# Installation of the Oracle Identity Manger

The installation of the Oracle Identity Manager 11g is quite complex and contains some pitfalls that requires problem analysis and investigations. In this tutorial we will lead through the installation process of all required product components and development tools. We point out necessary troubleshooting steps and include the analysis of some of the problems. We also provide a detailed list of required installation packages and patches. While analysis during this work was rather time consuming, following the documented steps that circumvent the pitfalls can save a lot of time.

Software versions used:

- Oracle Identity and Access Management (11.1.1.5)
- Oracle SOA Suite 11g (11.1.1.6.0)
- Oracle Weblogic Server 10.3.6 Linux 32-bit
- Java SE Development Kit 6 Update 33 (Linux 32-bit)
- Repository Creation Utility 11.1.1.6.0 Linux
- Oracle JDeveloper 11g (11.1.1.6.0) Studio Edition, Linux

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# 2 Introduction

In this tutorial we want to look at the installation of the Oracle Identity Manager, as it can be downloaded from the Oracle Technology Network. The whole process is quite complex since

it includes the installation of at least four separate products, i.e. Java, Weblogic Server, Fusion SOA Suite and the OIM itself. As a prerequisite we need a full installation of an Oracle database, and the express edition is not sufficient. In this work we want to install the product in Virtual Box. As a starting point we use an appliance originating from the Oracle Developer Days 2011, which is also available at the OTN. In this appliance the database is already configured and running. However we have to verify and adjust some system parameters. We use the repository creation utility (RCU) to create the database schemas required for the SOA suite and OIM. The installation of the OIM consists of the following steps:

- Installation of Weblogic Server;
- Installation of the SOA Suite;
- Installation of the OIM software;
- Creating a WLS domain for SOA and OIM
- Configuration of the OIM server.

Additionally we have to install some updates and patches to make the configuration work. In order not to further raise the complexity, we omit the configuration for high availability and SSL, which however is very often a requirement for production environments. We also want to install the OIM Design Console which is needed for development and configuration. The Design Console is only available for Windows and it requires a complete OIM installation. So we will repeat the installation of the listed components on Windows and install and configure the Design Console subsequently. Some OIM features use business processes from the SOA suite which can be developed in JDeveloper. We also make an installation if the IDE and demonstrate how to open an OIM process in the SOA composite editor of JDeveloper. We will include links to the online documentation of Oracle which can be used to look up detailed descriptions of every step. We will also create machine snapshots repeatedly to save the current state of our work. When we run into trouble we can go back to a previous snapshot and try a different approach.

# **3 Preparations for the OIM installation**

Before we dive into the installation we want to take a look at the certification matrix and choice of product versions. After that, we prepare the Linux appliance by extending the disk space and configuring the network.

## **3.1** Certification Matrix and Choice of products

For a choice of products we consult the download page<sup>1</sup> and the certification matrix. First of all, we want to clarify some terms since Oracle's choice of product names is confusing. The following table shows the products include in two different product suites.

Product Suite and	Products included	Certification Matrix File		
Version/Abbreviation				
Identity Management	HTTP Server	fmw-11gr1certmatrix.xls		
(11.1.1.6.0)	• Internet Directory (OID)			
Oracle-IDM	Directory Integration			
	Platform (DIP)			
	• Virtual Directory			

<sup>1</sup> Download Page for Oracle Identity Management: http://www.oracle.com/technetwork/middleware/downloads/oid-11g-161194.html

- Directory Services Manager
- Identity Federation (OIF)
- Security Developer Tools
- Enterprise Manager Fusion Middleware Control
- Middleware Control Access Manager (OAM)
- Adaptive Access Manager (OAAM)

identity-accessmgmt-11gr1certmatrix-161244.xls

Oracle Identity and Access Management (11.1.1.5.0) OIM&OAM

- Identity Manager (OIM)
- Identity Navigator (OIN)
- Oracle Security Token
- Service (OSTS)
- Oracle Entitlements Server (OES)

## Table 1. Product Suites around Oracle Identity Management.

We use the abbreviations Oracle-IDM and OIM&OAM for the product suites. Note that Oracle-IDM is mainly concerned with directory service products.

Since we want to install OIM, we look at the newest downloads available for the OIM&OAM suite (05.08.2012).

