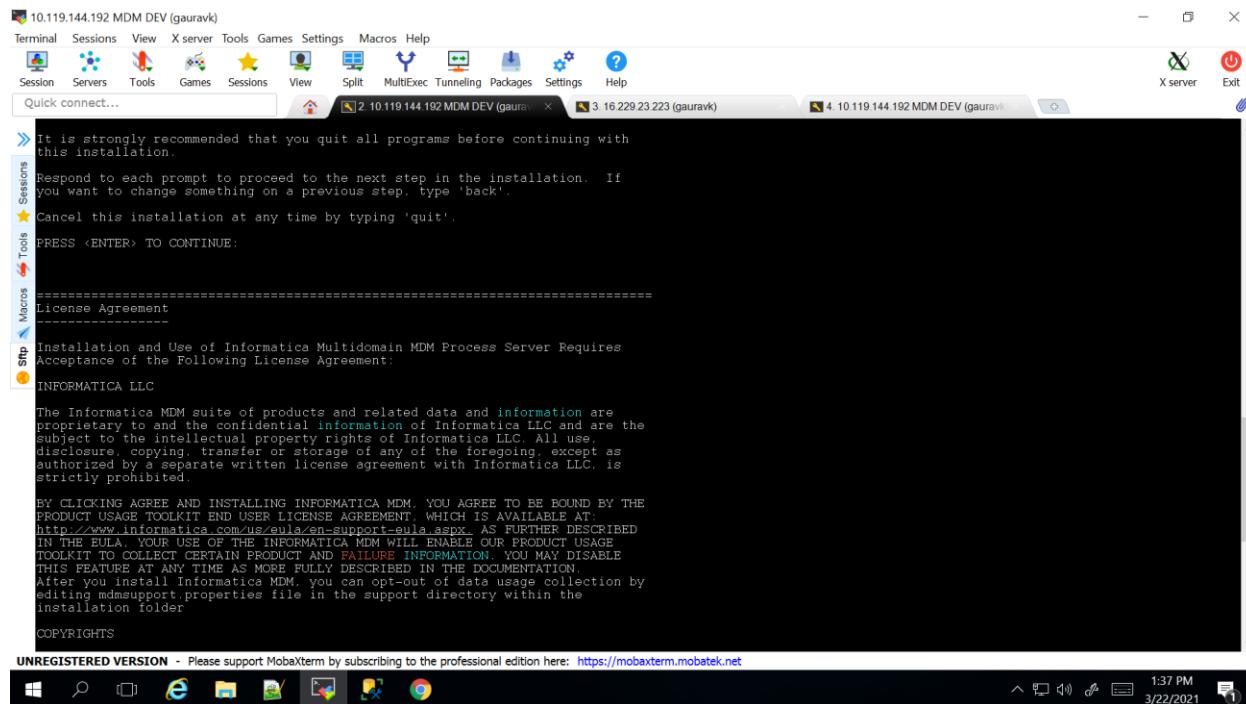
Choose locale by number: 2
=====
Informatica Multidomain MDM Process Server (created with InstallAnywhere)

Preparing CONSOLE Mode Installation...

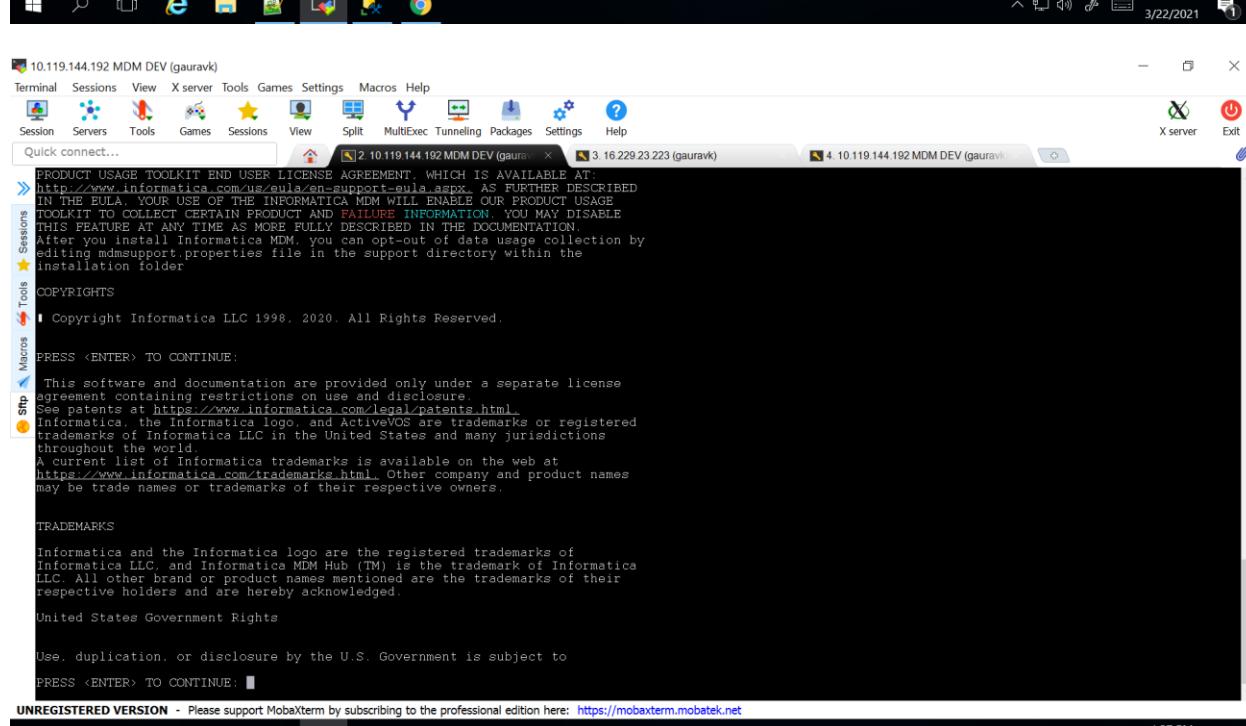
```

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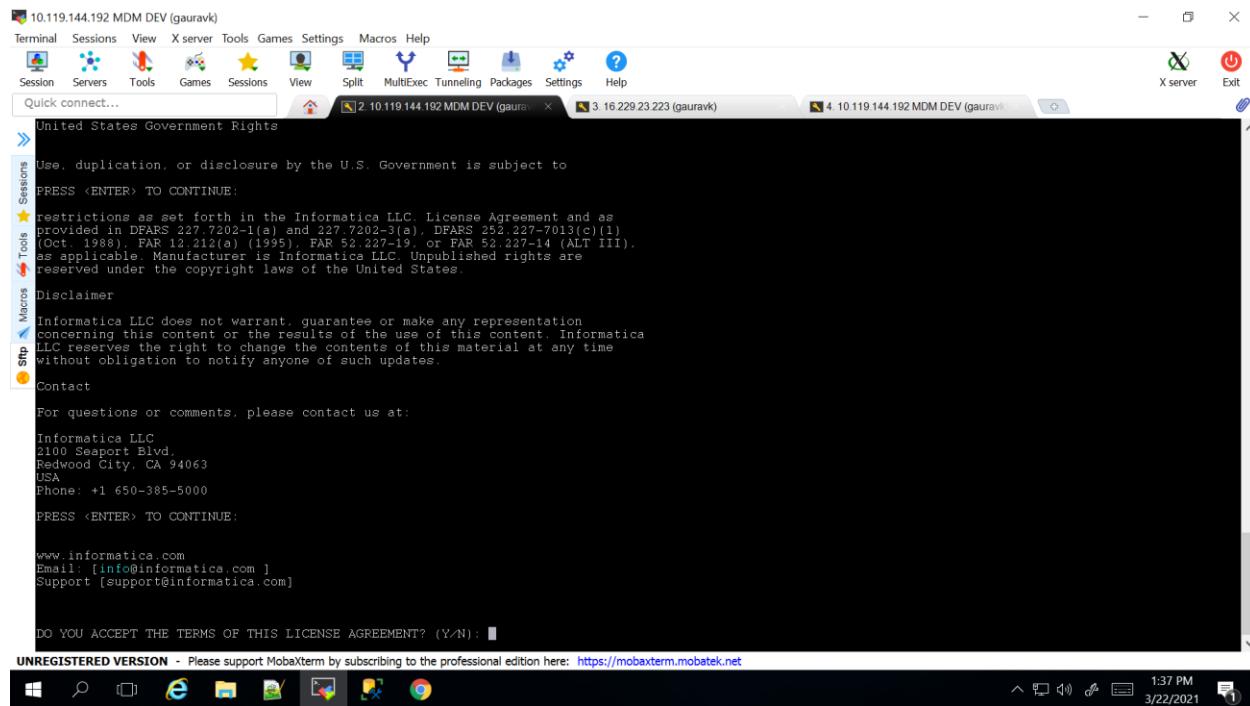
- **Accept the terms of this License Agreement and enter the directory where the Process Server is to be installed.**



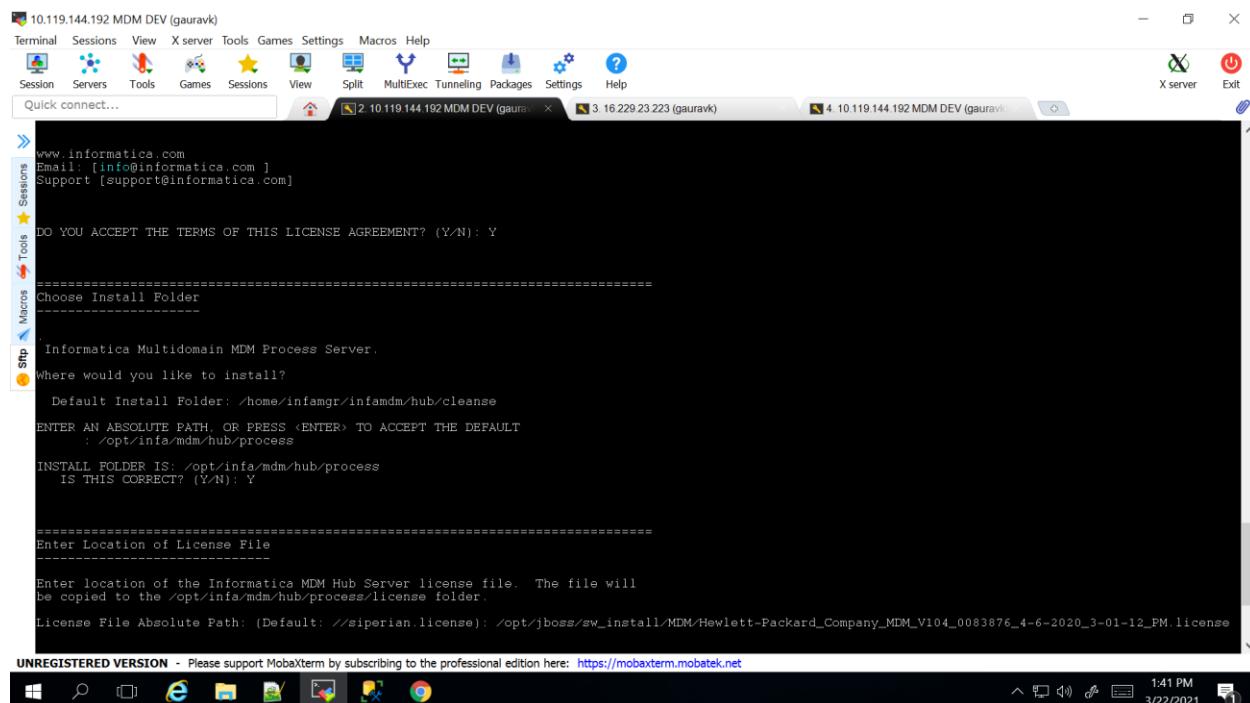
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- Enter the Absolute path of the license file



- Choose the Application Server on which the Process Server is to be Installed.

```
=====
Application Server
-----
Choose the application server on which to install Informatica Multidomain MDM
Process Server.