Oracle Identity and Access Management (11.1.1.5.0)		Generic : 2 GB
More Info 🖃		
Included:		Required Additional Software:
<ul> <li>Access Manage</li> </ul>	er	WebLogic Server
<ul> <li>Adaptive Acces</li> </ul>	ss Manager	<ul> <li>Repository Creation Utility</li> </ul>
<ul> <li>Identity Manage</li> </ul>	er	Patch Scripts
<ul> <li>Identity Navigat</li> </ul>	itor	Oracle Database
Oracle Security	y Token Service	<ul> <li>BI Publisher</li> </ul>
<ul> <li>Oracle Entitlem</li> </ul>	nents Server	SOA Suite (for Oracle Identity Manager)

Figure 1. Downloads for OIM&OAM 11.1.1.5

Version 11.1.1.5 is the most up-to-date version available. Let's look at the certification Matrix.

The link for "System Requirements and Supported Platforms for Oracle Identity and Access Management "is accessible from

http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html

There are the certification matrix for the releases 11gR1 and 11gR2

- 11gR1 http://www.oracle.com/technetwork/middleware/id-mgmt/identity-accessmgmt-11gr1certmatrix-161244.xls
- 11gR2 http://www.oracle.com/technetwork/middleware/id-mgmt/identity-accessmgmt-11gr2certmatrix-1714221.xls

We save them to D:\15Work\06OracleIdentityManagement

Download of the R2 release is yet not available via OTN (05.08.2012). Let's find a valid configuration for the 11gR1 release from the certification Matrix.

Oi	racle Ider	ntity and	Access Management	11g Re	lease 1	(11.1.1.x)	Certificat	ion I	Matrix	Last updated: May 30, 2012
This document covers products Oracle Access Manager (OAM), Oracle Adaptive Access Manager (OAAM), Oracle Security Token Service (OSTS), Oracle Identity Manager (OIM), Oracle Identity Navigator (OIN), Oracle Entitlements Server (OES) and Oracle Authorization Policy Manager (OAPM). OAM, OAAM, OIM, OIN and OAPM 11gR1 (11.1.1.3.0) are certified with Oracle Weblogic Server 11gR1 (10.3.3). OAM, OAAM, OSTS, OIM, OIN and OES 11gR1 (11.1.1.5.0) are certified with Oracle Weblogic Server 11gR1 (10.3.5). For Client Certification, click here. For Client Certification, click here. For Information on Virtualization Support, refer to http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-09265.html										
				Ser	ver Cer	tification				
Installation Type	Version Supported	Processor Type	OS Version	OS 32/64 bit	Oracle FM 32/64 bit	JDK Vendor Version* 11gR1 (11.1.1.3)	JDK Vendor Version* 11gR1 (11.1.1.5)	JDK 32/64 bit	Oracle Database*	Exceptions and Additional Information
ALL	11gR1 (11.1.1.5+)	x64	Oracle Linux 6 (UL1+)	64	64	n/a	Oracle JDK 1.6.0_30+	64	Oracle 10.2.0.4+ Oracle 11.1.0.7+ Oracle 11.2.0.1+	Support is with UEK: Unbreakable Enterprise Kernel and Red Hat Compatible Kernel.     OSTS is certified starting with 11.1.1.5.     OES is certified starting with 11.1.1.5.
ALL	11gR1 (11.1.1.5+)	x64	Oracle Linux 6 (UL1+)	64	64	n/a	JRockit 6 Update 29 R28.2.0+	64	Oracle 10.2.0.4+ Oracle 11.1.0.7+ Oracle 11.2.0.1+	Support is with UEK: Unbreakable Enterprise Kernel and Red Hat Compatible Kernel.     OSTS is certified starting with 11.1.1.5.     OES is certified starting with 11.1.1.5.

Figure 2. Certification Matrix for the OIM and OAM 11gR1 Release.

The highest certified WLS is 10.3.5. We can choose between Oracle and JRockit JDK, both are in versions Java 1.6.

Initially we wanted to install on Linux 6.3. However this installation failed. Although the certification matrix lists Oracle Linux 6.1+ as certified, the OIM installer fails with an invalid prerequisite check (see 8.1.4). Instead we use an OEL 5.5 Oracle appliance from the developer days, which comes with a preinstalled database.

## **3.2** Oracle Developers Days Appliance

From earlier installations I have two appliances available. (See 7.1.1 and 7.1.2)

07.08.2012	19:29	4.352.576.000 Oracle_Developer_Day.ova
20.04.2012	18:03	4.523.038.208 Oracle_Developer_Days.ova

These appliances are almost identical. Both appliances are delivered with Oracle Linux 5.5 32-bit. Since the older appliance is already installed on my system, we continue with it. It is already updated it to release 5.8. and has the latest guest additions installed. We rename this virtual machine to 12OEL55\_ODD by exporting it to an appliance and importing it again, using the new name.