->1- JBoss
 2- WebSphere
 3- WebLogic

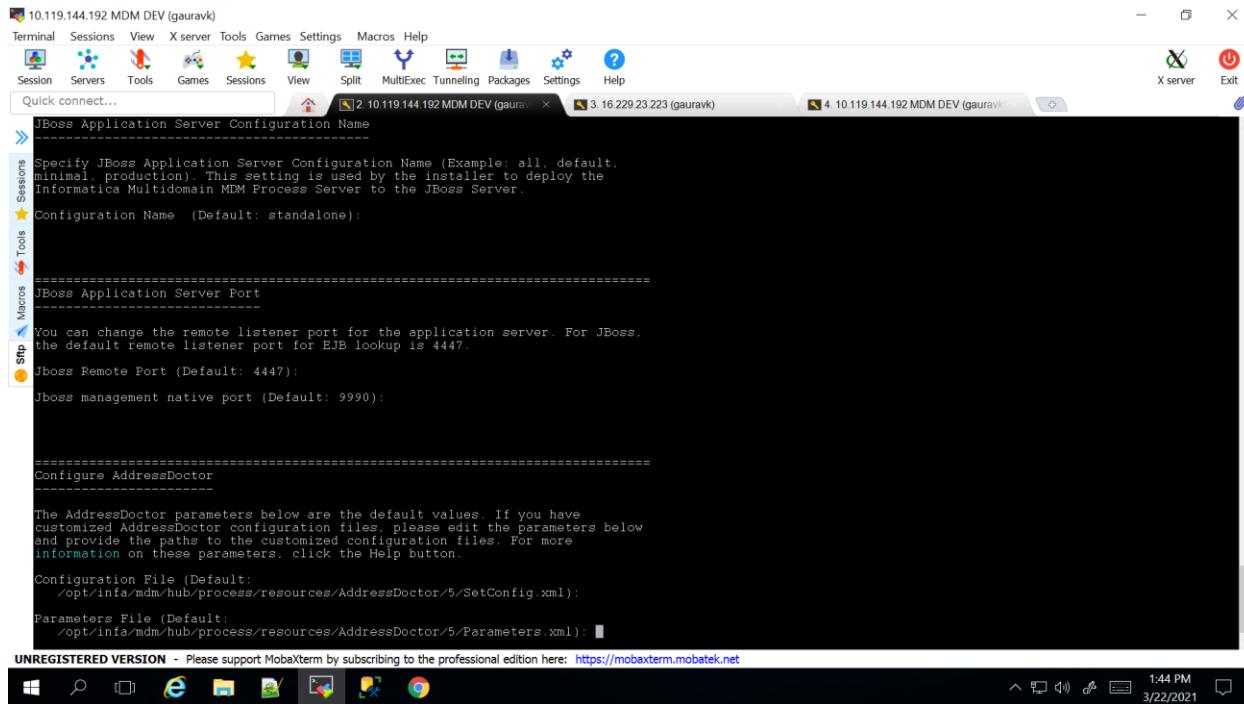
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

=====
JBoss Application Server Home
-----
Enter the path for the application server home: (Example: /jboss)
Path (Default: /): /opt/jboss/jboss-eap-7.2

=====
JBoss Application Server Configuration Name
-----
Specify JBoss Application Server Configuration Name (Example: all, default,
minimal, production). This setting is used by the installer to deploy the
Informatica Multidomain MDM Process Server to the JBoss Server.

Configuration Name (Default: standalone):
```

- **Enter the JBoss Application Configuration and the Ports**



The screenshot shows a MobaXterm window titled "10.119.144.192 MDM DEV (gauravk)". The terminal window displays the configuration of the JBoss Application Server. It shows the configuration name set to "standalone" and the remote port set to 4447. The window also includes a sidebar with tabs for Sessions, Tools, Macros, and Help, and a status bar at the bottom.

```
10.119.144.192 MDM DEV (gauravk)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Server Tools Games Sessions View Split MultiExec Tunnelling Packages Settings Help
Quick connect... 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)
JBoss Application Server Configuration Name
Specify JBoss Application Server Configuration Name (Example: all, default,
minimal, production). This setting is used by the installer to deploy the
Informatica Multidomain MDM Process Server to the JBoss Server.

Configuration Name (Default: standalone):
```

JBoss Application Server Port

```
You can change the remote listener port for the application server. For JBoss,
the default remote listener port for EJB lookup is 4447.

JBoss Remote Port (Default: 4447):
JBoss management native port (Default: 9990):
```

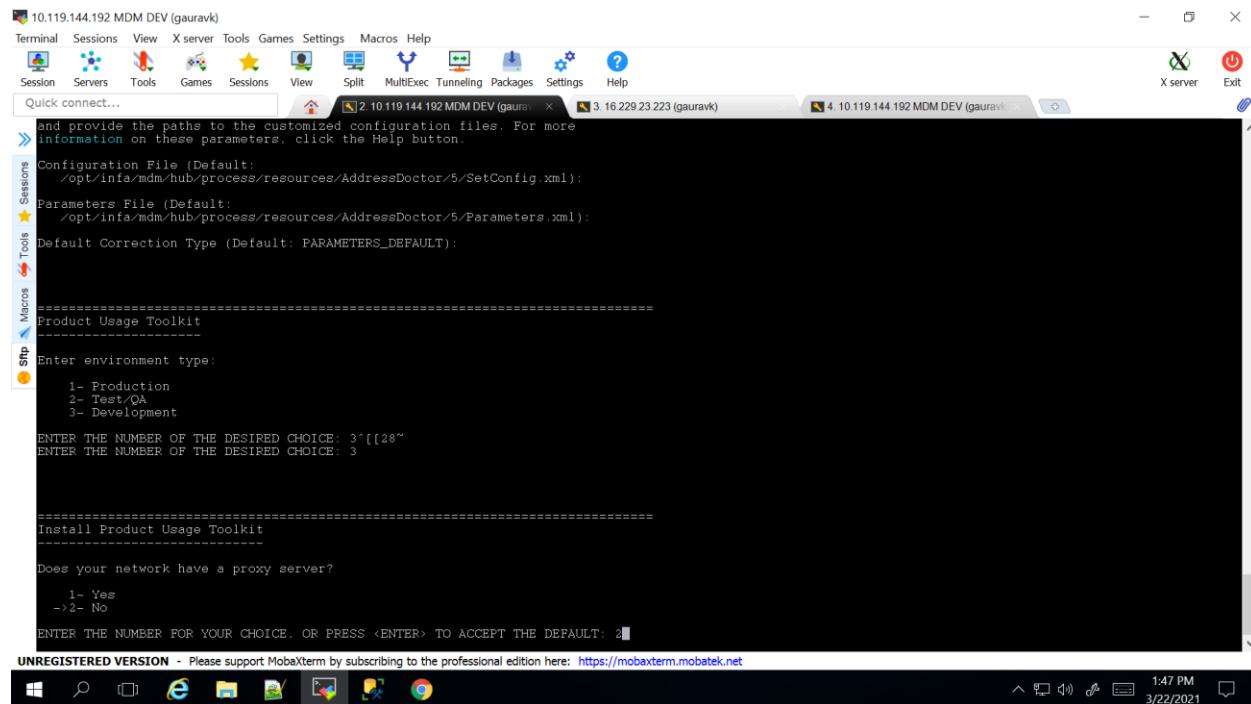
Configure AddressDoctor

```
The AddressDoctor parameters below are the default values. If you have
customized AddressDoctor configuration files, please edit the parameters below
and provide the paths to the customized configuration files. For more
information on these parameters, click the Help button.

Configuration File (Default:
/opt/infra/mdm/hub/process/resources/AddressDoctor/5/SetConfig.xml):
Parameters File (Default:
/opt/infra/mdm/hub/process/resources/AddressDoctor/5/Parameters.xml):
```

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- **Choose the environment type as Development and select no when prompted to install the proxy server.**



```

10.119.144.192 MDM DEV (gauravk)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings ??
X server Exit
Quick connect... 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)

end provide the paths to the customized configuration files. For more
information on these parameters, click the Help button.

Configuration File (Default:
/opt/infa/mdm/hub/process/resources/AddressDoctor/5/SetConfig.xml);

Parameters File (Default:
/opt/infa/mdm/hub/process/resources/AddressDoctor/5/Parameters.xml);

Default Correction Type (Default: PARAMETERS_DEFAULT);

=====
Product Usage Toolkit

Enter environment type:
1- Production
2- Test/QA
3- Development

ENTER THE NUMBER OF THE DESIRED CHOICE: 3[[28]
ENTER THE NUMBER OF THE DESIRED CHOICE: 3

=====
Install Product Usage Toolkit

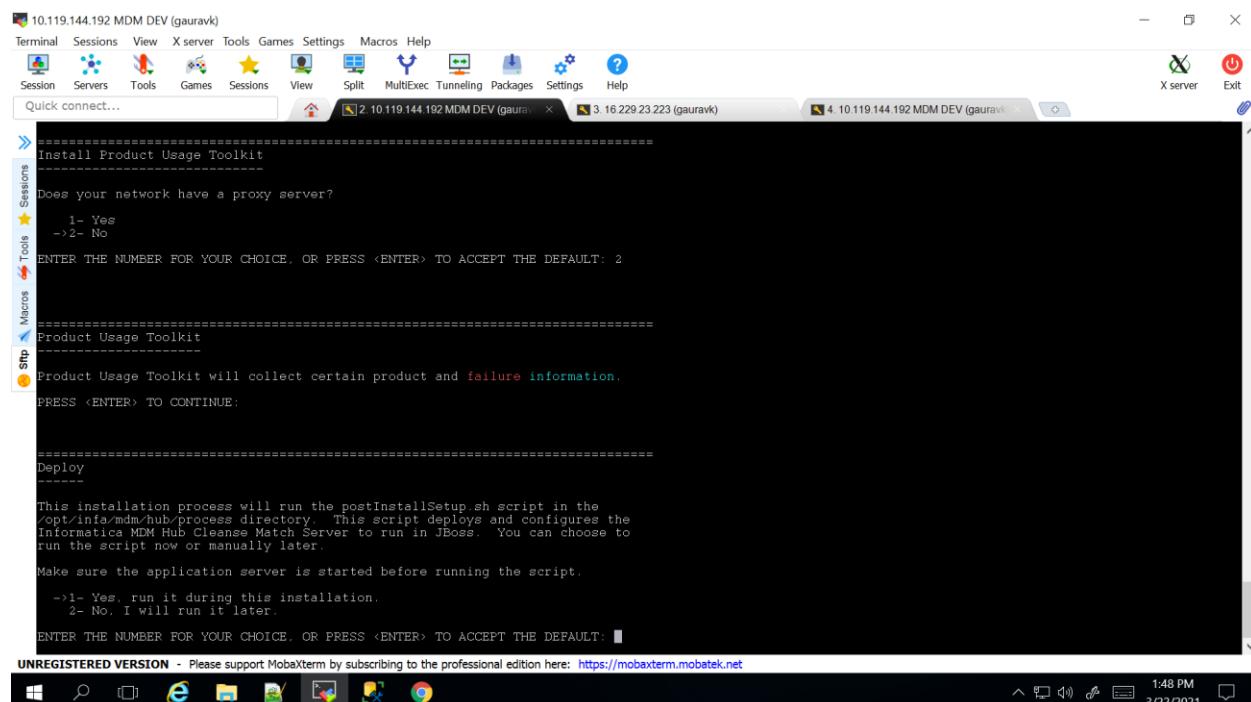
Does your network have a proxy server?
1- Yes
->2- No

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 2

```

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- Run the post installation script during the installation



```

10.119.144.192 MDM DEV (gauravk)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings ??
X server Exit
Quick connect... 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)

=====
Install Product Usage Toolkit

Does your network have a proxy server?
1- Yes
->2- No

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 2

=====
Product Usage Toolkit

Product Usage Toolkit will collect certain product and failure information.

PRESS <ENTER> TO CONTINUE:

=====
Deploy

This installation process will run the postInstallSetup.sh script in the
/opt/infa/mdm/hub/process directory. This script deploys and configures the
Informatica MDM Hub Cleanse Match Server to run in JBoss. You can choose to
run the script now or manually later.

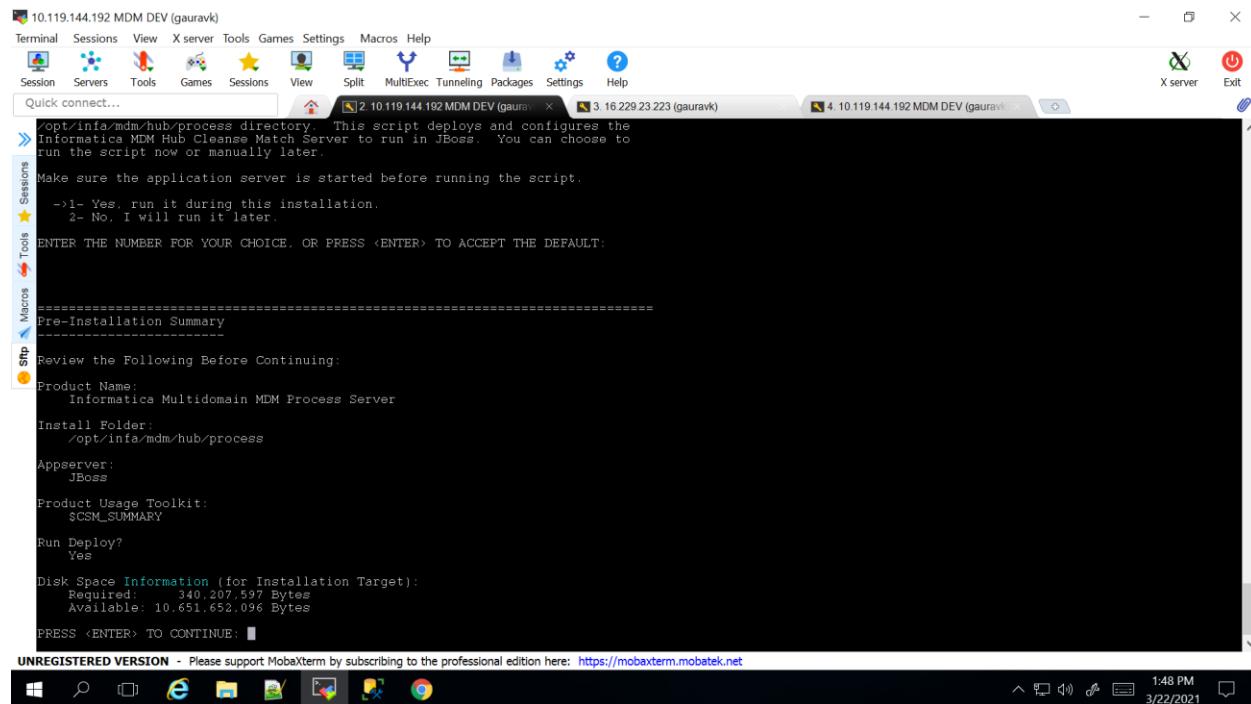
Make sure the application server is started before running the script.

->1- Yes, run it during this installation.
2- No, I will run it later.

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

```

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10.119.144.192 MDM DEV (gauravk)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect... 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)

```
>>> /opt/infa/mdm/hub/process directory. This script deploys and configures the
>>> Informatica MDM Hub Cleanse Match Server to run in JBoss. You can choose to
>>> run the script now or manually later.

Make sure the application server is started before running the script.

->>1- Yes, run it during this installation.
2- No, I will run it later.

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

=====
Pre-Installation Summary
=====

Review the Following Before Continuing.

Product Name:
  Informatica Multidomain MDM Process Server

Install Folder:
  /opt/infa/mdm/hub/process

Appserver:
  JBoss

Product Usage Toolkit:
  $CSM_SUMMARY

Run Deploy?
  Yes

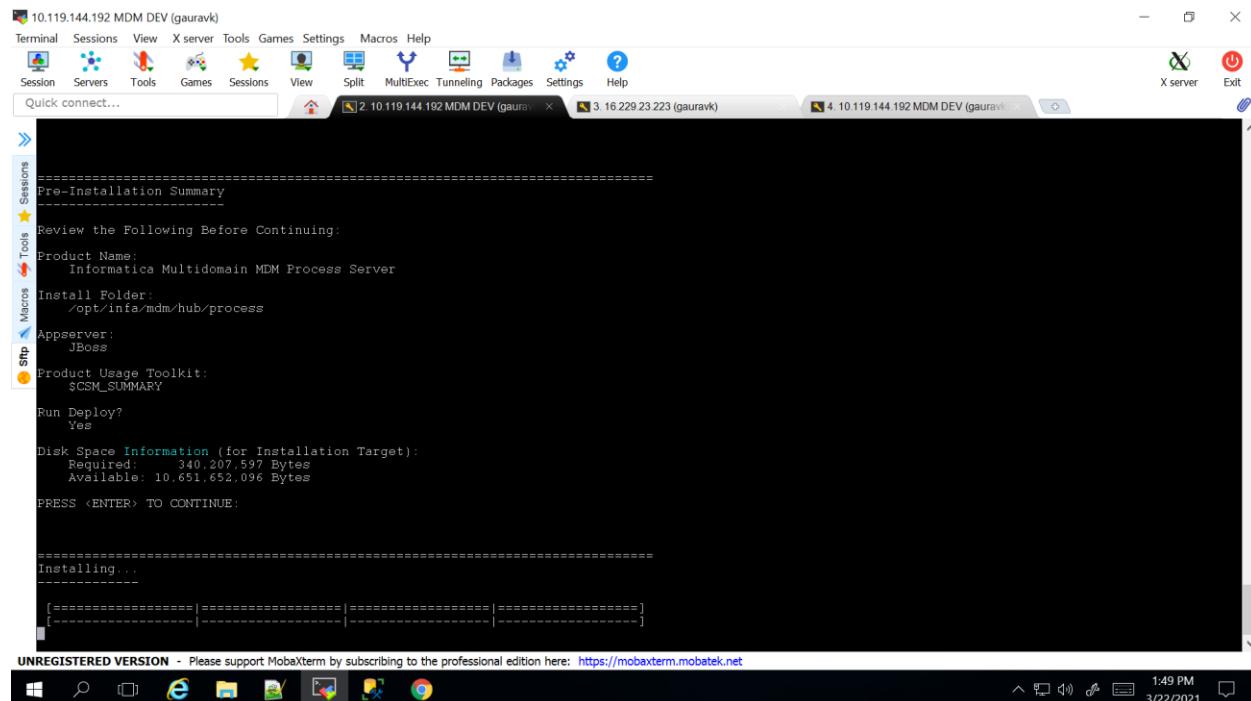
Disk Space Information (for Installation Target):
  Required: 340,207,597 Bytes
  Available: 10,651,652,096 Bytes

PRESS <ENTER> TO CONTINUE:
```

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- Verify the Pre-Installation Summary for the values entered and press ENTER to begin the Installation



10.119.144.192 MDM DEV (gauravk)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect... 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)

```
=====
Pre-Installation Summary
=====

Review the Following Before Continuing.

Product Name:
  Informatica Multidomain MDM Process Server

Install Folder:
  /opt/infa/mdm/hub/process

Appserver:
  JBoss

Product Usage Toolkit:
  $CSM_SUMMARY

Run Deploy?
  Yes

Disk Space Information (for Installation Target):
  Required: 340,207,597 Bytes
  Available: 10,651,652,096 Bytes

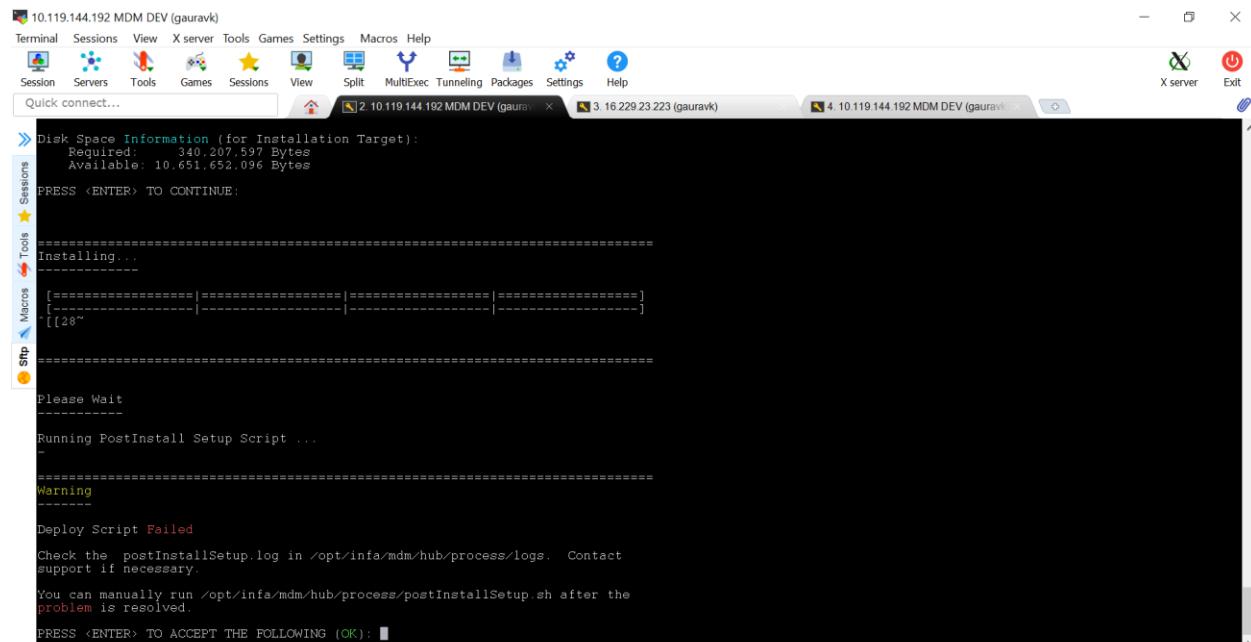
PRESS <ENTER> TO CONTINUE:

=====
Installing...
=====

[=====|=====|=====|=====]
```

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```

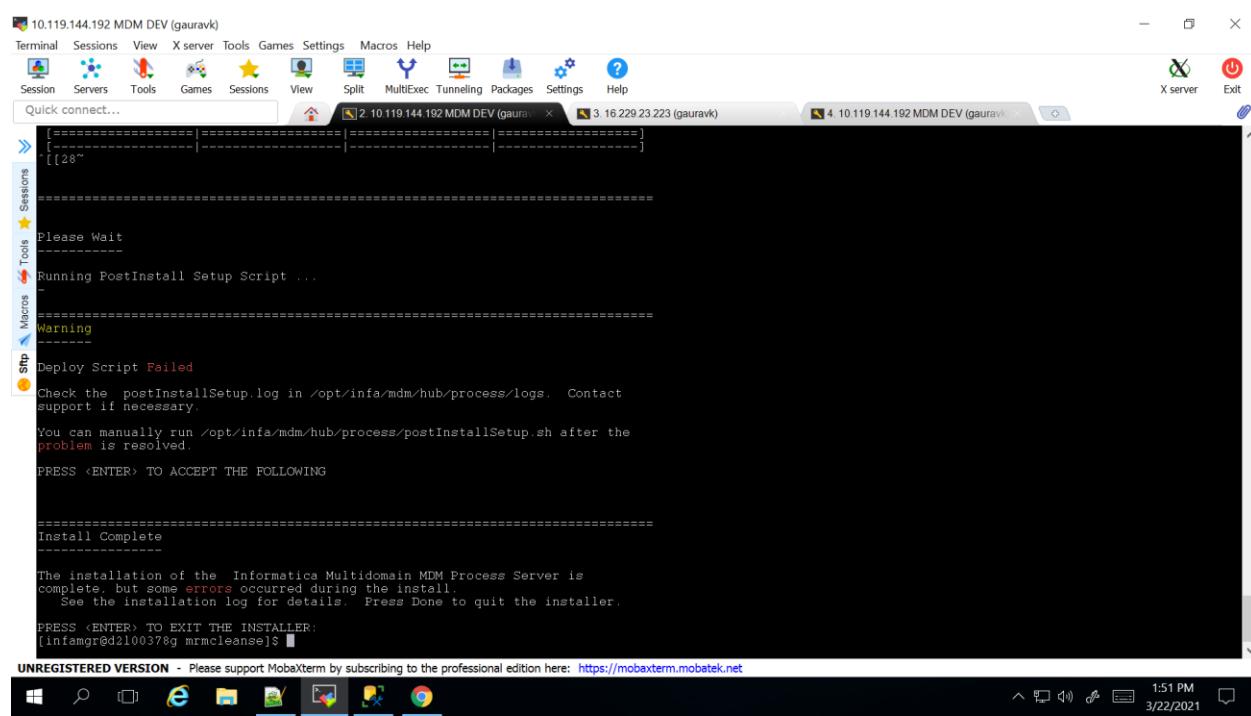
10.119.144.192 MDM DEV (gaurav)
Disk Space Information (for Installation Target):
Required: 340.207.597 Bytes
Available: 10.651.652.096 Bytes
PRESS <ENTER> TO CONTINUE:

=====
Installing...
[=====| =====| =====| =====]
[ [28%]
=====
Please Wait
-----
Running PostInstall Setup Script ...

=====
Warning
-----
Deploy Script Failed
Check the postInstallSetup.log in /opt/infa/mdm/hub/process/logs. Contact
support if necessary.
You can manually run /opt/infa/mdm/hub/process/postInstallSetup.sh after the
problem is resolved.
PRESS <ENTER> TO ACCEPT THE FOLLOWING (OK): ■

```

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```

10.119.144.192 MDM DEV (gaurav)
Disk Space Information (for Installation Target):
Required: 340.207.597 Bytes
Available: 10.651.652.096 Bytes
PRESS <ENTER> TO CONTINUE:

=====
[=====| =====| =====| =====]
[ [28%
=====
Please Wait
-----
Running PostInstall Setup Script ...

=====
Warning
-----
Deploy Script Failed
Check the postInstallSetup.log in /opt/infa/mdm/hub/process/logs. Contact
support if necessary.
You can manually run /opt/infa/mdm/hub/process/postInstallSetup.sh after the
problem is resolved.
PRESS <ENTER> TO ACCEPT THE FOLLOWING

=====
Install Complete
-----
The installation of the Informatica Multidomain MDM Process Server is
complete, but some errors occurred during the install.
See the installation log for details. Press Done to quit the installer.

PRESS <ENTER> TO EXIT THE INSTALLER:
[linfamgr@d2l00378g mmrcleanse]S ■

```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

- Run the Post Install Script.