We check if it is a 32-bit system.

```
[oracle@localhost ~]$ cat /etc/*-release
Enterprise Linux Enterprise Linux Server release 5.8 (Carthage)
Oracle Linux Server release 5.8
Red Hat Enterprise Linux Server release 5.8 (Tikanga)
[oracle@localhost ~]$ cat /proc/version
Linux version 2.6.32-300.21.1.el5uek (mockbuild@ca-build56.us.oracle.com) (gcc version 4.1.2 20080704 (Red
Hat 4.1.2-50)) #1 SMP Wed Apr 18 18:57:56 EDT 2012
[oracle@localhost ~]$ uname -a
Linux localhost.localdomain 2.6.32-300.21.1.el5uek #1 SMP Wed Apr 18 18:57:56 EDT 2012 i686 i686 i386
GNU/Linux
[oracle@localhost ~]$ uname -m
```

This tells us that we are running on a 32-bit Linux kernel. Before proceeding with the installation we need to extend the hard disk space first.

#### 3.2.1 Providing more disk space

We want to use the machine 12OEL55\_ODD for OIM installation. However there is too little disk space. We create a further 100GB HDD and install it in the machine. We use the Virtual Box Manager to create a new virtual hard disk.

12OEL55_ODD - Ändern		_	
<ul> <li>12OEL55_ODD - Ändern</li> <li>Allgemein         <ul> <li>Allgemein</li> <li>System</li> <li>Anzeige</li> <li>Massenspeicher</li> <li>Audio</li> <li>Netzwerk</li> <li>Serielle Schnittstellen</li> <li>Iso</li> </ul> </li> </ul>	Massenspeicher Massenspeicher Massenspeider DE Controller 120EL55_00D-disk1.vmdk 120EL55_00D-disk2.vmdk Coll ler 120EL55_00D-disk3.vdl	Attribute — Festplatte: Informationen — Typ (Format): virtuelle Größe: tatsächliche Größe:	Sekundärer Slave  Sekundärer Slave SSD-Laufwerk normal (VD1) 100,00 GB 404,00 KB
USB Gemeinsame Ordner	Floppy Controller      Be eine Kategorie aus der Liste auf der linken Seite und fahren Sie n	abgespeichert wie: abgespeichert wo: angeschlossen an: <i>angeschlossen an:</i>	dynamisch belegt D:\16VirtualBox\12OEL55_ODD\12OEL55_ODD-disk3.vdi 
			OK Abbrechen Hilfe

Figure 3. Creating a new Hard Disk for the VM 12OEL55\_ODD

We initialize the partition with the "Logical Volume Management". Then we add it to a new volume group "volgrp\_sdc"



Figure 4. Physical view of the newly created volume group volgrp\_sdc.

We create a new logical volume and mount it to /opt/oracle.

	Create No	ew Logic	al Volum	16	×			
LV nam :	lv_sdc							
LV Properties								
Line	ear 🗌 Mi	rrored						
🔿 Strij	oed							
2	stripes	4 🍦	Kilobyte		ity			
Size					=			
Re	emaining fre	e space ir	1 Volume	Group:				
		Olgaby						
LV size	100.0		Gig	abytes	•			
0.0				100	0.0			
Use re	emaining Re	maining s 0.	pace for 0 Gigabyt	this Volum es	ie:			
Filesvst	em							
Ext4					\$			
Mount Mount when rebooted								
Mount point /opt/oracle								
		X	ancel	<i>4</i> 9 <u>о</u> к				

## OIMInstallationTutorial.docx

#### Figure 5. Creating a logical volume on 12OEL55\_ODD.

After that, the space is available in the file system.