```

10.119.144.192 MDM DEV (gauravk)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect... 2 10.119.144.192 MDM DEV (gauravk) 3 16.229.23.223 (gauravk) 4 10.119.144.192 MDM DEV (gauravk)
X server Exit

>> Check the postInstallSetup.log in /opt/infa/mdm/hub/process/logs. Contact support if necessary.
You can manually run /opt/infa/mdm/hub/process/postInstallSetup.sh after the problem is resolved.
PRESS <ENTER> TO ACCEPT THE FOLLOWING

=====
Install Complete

The installation of the Informatica Multidomain MDM Process Server is complete, but some errors occurred during the install.
See the installation log for details. Press Done to quit the installer.

PRESS <ENTER> TO EXIT THE INSTALLER:
[infamgr@d2l00378g mrmcleanse]$ /opt/infa/mdm/hub/process/postInstallSetup.sh
Current folder : /opt/infa/mdm/hub/process/bin
Current script : /opt/infa/mdm/hub/process/bin/sip_ant.sh
Parameters :
JBoss Home : /opt/jboss/jboss-eap-7.2
Siperian Home : /opt/infa/mdm/hub/process
Java Home : /opt/jboss/java/zulu8.40.0.20-sa-jdk8.0.222-linux_x64
Classpath : /opt/infs/mdm/hub/process/lib/ant.jar:/opt/infs/mdm/hub/process/lib/xml-api.jar:/opt/infa/mdm/hub/process/lib/xercesImpl.jar:/opt/infa/mdm/hub/process/lib/log4j-1.2.16.jar:/opt/infa/mdm/hub/process/lib/siperian-common.jar:/opt/jboss/jboss-eap-7.2/bin/client/jboss-cli-client.jar:/opt/jboss/jboss-eap-7.2/bin/client/jboss-client.jar:/opt/jboss/java/zulu8.40.0.20-sa-jdk8.0.222-linux_x64/lib/rt.jar:/opt/jboss/java/zulu8.40.0.20-sa-jdk8.0.222-linux_x64/lib/118n.jar
OpenJDK 64-Bit Server VM warning: ignoring option MaxPermSize=256m: support was removed in 8.0
Buildfile: /opt/infa/mdm/hub/process/bin/build.xml
*** DEPLOYMENT SUCCESSFUL ***
*** View execution results in log file : /opt/infa/mdm/hub/process/logs/postInstallSetup.log ***
[infamgr@d2l00378g mrmcleanse]$ 

```

UNREGISTERED VERSION - Please support Mobaxterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

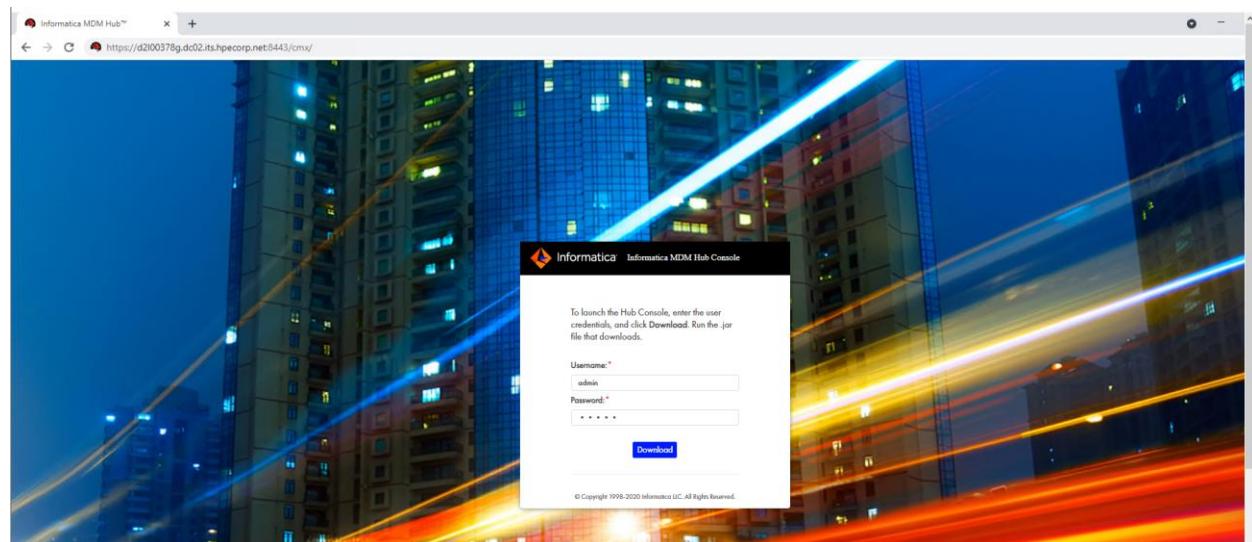
9. Post Installation Configuration

Post Installation for Node 1

Use the below URL and credential to Launch the Informatica MDM Hub Console.

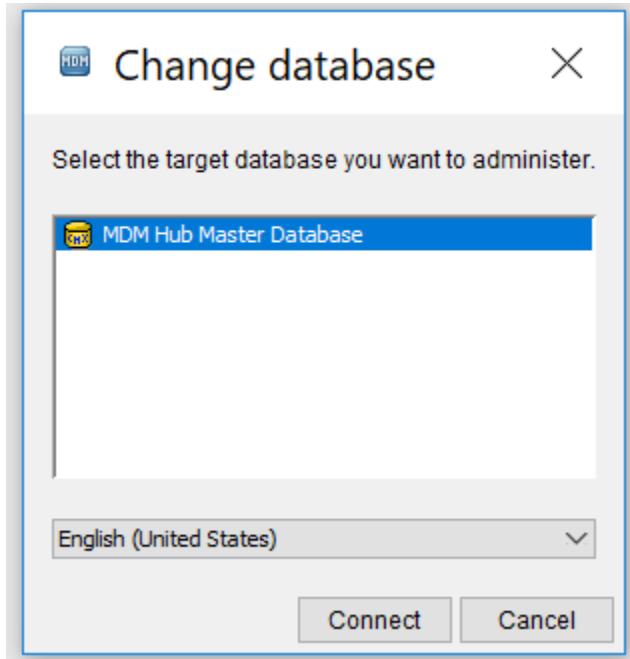
URL: <https://d2l00378g.dc02.its.hpecorp.net:8443/cmx/>

User: **admin**
Password: **admin**



Login to the application to download the **HubConsole.jar** file and launch the same to login to MDM hub console.

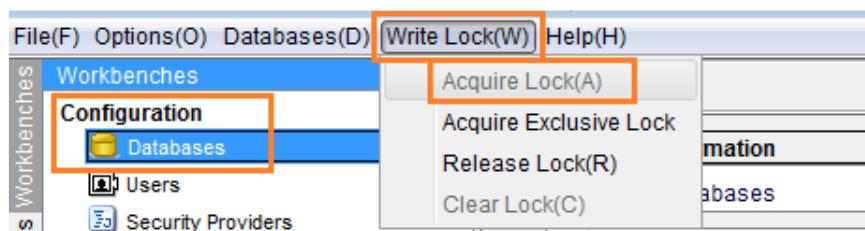
Select target database and click Connect Target database is the **MDM Hub Master Database**.



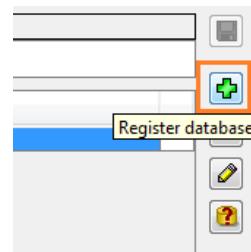
9.1. Register ORS

After an Operational Reference Store (**CMX_ORS**) is created, register the ORS through the Hub Console.

1. Start the Hub Console. **Change database** dialog box appears.
2. Select **MDM Hub Master Database** and click **Connect**.
3. Start the **Databases** tool under the **Configuration** workbench.
4. Click **Write Lock** > **Acquire Lock**.



5. Click **Register database** button on the right. The Informatica MDM Hub Connection Wizard appears and prompts to select the database type.



Informatica MDM Hub Console - For Hewlett-Packard Company_MDM_V104 Production

File(F) Options(O) Databases(D) Write Lock(W) Help(H)

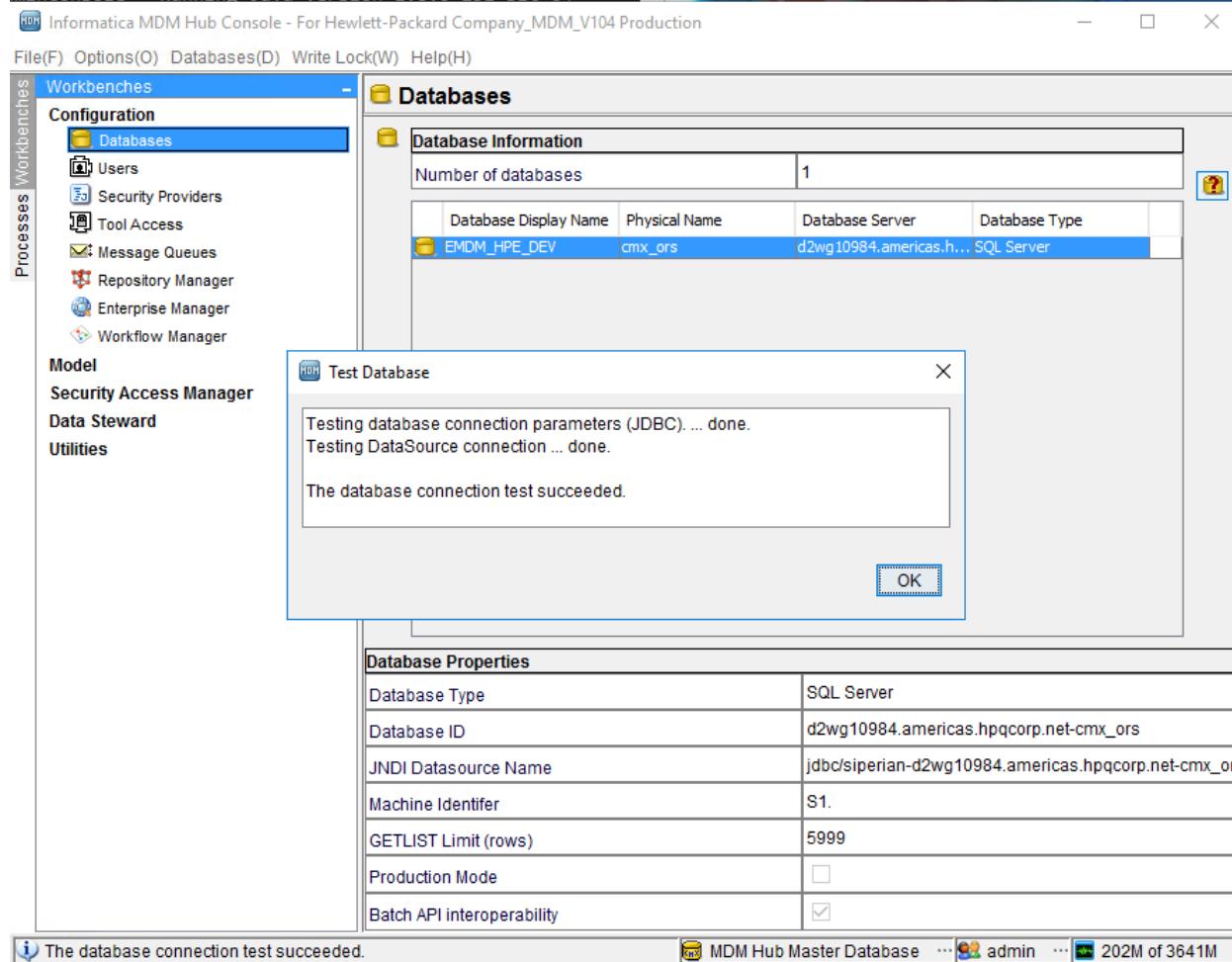
Workbenches Configuration Processes Model

Databases

Number of databases 1

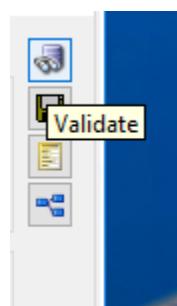
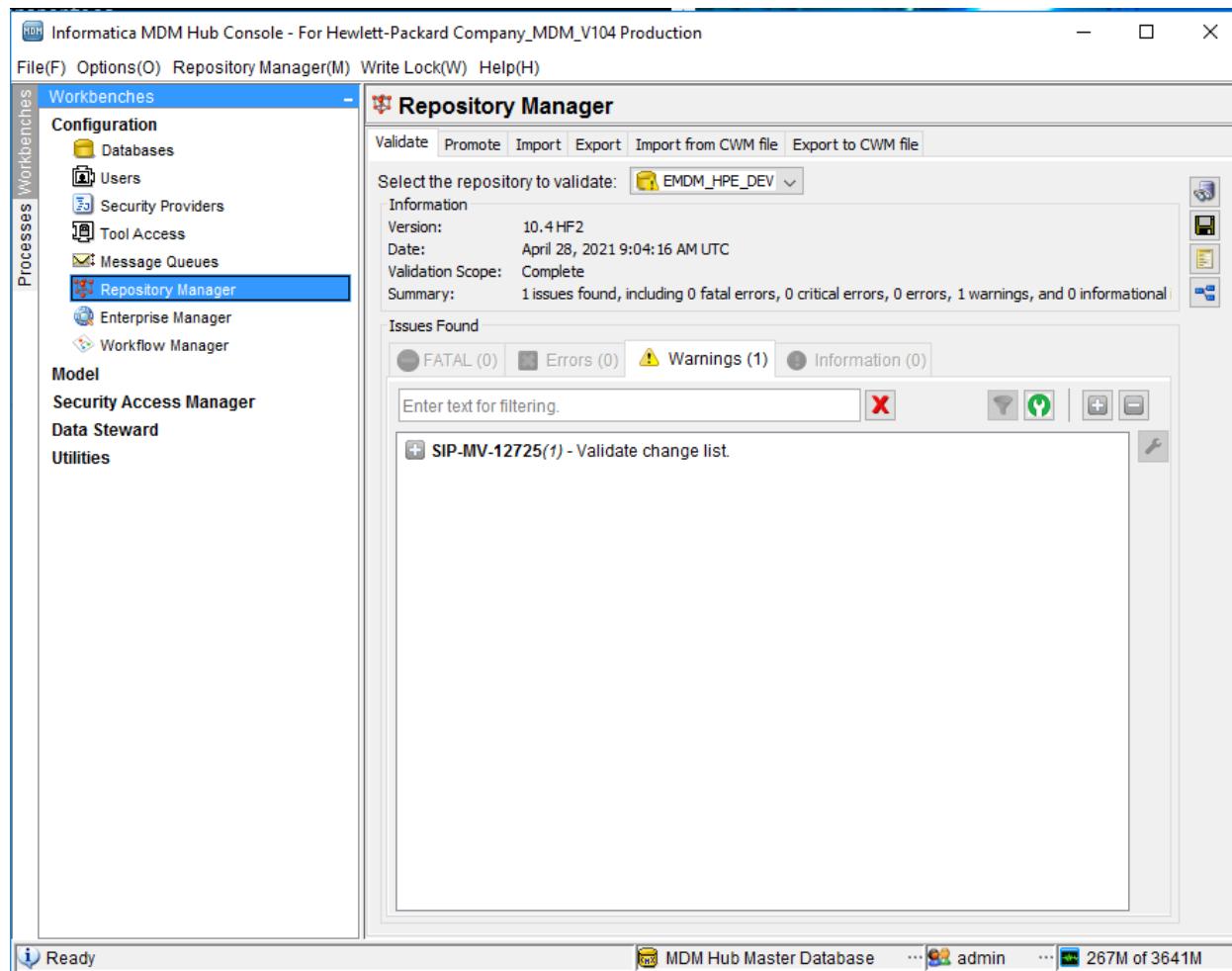
Database Display Name	Physical Name	Database Server	Database Type
EMDM_HPE_DEV	cmx_ors	d2wg10984.americas.h...	SQL Server

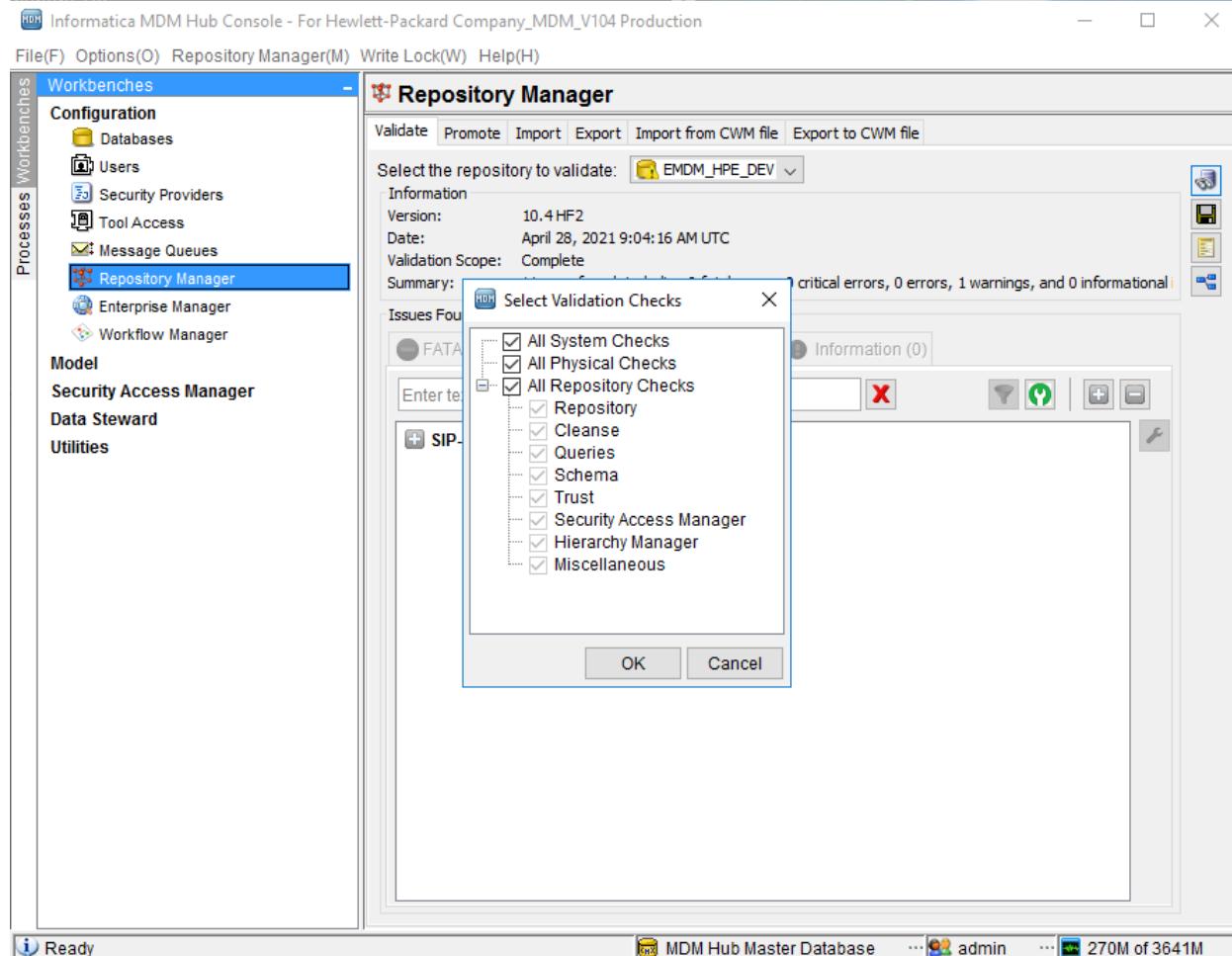
Ready MDM Hub Master Database admin 201M of 3641M

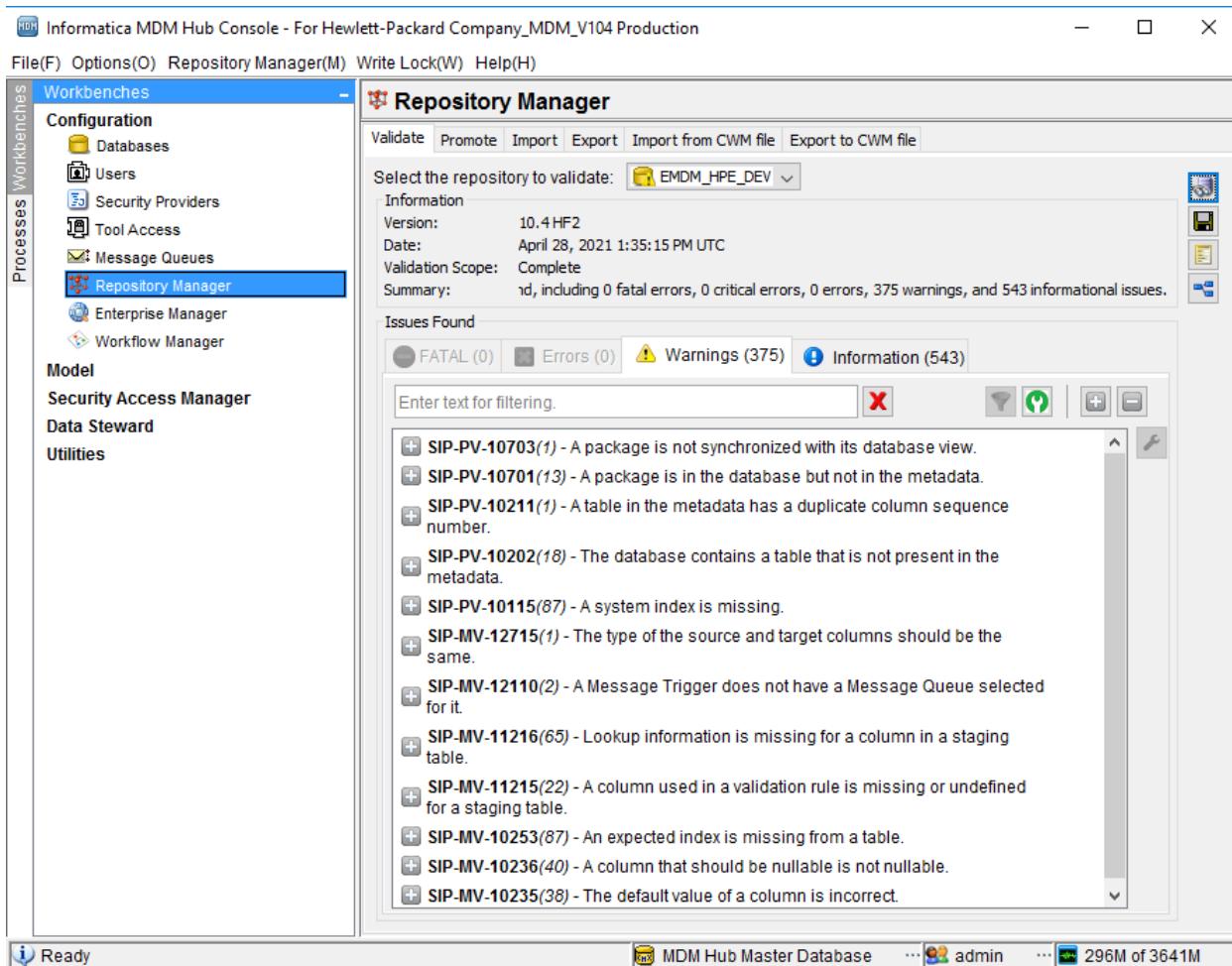


9.2. Validate ORS

Go to Repository Manager → Select the ORS and click on Validate icon at right top corner.





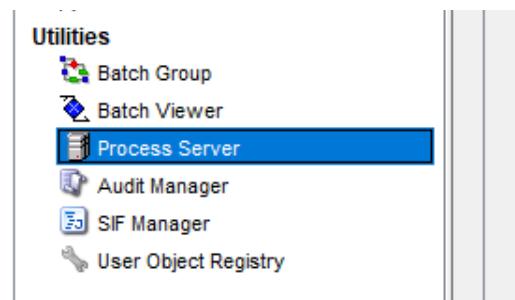


9.3. Configure Process server

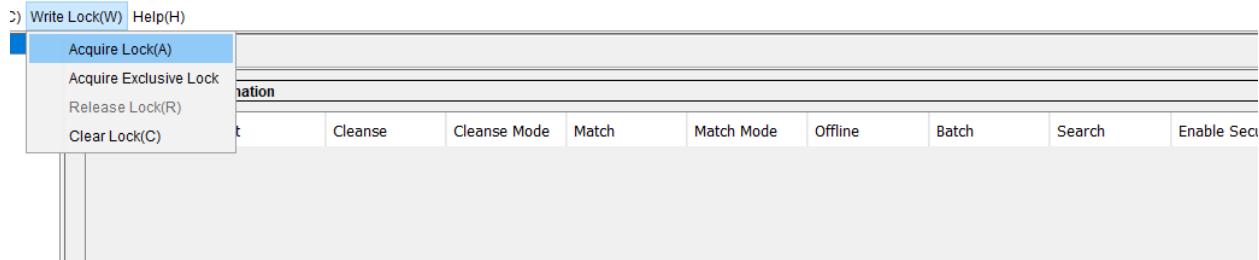
Configure a Process Server for the MDM Hub implementation. Process Server is a servlet that cleanses data and processes batch jobs. Process Server is multithreaded so that each instance can process multiple requests concurrently.

Add Process Server:

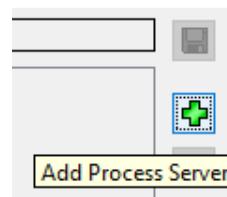
2. Click Process Server under utilities and switch to the ORS (**cmx_ors**)



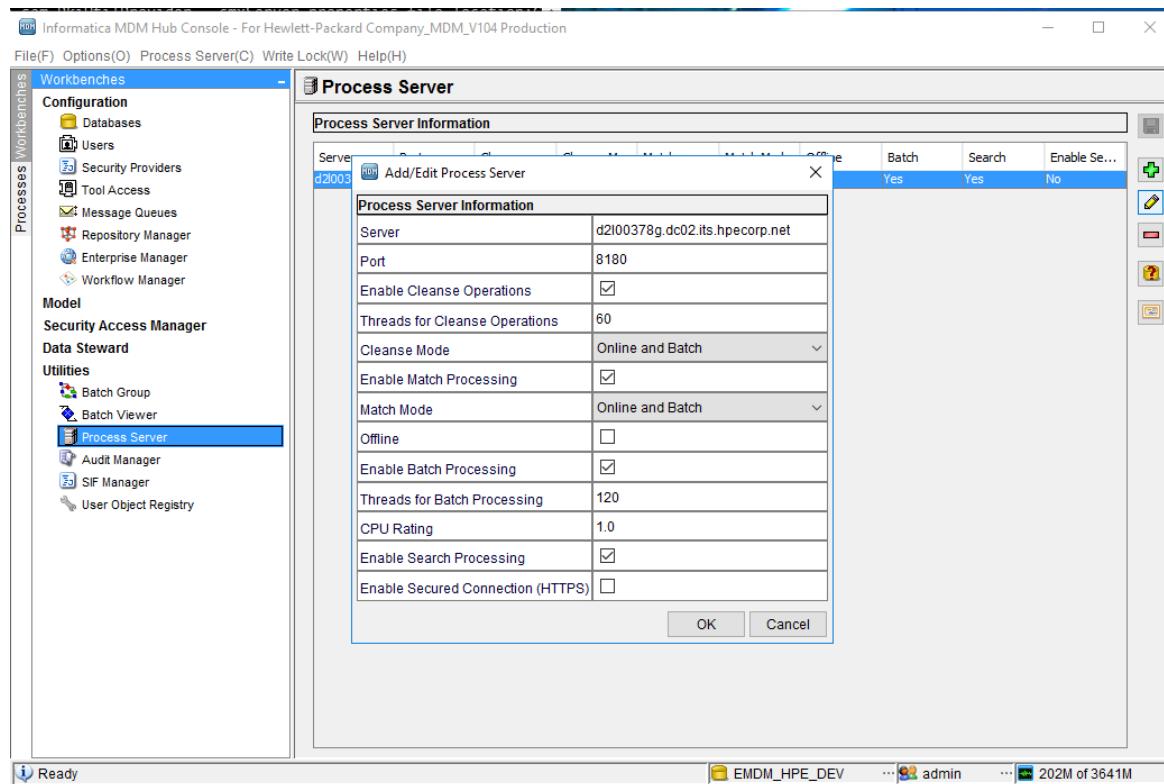
3. Acquire write lock.



- In the right pane of the Process Server tool, click the Add Process Server button to add a Process Server.

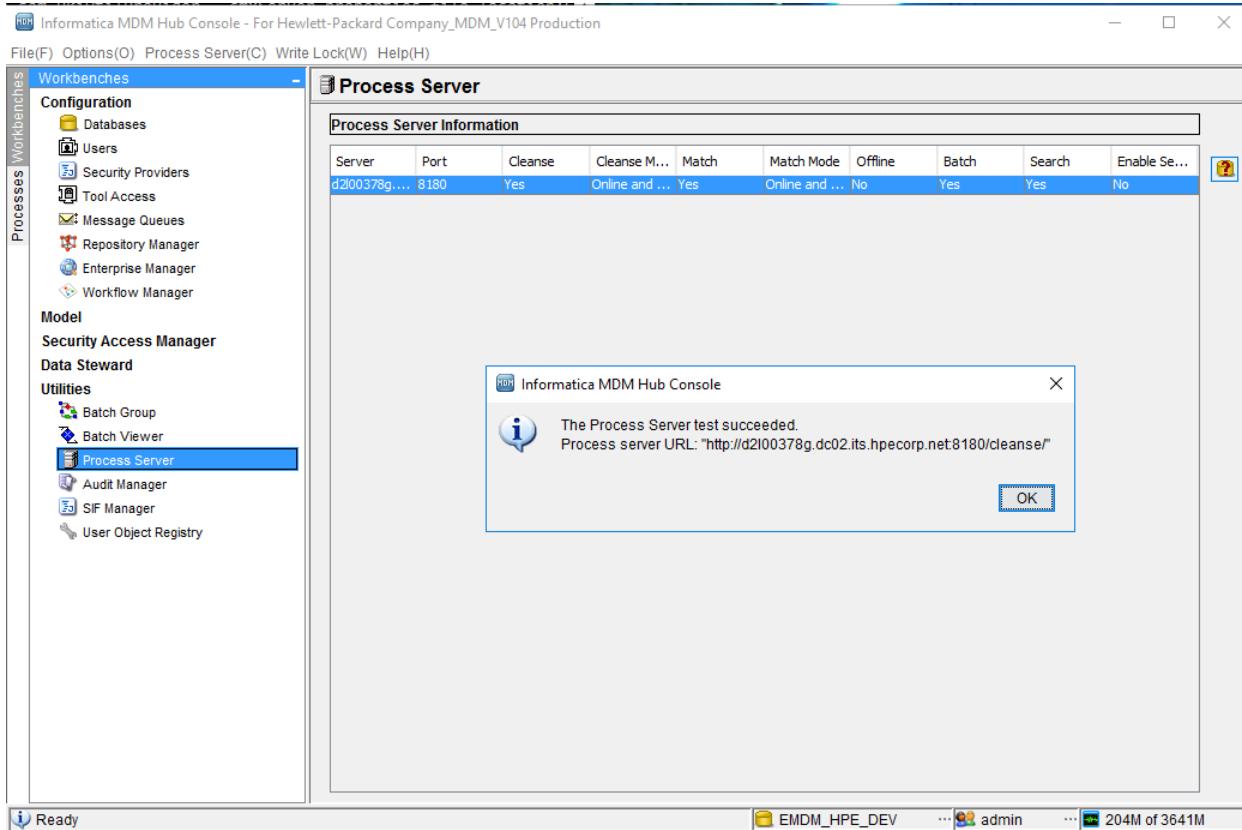


- Add/Edit Process Server dialog box appears



- Set the properties for the Process Server.
- Click OK.
- Click the Save.
- Select the Process Server

10. Click the Test Process Server button to test the configuration.



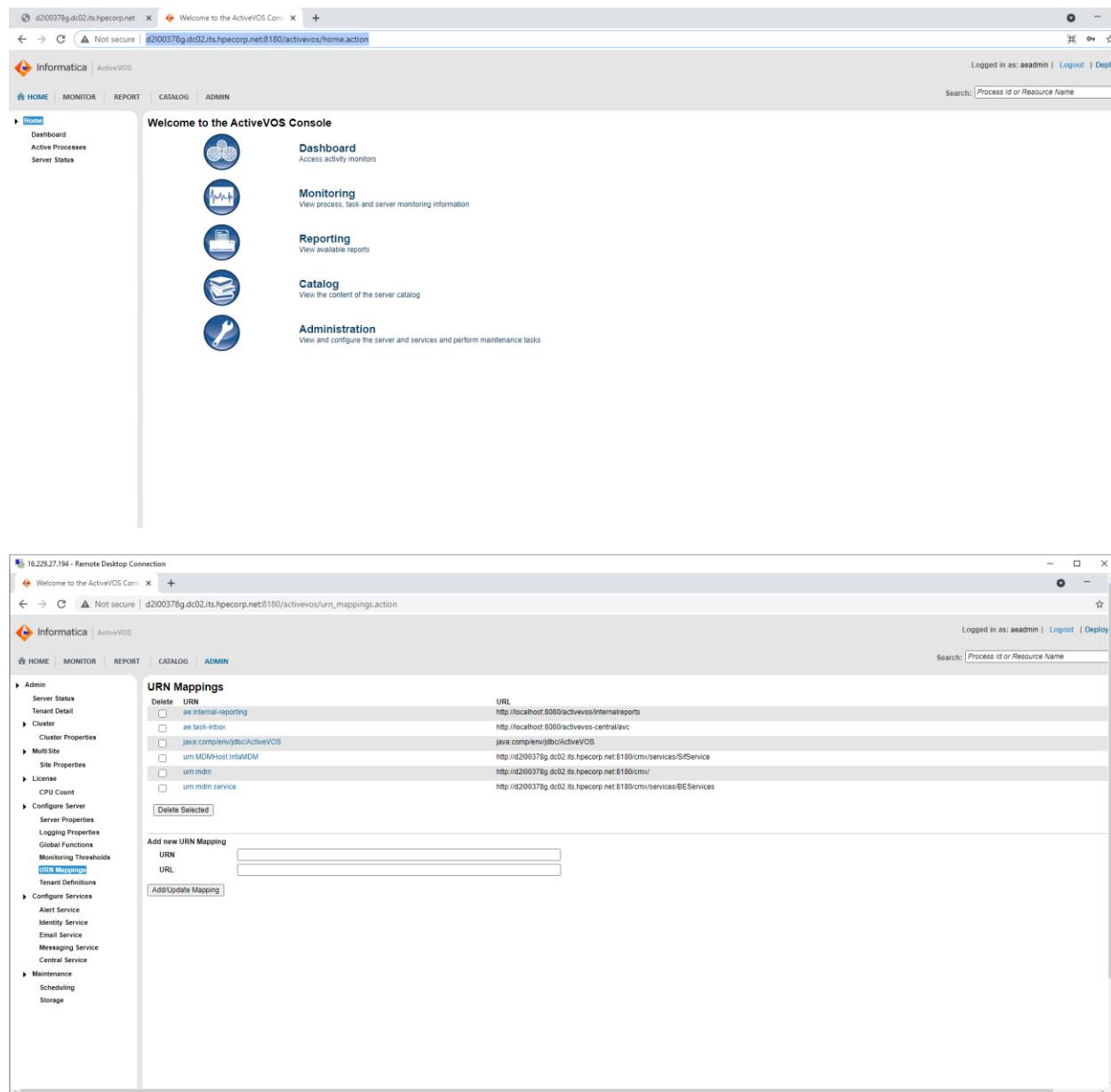
11. If the test succeeds, the Process Server tool displays a window showing the connection information and a success message.
12. Save the configuration.

9.4. Update URN Mappings in AVOS

Login to <https://d2l00378g.dc02.its.hpecorp.net:8180/activevos/home.action> using avadmin user.

Username	Password
Avadmin	avos@admin99#

Under URN Mappings tab, ensure all the URL's are using full host name as shown



The screenshot displays two browser windows side-by-side.

Left Window (Home Page):

- Title: Welcome to the ActiveVOS Console
- URL: d2l00378g.dc02.its.hpecorp.net:8180/activevos/home.action
- Header: Logged in as: aedmin | Logout | Deploy