[oracle@12oel55 odd opt]\$ df -h									
Filesystem	Size	Used	Avail	Use%	Mounted on				
/dev/sda1	11G	2.9G	6.7G	30%	/				
/dev/sdb1	12G	9.4G	1.7G	86%	/home				
tmpfs	4.0G	284M	3.7G	8%	/dev/shm				
01SharedFolder	346G	262G	85G	76%	/media/sf 01SharedFolder				
/dev/mapper/volgr	p sdc-lv so	lc							
	- 99G	188M	94G	1%	/opt/oracle				
[oracle@12oe155 o	dd optl\$								

We change the owner of this directory to oracle.

```
[oracle@12oel55_odd oracle]$ su
Password:
  [root@12oel55_odd oracle]# chown oracle:oracle /opt/oracle/
  [root@12oel55_odd oracle]# ls -la /opt/oracle/
  total 28
  drwxr-xr-x 3 oracle oracle 4096 Aug 10 18:57 .
  drwxr-xr-x 7 root root 4096 Aug 10 18:57 ...
  drwx----- 2 root root 16384 Aug 10 18:57 lost+found
  [root@12oel55_odd oracle]#
```

We also check if this machine can handle 8 GB of RAM since we want to run OIM and the database together on this system. The discussion in the web<sup>2</sup> claims it depends on the PAE support in the kernel and CPU.

[oracle@12oel5	55_odd ~]\$ ca <sup>.</sup>	c /proc/meminfo
MemTotal:	8266620 ki	<mark>3</mark>
MemFree:	7009192 ki	3
Buffers:	35300 ki	3
Cached:	877088 ki	3

Ok.

#### 3.2.2 Network setup

We set up the network as depicted in the following figure.

<sup>&</sup>lt;sup>2</sup> <u>http://www.linuxquestions.org/questions/red-hat-31/memory-limit-for-32-bit-redhat-as-4-server-764162/</u>



Figure 6. Network Configuration for the machine 12OEL55\_ODD.

We use the NAT address for internet access from the virtual machine. We connect a second network interface to the vboxnet, which is a "host-only" configuration. If we move the host machine Scorpio, which is a windows laptop, to another network, the IP-addresses in the vboxnet will not change.

Additionally we configure a "bridged" network interface temporarily, only to test the access to servers running on 12OEL55\_ODD from within the fritz.box network. We will disable it later.

## 3.2.3 Changing network routes

In some situations we encountered, that the connection to the internet fails, due to routing errors. If this happens we check the routing table first.

[oracle@12oel5	5_odd ~]\$ nets	<mark>tat -rn</mark>						
Kernel IP routing table								
Destination	Gateway	Genmask	Flags	MSS Window	irtt Iface			
10.0.2.0	0.0.0.0	255.255.255.0	U	0 0	0 eth0			
192.168.56.0	0.0.0.0	255.255.255.0	U	0 0	0 eth1			
169.254.0.0	0.0.0.0	255.255.0.0	U	0 0	0 eth1			
	192 168 56 1		UC		0 eth1			

As we can see in the last line, that the default gateway is the router of the host-only network (i.e. the vbox software router). This will not give us any internet connections. Instead the table should look like this.

[root@12oe155	odd network-s	scripts]# netstat -rr	1		
Kernel IP rout	ing table				
Destination	Gateway	Genmask	Flags	MSS Window	irtt Iface
10.0.2.0	0.0.0.0	255.255.255.0	U	0 0	0 eth0
192.168.56.0	0.0.0.0	255.255.255.0	U	0 0	0 eth1
169.254.0.0	0.0.0.0	255.255.0.0	U	0 0	0 eth1

#### 0.0.0.0 10.0.2.2 0.0.0.0

Here the default gateway is connected to the NAT-router of virtual box which connects to the internet via the host computer.

We achieve this configuration by switching to the root user and changing two network configuration files in the directory /etc/sysconfig/network-scripts In ifcfg-eth0, we add the gateway by adding the line in green.

```
[oracle@12oel55_odd network-scripts]$ cat ifcfg-eth0
# Advanced Micro Devices [AMD] 79c970 [PCnet32 LANCE]
DEVICE=eth0
BOOTPROTO=dhcp
ONBOOT=yes
HWADDR=08:00:27:73:47:b1
TYPE=Ethernet
GATEWAY=10.0.2.2
```

In ifcfg-eth1 we remove the line with the gateway.

```
[oracle@12oel55_odd network-scripts]$ cat ifcfg-eth1
# Advanced Micro Devices [AMD] 79c970 [PCnet32 LANCE]
DEVICE=eth1
BOOTFROTO=none
ONBOOT=yes
HWADDR=08:00:27:84:87:d5
NETMASK=255.255.0
IPADDR=192.168.56.1
#GATEWAY=192.168.56.1
TYPE=Ethernet
USERCTL=no
IPV6INT=no
PEERDNS=yes
```

Now we have to restart the network and internet connection should work again.



Ok.