- Search Bar: Search: Process Id or Resource Name
- Navigation: HOME | MONITOR | REPORT | CATALOG | ADMIN
- Main Content: "Welcome to the ActiveVOS Console" with five links: Dashboard, Monitoring, Reporting, Catalog, and Administration, each with an icon and a brief description.

Right Window (URN Mappings):

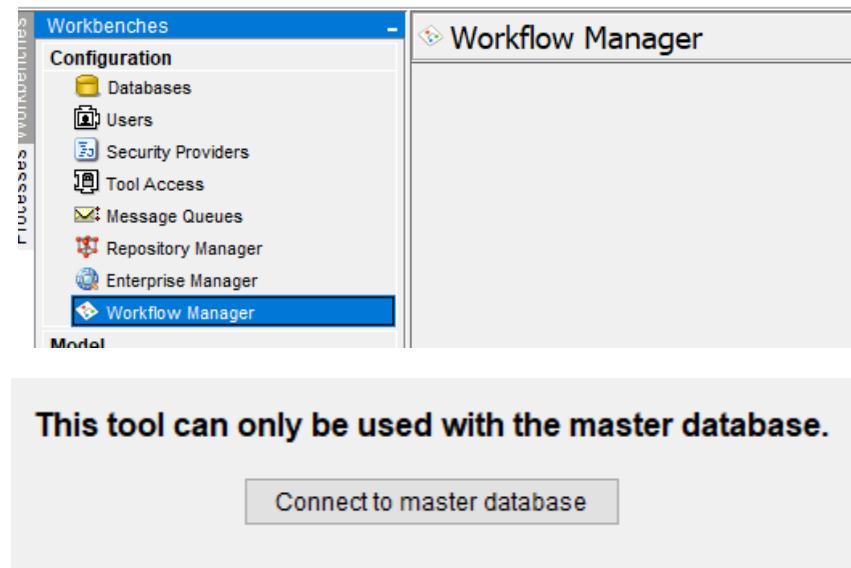
- Title: 16.229.27.194 - Remote Desktop Connection
- URL: d2l00378g.dc02.its.hpecorp.net:8180/activevos/urn_mappings.action
- Header: Logged in as: aedmin | Logout | Deploy
- Search Bar: Search: Process Id or Resource Name
- Navigation: HOME | MONITOR | REPORT | CATALOG | ADMIN
- Left Sidebar (Admin section):
 - Server Status
 - Tenant Detail
 - Cluster
 - Cluster Properties
 - Multi-Site
 - Site Properties
 - License
 - CPU Count
 - Configure Server
 - Server Properties
 - Logging Properties
 - Global Functions
 - Monitoring Thresholds
 - URN Mappings** (highlighted)
 - Tenant Definitions
 - Configure Services
 - Alert Service
 - Identity Service
 - Email Service
 - Messaging Service
 - Central Service
 - Maintenance
 - Scheduling
 - Storage
- Main Content:
 - URN Mappings** table:

Delete	URN	URL
<input type="checkbox"/>	ae/internal-reporting	http://localhost:8080/activevos/internal/reports
<input type="checkbox"/>	ae/task-inbox	http://localhost:8080/activevos-central/avc
<input type="checkbox"/>	java.com/envidfbc/ActiveVOS	java.com/envidfbc/activeVOS
<input type="checkbox"/>	um.MDMHost.InfoMDM	http://d2l00378g.dc02.its.hpecorp.net:8180/cm/services/SIService
<input type="checkbox"/>	um.mdm	http://d2l00378g.dc02.its.hpecorp.net:8180/cm/
<input type="checkbox"/>	um.mdm.service	http://d2l00378g.dc02.its.hpecorp.net:8180/cm/services/BEServices
 - Add new URN Mapping** form:

URN	<input type="text"/>
URL	<input type="text"/>
 - Add/Update Mapping** button

9.5. Configuring Workflow Engine

Click on Workflow manager in configuration workbench

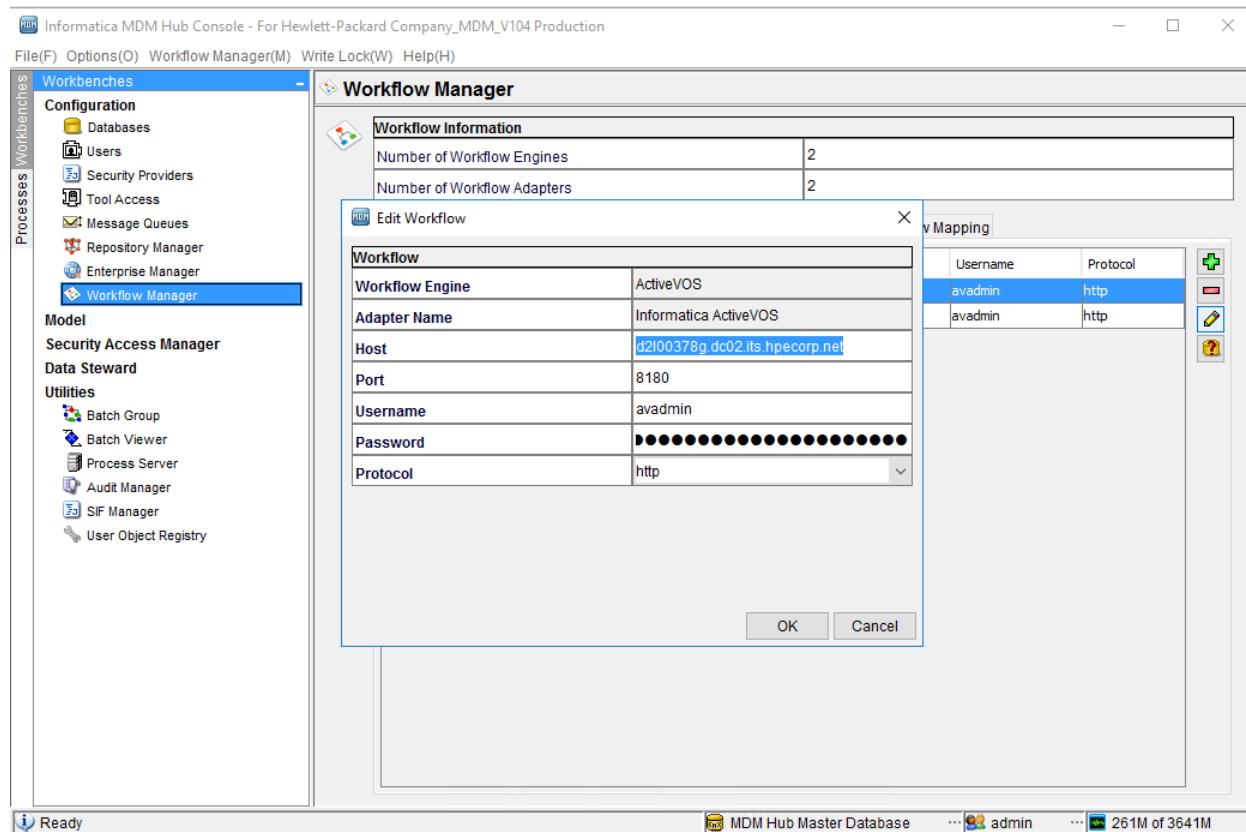


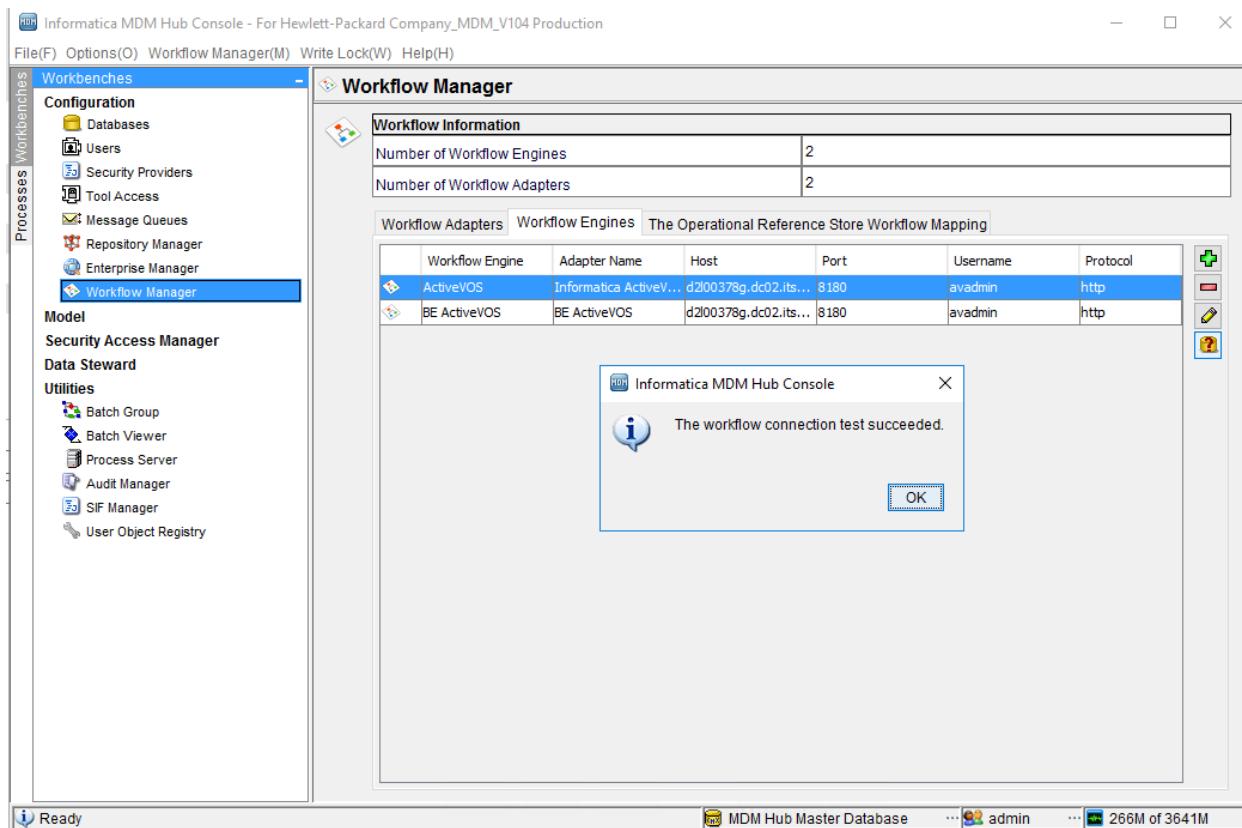
1. In the Hub Console, click Workflow Manager in the Configuration workbench.
2. Acquire a write lock.
3. Select the Workflow Engines tab and click the Add button.
4. In the Add Workflow dialog box, enter the workflow engine properties.

The screenshot shows the Informatica MDM Hub Console interface. The title bar reads "Informatica MDM Hub Console - For Hewlett-Packard Company_MDM_V104 Production". The menu bar includes File(F), Options(O), Workflow Manager(M), Write Lock(W), and Help(H). The left sidebar lists various workbenches: Workbenches (Configuration, Databases, Users, Security Providers, Tool Access, Message Queues, Repository Manager, Enterprise Manager, Workflow Manager), Processes (Workflow Manager