# 4 Installation of Oracle Identity Manager 11.1.1.5.0

We follow the instructions of the Quick install guide <a href="http://docs.oracle.com/cd/E23943\_01/install.1111/e10033/configtwo.htm#CEGFJHDF">http://docs.oracle.com/cd/E23943\_01/install.1111/e10033/configtwo.htm#CEGFJHDF</a>.

The documentation home for Oracle Identity and Access Management (11.1.1.6) can be found here: <u>http://docs.oracle.com/cd/E23943\_01/im.htm</u>.

Since the Oracle XE database cannot be used for the OIM installation we use a database from an Oracle appliance. This machine is only 32-bit. So we continue the installation on 110RA63 and only use this appliance as database machine.

#### 4.1 Using the Repository Creation Utility 11.1.1.6

Initially we started out to run the RCU on the machine 11OEL63 (Oracle Linux 6.3 64-bit) While it was successful for some required schemas, it failed for all OIM schemas. We continue the RCU configurations on machine 12OEL55\_ODD. In both situation we used the distribution from 7.1.9.

#### 4.1.1 Checking the database

The document

http://docs.oracle.com/html/E18558\_01/fusion\_requirements.htm#CHDGICGE lists the preconditions for the database. We check our database which is running on the machine 12OEL55\_ODD.

[oracle@localhost ~]\$ <mark>sqlplus</mark>			
SQL*Plus: Release 11.2.0.2.0 Product	ion on Tue A	ug 7 10:49:22 2012	
Copyright (c) 1982, 2010, Oracle. A	ll rights re	served.	
Enter user-name: <mark>sys as sysdba</mark> Enter password:			
Connected to:			
Oracle Database 11g Enterprise Editi. With the Partitioning, OLAP, Data Mi	<mark>on Release 1</mark> ning and Rea	<pre>1.2.0.2.0 - Production 1 Application Testing options</pre>	
SQL> select * from nls_database_para where parameter='NLS_CHARACTERSET'; 2	meters		
AL32UTF8			
SQL> <pre>show parameter shared_pool_size</pre>	<mark>;</mark>		
NAME	TYPE	VALUE	
shared_pool_size	big integer	0	
SQL> alter system set shared pool si	ze=147456K;		
System altered.			
SQL> <pre>show parameter SGA_MAX_SIZE;</pre>			
NAME	TYPE	VALUE	
<pre>sga_max_size SQL&gt; show parameter DB_BLOCK_SIZE;</pre>	big integer	4 <u>36M</u>	
NAME	TYPE	VALUE	
<mark>db block size</mark> SQL> <mark>show parameter open cursors;</mark>	integer	8192	
NAME	TYPE	VALUE	
open_cursors SQL> alter system set open_cursors=1	integer <mark>000;</mark>	300	
System altered.			
SQL> commit;			
Commit complete.			
SQL> select * from all registry bann	ers;		
BANNER			
Oracle Database Catalog Views Releas Oracle Database Packages and Types R Oracle Workspace Manager Release 11.	e 11.2.0.2.0 elease 11.2. 2.0.2.0 - De	- Production 0.2.0 - Development velopment	
JServer JAVA Virtual Machine Release Oracle XDK Release 11.2.0.2.0 - Deve	11.2.0.2.0 lopment	- Development	
Oracle Database Java Packages Release 11.2.0.2.0 - Development Oracle Expression Filter Release 11.2.0.2.0 - Development Oracle Text Release 11.2.0.2.0 - Development Oracle XML Database Release 11.2.0.2.0 - Development Oracle Rules Manager Release 11.2.0.2.0 - Development Oracle Multimedia Release 11.2.0.2.0 - Development			
BANNER			
OLAP Analytic Workspace Release 11.2.0.2.0 - Development Oracle OLAP API Release 11.2.0.2.0 - Development OLAP Catalog Release 11.2.0.2.0 - Development Spatial Release 11.2.0.2.0 - Development Oracle Enterprise Manager Release 11.2.0.2.0 - Development			
owb werease in.2.0.1.0 - Deveropment			

Oracle Application Express Release 4.1.0.00.32 - Development 18 rows selected.

We restart the database for the changes to take effect. (It's not clear if it is necessary).

```
SQL> shutdown
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL> startup
ORACLE instance started.
Total System Global Area 456146944 bytes
Fixed Size 1344840 bytes
Variable Size 356518584 bytes
Database Buffers 92274688 bytes
Redo Buffers 6008832 bytes
Database mounted.
Database opened.
SQL>
```

Ok.

## 4.1.2 Running the RCU from 11OEL63

We follow the instructions at: Creating Database Schema Using the Oracle Fusion Middleware Repository Creation Utility (RCU)

http://docs.oracle.com/cd/E23943\_01/install.1111/e10033/before.htm#BABDJHDE)

This is the first part of the RCU installation which we run on the Linux 6.3-64bit machine using the

We install the RCU and start it.

```
[oracle@11oe163 bin]$ pwd
/home/oracle/Downloads/rcu 11.1.1.6/rcuHome/bin
[oracle@11oe163 bin]$
[oracle@11oe163 bin]$ RCU_JDBC_TRIM_BLOCKS=TRUE
[oracle@11oe163 bin]$ echo $RCU_JDBC_TRIM_BLOCKS
TRUE
[oracle@11oe163 bin]$ linux32=bash
[oracle@11oe163 bin]$ echo $linux32
bash
[oracle@11oe163 bin]$ ./rcu
```

The GUI of the RCU starts up.

We run the RCU against the Database from the "12OEL55\_ODD" appliance.

Repository	Creation Utility	- Step 2 of 7 : Database Connection Details - • ×	Select Components	tory Creation Utility - Step 3 of 7 : Select Comp	ORACLE DI X
Veicome Create Repository Database Connection Details Select Components Select Razswords Map Tablespaces Summ ary Completion Summary	Dutabase Type Hosi Name: Part: Service Name Usernane: Bols: Messages:	Oracle Database       192.165.96.109       For RAC database, specify VP name or one of the Node name as Host name.       For SCAN enable AC database, specify SCAN host as Host name.       192.105.07       ORCL       192.105.07       User with DEA or SYSDBA privileges. Example sys       ••••••••••••••••••••••••••••••••••••	Vercome Create Repository Palabase Connection Details Schema Pharwords Map Tablespaces Summary Completion Summary	A Prefix groups the components associated with one deployment Select an existing Perfix © Create a new Prefix © Create a new Prefix © Component © Tracte AS Repository Components © Component © Tracte AS Repository Components © Component © Tracte Associated Service Data Services For DE Data Services For DE © Tracte Inform Security Services © Tracte Reforment Directory © Tracte Adaptive Access Manager © Tracte Adaptive Access Manage	t. as-numeric characters. Prefix should not ould not contain any special characters. Schema Owner DEV. MOS MAU MAUDOS ESS OPSS ODS ODF DEV. 0IM OAAM OAAM OAAM OAAM OAAM OAAM OAAM Characters V
Help		< <u>Back</u> <u>Next&gt;</u> Einish Cancel	Help	< <u>8</u> ac	ck Next > Einish Cancel

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#### OIMInstallationTutorial.docx



Only a part of the schemas are created. The following section contains some analysis information. We continue the schema creation on the machine 12OEL55\_ODD.

#### Troubleshooting

Error message in file: /home/oracle/Downloads/rcu\_11.1.1.6/rcuHome/rcu/log/logdir.2012-08-07\_20-50/rcu.log



A google search suggests:

- Run from a 32-bit windows
- Run as administrator on Windows.

We don't want to install it on Windows; instead we run it from the same machine where the database is located, i.e. 12OEL\_ODD, which is a 32-bit Linux.

#### 4.1.3 Running the RCU from the "12OEL55\_ODD" VM

This is the second part of the RCU installation which we run on the Linux 5.8-32bit machine. We install the RCU on the "12OEL55\_ODD" appliance and run it. Eventually we succeed in creating the schemas for OIM.



Figure 7. Successful creation of the OIM schema on the "Oracle Developer Days" VM.

The following shell output shows the start of the RCU and successful termination.



```
Aug 7, 2012 1:04:32 PM org.quartz.core.QuartzScheduler shutdown
INFO: Scheduler OIMQuartzScheduler_$_NON_CLUSTERED shutdown complete.
[EL Info]: 2012-08-07 13:04:39.125--ServerSession(9723181)--EclipseLink, version: Eclipse Persistence
Services - 1.1.0.r3634
[EL Info]: 2012-08-07 13:04:39.944--ServerSession(9723181)--
file:/home/oracle/Download/rcu11.1.1.6/rcuHome/rcu/integration/oim/iam_rcu_comp/ext/jps-internal.jar-
JpsDEDataManager login successful
[oracle@localhost bin]$
```

Ok.

We continue with the installation of the OIM components.