selected), Model, Security Access Manager, Data Steward, Utilities (Batch Group, Batch Viewer, Process Server, Audit Manager, SIF Manager, User Object Registry). The main panel is titled "Workflow Manager" and contains a "Workflow Information" section with fields for "Number of Workflow Engines" (2) and "Number of Workflow Adapters" (2). Below this is a table titled "Workflow Engines" with two rows:

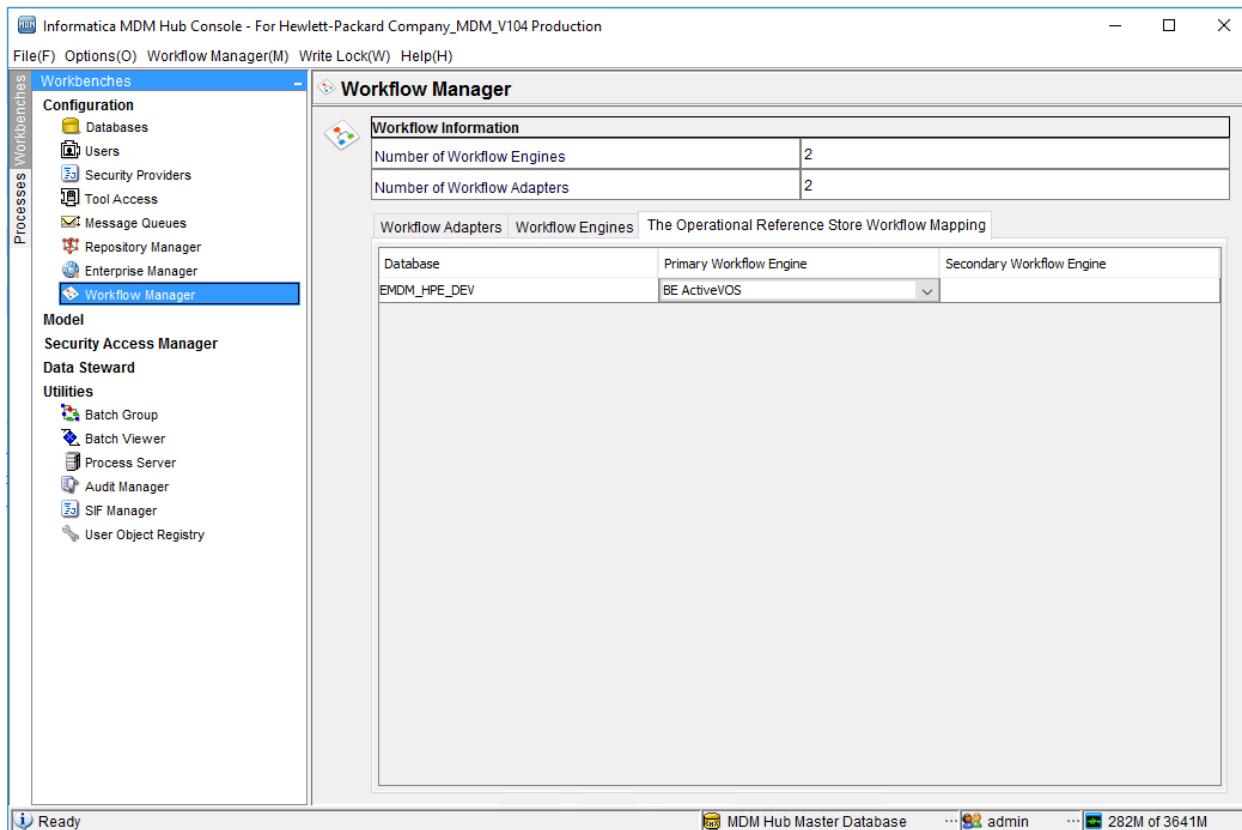
Workflow Engine	Adapter Name	Host	Port	Username	Protocol
ActiveVOS	Informatica ActiveVOS	d200378g.dc02.its...	8180	avadmin	http
BE ActiveVOS	BE ActiveVOS	d200378g.dc02.its....	8180	avadmin	http

At the bottom of the screen, there are status indicators: "Ready", "MDM Hub Master Database", "admin", and "243M of 3641M".





5. Set the Primary Workflow Engine as BEActiveVOS and keep Secondary Workflow Engine as Null



9.6. Configuring the MDM Identity Services for ActiveVOS

1. In the ActiveVOS console, select Admin > Configure Services > Identity Services.
2. In the Provider Configuration section, enable the Enable check box and select MDM from the Provider Type list.
3. In the Connection tab, enter the password of the MDM Hub user with the user name admin. Note: If you later change the password for the admin user, you must enter the new password in the ActiveVOS identity service settings.
4. Click Update.

The screenshot shows the 'Identity Service' configuration page within the ActiveVOS Control Center. The left sidebar contains a navigation menu with categories like Admin, Cluster, Multi-Site, License, Configure Server, Alert Service, Identity Service (which is selected and highlighted in blue), Email Service, Messaging Service, Central Service, and Maintenance. The main content area is titled 'Identity Service' and 'Provider Configuration'. It includes sections for 'Enable' (checkbox checked) and 'Provider Type' (set to 'MDM'). Below this is a 'Connection Settings' section with tabs for Connection, Users, Groups, Cache, and Test. Under Connection Settings, there are fields for 'MDM Connection Settings' with 'Password' and 'Confirm Password' both set to '*****'. There is also an 'Update' button. At the bottom is an 'Import/Export Identity Configuration' section with 'Export' and 'Import' buttons, and a 'Choose File' input field showing 'No file chosen'.

5. Update Administrator password for the user "admin".
6. Create a Role in SAM and assign all privileges.
7. Assign Administrator Role to admin

10. Resource Kit Installation

- Navigate to the directory “ /opt/jboss/sw_install/linux/mrmresourcekit” and run the command “./hub_resourcekit_install.bin -i console”
- Follow the installer set up with the below values