## 4.2 Installation of Weblogic Server

We download Weblogic server from the SOA Suite download site. See download at 7.1.3. The Sun JDK and JRockit JDKs are bundled with this distribution. We start the installation program and choose the proposed default configurations.

```
[oracle@12oel55_odd sf_01SharedFolder]$ pwd
/media/sf_01SharedFolder
[oracle@12oel55_odd sf_01SharedFolder]$ ./wls1036_linux32.bin
```

This will create the following installations:

```
[oracle@12oe155_odd Middleware01]$ 11
total 176
drwxr-x--- 6 oracle oracle
                                    4096 Aug 10 19:42 coherence 3.7
-rw-rw---- 1 oracle oracle
                                      397 Aug 10 19:42 domain-registry.xml
drwxr-x--- 8 oracle oracle
                                   4096 Aug 10 19:41 jdk160 29
drwxr-x--- 7 oracle oracle 4096 Aug 10 19:41 1000
drwxr-x--- 2 oracle oracle 32768 Aug 10 19:41 modules
drwxr-x--- 7 oracle oracle 623 Aug 10 19:41 ocm.rsp
drwxr-x--- 7 oracle oracle
                                   4096 Aug 10 19:41 jrockit 160 29 D1.2.0-10
-rw-r---- 1 oracle oracle 109300 Aug 10 19:41 registry.dat
-rw-r---- 1 oracle oracle
                                   2644 Aug 10 19:41 registry.xml
drwxr-x--- 8 oracle oracle 4096 Aug 10 19:41 utils
drwxr-x--- 9 oracle oracle 4096 Aug 10 19:41 wlserver_10.3
[oracle@12oe155_odd Middleware01]$
```

## 4.3 Sicherungspunkt 1

We create a snapshot of the virtual machine with following notes.

- Update to OEL 5.8
- Update to VBoxGuestAdditions-4.1.16
- 100GB disk mounted to /opt/oracle
- Running rcu11.1.1.6 against DB for OIM installation.
- Installation of WLS 10.3.6 for 32-bit Linux

#### 4.4 Installation of Java 1.6 Update 33

The minimum requirement for the OIM installation is JDK 1.6 Update 30, however the JDK that was installed together with WLS is Java 1.6 Update 29. We thus have to install another Java (see 7.1.4).

```
[oracle@12oel55_odd java]$ pwd
/opt/oracle/java
[oracle@12oel55_odd java]$ /media/sf_01SharedFolder/jdk-6u33-linux-i586.bin
...
[oracle@12oel55_odd java]$ ls
jdk1.6.0_33
```

## 4.5 Installing the SOA Suite

We use the generic installers of the SOA Suite (see 7.1.5). We unpack the distribution to the download directory on the VM.

```
[oracle@12oel55 odd soa 11.1.1.6]$ pwd
/opt/oracle/Download/soa_11.1.1.6
[oracle@12oel55_odd soa_11.1.1.6]$ ls
Disk1 Disk2 Disk3 Disk4 Disk5 readme.htm
[oracle@12oel55_odd soa_11.1.1.6]$
```

We start the SOA installer.

```
[oracle@12oel55_odd Disk1]$ pwd
/opt/oracle/Download/soa_11.1.1.6/Disk1
[oracle@12oel55 odd Disk1]$ ./runInstaller
Starting Oracle Universal Installer...
Checking if CPU speed is above 300 MHz. Actual 2372 MHz Passed
Checking Temp space: must be greater than 150 MB. Actual 6810 MB Passed
Checking swap space: must be greater than 512 MB. Actual 1694 MB Passed
Checking monitor: must be configured to display at least 256 colors. Actual 16777216 Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2012-08-11_01-58-13PM. Please wait ...
Please specify JRE/JDK location ( Ex. /home/jre ), <location>/bin/java should exist
:/opt/oracle/java/jdk1.6.0_33
[oracle@12oel55_odd Disk1]$ Log: /home/oracle/app/oraInventory/logs/install2012-08-11_01-58-13PM.log
```