```
[infamgr@d2100378g mrmresourcekit]$ ./hub_resourcekit_install.bin -i console
Preparing to install
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

=====
Choose Locale...
-----
1- Deutsch
->2- English
3- Español
4- Français
5- Português (Brasil)
6- Русский
7- 日本語
8- 简体中文
9- 한국어

Choose locale by number: 2
=====
Informatica MDM Hub Resource Kit           (created with InstallAnywhere)
-----

Preparing CONSOLE Mode Installation...

=====
Introduction
-----
The Informatica Installer will guide you through the installation of the
Informatica MDM Hub Resource Kit.

Your application server should be up and running for the Informatica MDM Hub
Resource Kit deployment to be successful.
It is strongly recommended that you quit all other programs before continuing
with this installation.

Respond to each prompt to proceed to the next step in the installation. If
you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:

=====
License Agreement
-----
```

Installation and Use of Informatica MDM Hub Resource Kit Requires Acceptance of the Following License Agreement:

INFORMATICA LLC

The Informatica MDM suite of products and related data and information are proprietary to and the confidential information of Informatica LLC and are the subject to the intellectual property rights of Informatica LLC. All use, disclosure, copying, transfer or storage of any of the foregoing, except as authorized by a separate written license agreement with Informatica LLC, is strictly prohibited.

BY CLICKING AGREE AND INSTALLING INFORMATICA MDM, YOU AGREE TO BE BOUND BY THE PRODUCT USAGE TOOLKIT END USER LICENSE AGREEMENT, WHICH IS AVAILABLE AT: <http://www.informatica.com/us/eula/en-support-eula.aspx>. AS FURTHER DESCRIBED IN THE EULA, YOUR USE OF THE INFORMATICA MDM WILL ENABLE OUR PRODUCT USAGE TOOLKIT TO COLLECT CERTAIN PRODUCT AND FAILURE INFORMATION. YOU MAY DISABLE THIS FEATURE AT ANY TIME AS MORE FULLY DESCRIBED IN THE DOCUMENTATION. After you install Informatica MDM, you can opt-out of data usage collection by editing mdmsupport.properties file in the support directory within the installation folder

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Redwood City, CA 94063
USA
Phone: +1 650-385-5000

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Email: [info@informatica.com]
Support [support@informatica.com]

DO YOU ACCEPT THE TERMS OF THIS LICENSE AGREEMENT? (Y/N): Y

=====

Installation Features

=====

Choose the features you would like to install.

- >1- Sample Schema
- >2- Samples and Utilities
- >3- SIF SDK and Javadocs
- >4- BPM SDK
- >5- SSA Name3
- >6- Security Library and Artifacts

ENTER A COMMA-SEPARATED LIST OF NUMBERS REPRESENTING THE DESIRED CHOICES, OR
PRESS <ENTER> TO ACCEPT THE DEFAULT: 2

=====

Information

=====

You must create the Sample Schema and register it with the Informatica MDM Hub
Server before installing the sample applications.

PRESS <ENTER> TO ACCEPT THE FOLLOWING (OK):

=====

Choose Install Folder

=====

Where would you like to install?

Default Install Folder: /home/infamgr/infadm/hub/resourcekit

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
: /opt/infa/mdm/hub/resourcekit

INSTALL FOLDER IS: /opt/infa/mdm/hub/resourcekit
IS THIS CORRECT? (Y/N): Y

=====

Choose Link Location

=====

Where would you like to create links?

- >1- Default: /opt/infa/mdm/hub/resourcekit
- 2- In your home folder
- 3- Choose another location...

- 4- Don't create links

ENTER THE NUMBER OF AN OPTION ABOVE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
: 1

=====

Configuration Selection

=====

Do you want to install just sources of samples, or do you also want to configure them? If you select Source only, samples can not be configured and deployed later. For samples configuration, the application server and the hub server should be running. Also, the sample schema should be registered with the system database.

- >1- Configure Samples
- 2- Source only

ENTER A COMMA-SEPARATED LIST OF NUMBERS REPRESENTING THE DESIRED CHOICES, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

=====

Sample App Server

=====

Choose the application server to install Informatica MDM Hub Resource Kit.

- >1- JBoss
- 2- WebSphere
- 3- WebLogic

ENTER A COMMA-SEPARATED LIST OF NUMBERS REPRESENTING THE DESIRED CHOICES, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

=====

JBoss Application Server Home

=====

Select the path for the application server home: (Example: /jboss)

Path (Default: /): /opt/jboss/jboss-eap-7.2

=====

JBoss Application Server Configuration Name

=====

Specify JBoss Application Server Configuration Name (Example: standalone, domain). This setting is used by the installer to deploy the Informatica MDM Hub Resource Kit to the JBoss Server.

Configuration Name (Default: standalone):

=====
JBoss Application Server Port

You can change different port for the application server here. For JBoss, the default remote listener port for EJB lookup is 4447.

JBoss Remote Port (Default: 4447):

=====
Informatica MDM Hub Server

Enter the information for your existing Informatica MDM Hub Server installation.

Server Name (Default: localhost): d2100378g.dc02.its.hpecorp.net

Server HTTP Port (Default: 8080): 8180

Informatica MDM Admin Password : admin

MDM HUB home directory (example: \infadm\hub\server) (Default:
\infadm\hub\server): \opt\infa\mdm\hub\server

=====
Sample Server ORS ID

Enter the Informatica MDM Client ORS ID to be used with the Sample Server.
Choose from the following list of existing ORS IDs for your Informatica MDM Hub Server:

d2wg10984.americas.hpqcorp.net-cmx_ors

ORS ID : d2wg10984.americas.hpqcorp.net-mdm_sample

=====
Error

The Client ORS ID that you have entered,
d2wg10984.americas.hpqcorp.net-mdm_sample, is not contained in the list of existing ORS IDs.

List of existing ORS IDs:
d2wg10984.americas.hpqcorp.net-cmx_ors

Press Enter to Return to the Previous Console and enter in the correct ORS ID.

PRESS <ENTER> TO ACCEPT THE FOLLOWING (OK) :

```
=====  
Sample Server ORS ID  
-----
```

```
Enter the Informatica MDM Client ORS ID to be used with the Sample Server.  
Choose from the following list of existing ORS IDs for your Informatica MDM  
Hub Server:  
d2wg10984.americas.hpqcorp.net-cmx_ors
```

```
ORS ID : back
```

```
=====  
Informatica MDM Hub Server  
-----
```

```
Enter the information for your existing Informatica MDM Hub Server  
installation.
```

```
Server Name (Default: localhost): back
```

```
=====  
JBoss Application Server Port  
-----
```

```
You can change different port for the application server here. For JBoss, the  
default remote listener port for EJB lookup is 4447.
```

```
JBoss Remote Port (Default: 4447): back
```

```
=====  
JBoss Application Server Configuration Name  
-----
```

```
Specify JBoss Application Server Configuration Name (Example: standalone,  
domain). This setting is used by the installer to deploy the Informatica MDM  
Hub Resource Kit to the JBoss Server.
```

```
Configuration Name (Default: standalone): back
```

```
=====  
JBoss Application Server Home  
-----
```

```
Select the path for the application server home: (Example: /jboss)
```

```
Path (Default: /): back
```

```
=====  
Sample App Server  
-----
```

```
Choose the application server to install Informatica MDM Hub Resource Kit.
```

- >1- JBoss
- 2- WebSphere
- 3- WebLogic

```
ENTER A COMMA-SEPARATED LIST OF NUMBERS REPRESENTING THE DESIRED CHOICES, OR
```

PRESS <ENTER> TO ACCEPT THE DEFAULT: back

=====

Configuration Selection

=====

Do you want to install just sources of samples, or do you also want to configure them? If you select Source only, samples can not be configured and deployed later. For samples configuration, the application server and the hub server should be running. Also, the sample schema should be registered with the system database.

- >1- Configure Samples
- 2- Source only

ENTER A COMMA-SEPARATED LIST OF NUMBERS REPRESENTING THE DESIRED CHOICES, OR
PRESS <ENTER> TO ACCEPT THE DEFAULT: 2

=====

Pre-Installation Summary

=====

Review the Following Before Continuing:

Product Name:
 Informatica MDM Hub Resource Kit

Install Folder:
 /opt/infa/mdm/hub/resourcekit

Link Folder:
 /opt/infa/mdm/hub/resourcekit

Auto Configure?
 No

Disk Space Information (for Installation Target):
 Required: 557,005,904 Bytes
 Available: 10,651,635,712 Bytes

PRESS <ENTER> TO CONTINUE:

=====

Installing...

=====

[=====|=====|=====|=====]
[-----|-----|-----|-----]

=====

Installation Complete

=====

Informatica MDM Hub Resource Kit has been successfully installed to:
/opt/infa/mdm/hub/resourcekit

PRESS <ENTER> TO EXIT THE INSTALLER:

11. Lessons Learned

a. Lesson 1

Unable to log into the HUB Console and Data Director Console after upgrade

Root Cause

We are not able to login to IDD because of out of date schema/SDO objects.

Resolution

Go to Hub > SIF Manager > SIF API Manager > Remove ORS-Specific APIs . Refersh Object Status > Select All Objects > Generate and Deploy ORS-Specific SIF APIs. Validate the ORS from Hub. Login to IDD . Clear the IDD cache, validate and redeploy the idd app if present.

b. Lesson 2

We are facing below error while running the Tokenization job for Party table,

Error Message

```
Current status: SIP-16126: Error occurred during Hub process Tokenize. Error was no jssan3cl in
java.library.path.
Tokenize; no jssan3cl in java.library.path;
```

Root Cause

The LD_LIBRARY Path was not set. The Path in the standalone.sh file was /opt/infa/hub/cleanse/

Resolution

Change the standalone.sh file to /opt/infa/hub/process and restart the server

c. Lesson 3

ORS Validation is failing with the error SIP-PV-10000 - Unable to load Informatica MDM metadata.

Root Cause

This issue occurs if tasks are assigned to users instead of role

Resolution

Delete the entries from C_REPO_TASK_ASSIGNMENT_CONF table of ORS and then validate the ORS.

Once the ORS is validated, change the tasks assigned to users in the BDD application config and assign the task type to a role

d. Lesson 4

SIF Refresh is not working after ORS Validation after Upgrade from 10.2 to 10.4 HF2

Root Cause

This issue occurs if the MDM_PUBLISH database is not present in the database.

Resolution

When taking a backup of the cmx_ors database, also take a backup of the MDM_PUBLISH database to transfer. Also add the MDM_PUBLISH datasource in the standalone-full.xml file.

12. Refresh Activity

- For the refresh activity, DXC DEV Databases were copied to COLO DEV Database.
- Then Datasources were deleted from the standalone-full.xml file
- The cmx_ors and other DB users were given ‘DB_owner’ permission on cmx_ors, mdm_land and mdm_publish databases.
- CMX_ORS was re-registered as EMDM_HPE_SIT
- Process servers were updated to point to the correct Process Server
- Workflow Mappings were updated to point to the correct BEActiveVOS
- The cmx_ors repository was validated
- The SIF Objects were recreated
- Elastic search settings were added to the provisioning tool
- Applications were migrated from DXC Production Environment
- Queries were migrated from DXC Production Environment

13. Admin Contacts:

First Name	Last Name	Deloitte ID	Role	Working Hours
Sachin	Jose	savarghese@deloitte.com	Offshore Admin	2PM – 11 PM IST
Gaurav	Kumar	gauravkumar47@deloitte.com	Offshore Admin	2PM – 11 PM IST
Jalal	Chowdhury	jachowdhury@deloitte.com	Onsite Admin	9:30 PM – 5:30 AM IST

Thank You!