The installation process passes error free. We save the response and summary file:

```
[oracle@12oel55 odd oracle]$ ll /opt/oracle/
total 36
drwxrwxr-x 4 oracle oracle 4096 Aug 11 13:35 Download

-rw-r---- 1 oracle oracle 1291 Aug 11 14:00 FMW SOA 11.1.1.6 response.txt

-rw-r---- 1 oracle oracle 460 Aug 11 14:07 FMW SOA 11.1.1.6 summary.txt

drwxrwxr-x 3 oracle oracle 4096 Aug 11 13:54 java

drwx----- 2 root root 16384 Aug 10 18:57 lost+found

drwxr-x-- 11 oracle oracle 4096 Aug 11 14:01 Middleware01
 [oracle@12oel55 odd oracle]$ cat FMW SOA 11.1.1.6 summary.txt
Install Oracle SOA Suite
            Directory Details
                         Middleware Home Location: /opt/oracle/Middleware01
                         Oracle Home Location: /opt/oracle/MiddlewareO1/Oracle_SOA1
                         Application Server Type: WebLogic Server
                         Application Server Location: /opt/oracle/Middleware01
            Disk Space
                         Oracle Home Size: 1642 MB
                        Available: 86304 MB
            Applications
                         Oracle BPEL PM, Mediator, Rules, B2B, Human Workflow
Oracle Business Activity Monitoring (BAM)
                        Oracle Enterprise Manager
```

#### 4.6 Installing OIM

Now we are ready to install the OIM. We copy the distribution (see 7.1.6) into the download directory.

```
[oracle@12oel55_odd oracle]$ ls -1 /opt/oracle/Download/iam_11.1.1.5/
total 16
drwxr-xr-x 5 oracle oracle 4096 May 5 2011 Disk1
drwxrwxr-x 3 oracle oracle 4096 May 5 2011 Disk2
drwxrwxr-x 3 oracle oracle 4096 May 5 2011 Disk3
drwxrwxr-x 3 oracle oracle 4096 May 5 2011 Disk4
```

We start the installer.

```
[oracle@12oel55_odd Disk1]$ ./runInstaller -jreLoc /opt/oracle/java/jdk1.6.0_33/jre
Starting Oracle Universal Installer...
Checking if CPU speed is above 300 MHz. Actual 2372 MHz Passed
Checking Temp space: must be greater than 150 MB. Actual 6810 MB Passed
Checking swap space: must be greater than 512 MB. Actual 1694 MB Passed
Checking monitor: must be configured to display at least 256 colors. Actual 16777216 Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2012-08-11_02-34-22PM. Please wait
...[oracle@12oel55_odd Disk1]$ Log: /home/oracle/app/oraInventory/logs/install2012-08-11_02-34-22PM.log
```

The installer runs without errors.

We save the response and summary file.

```
[oracle@12oel55_odd oracle]$ cat /opt/oracle/FMW_SOA_11.1.1.6_summary.txt
Install Oracle SOA Suite
Directory Details
Middleware Home Location: /opt/oracle/Middleware01
Oracle Home Location: /opt/oracle/Middleware01/Oracle_SOA1
Application Server Type: WebLogic Server
Application Server Location: /opt/oracle/Middleware01
Disk Space
Oracle Home Size: 1642 MB
Available: 86304 MB
Applications
Oracle BPEL PM, Mediator, Rules, B2B, Human Workflow
Oracle Business Activity Monitoring (BAM)
Oracle Enterprise Manager
```

We make another machine snapshot.

## 4.7 Sicherungspunkt 2

Installation of:

-JDK 1.6 Update 33 -FMW\_SOA\_11.1.1.6 -FMW\_IAM\_11.1.1.5

## 4.8 Creating a new Weblogic Domain for OIM and SOA

The prerequisites for configuring the OIM are listed here (<u>http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/oidonly.htm#INOIM1210</u>) and state that we need to create a WLS domain first (point 6). To create the domain we follow the instructions at <u>http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/oidonly.htm#CDDFJBCC</u> (16.3.4 Procedure).

We start the configuration wizard in the IDM-Home:

```
[oracle@12oe155_odd bin]$ pwd
/opt/oracle/Middleware01/Oracle_IDM1/common/bin
[oracle@12oe155_odd bin]$ ./config.sh
```

#### We provide the screens of the configuration:

Fusion Middleware Configuration Wizar	<u> </u>	
Welcome	ORACLE	Select Domain Source
Create a new WebLogic domain Create a WebLogic domain in your projects directory.     Cextend an existing WebLogic domain Use this option to add new components to an existing domain and modifi	r configuration settings.	Cenerate a domain configured automatically to support the following products:     Data: Wetalage: Enver Domain - 10.26.0 [withows:10.3]     Oracle Hemist Manager - 11.1.3.0 [Oracle.JOM1]     Oracle Hemist Manager - 11.1.1.3.0 [Oracle.JOM1]     Oracle Hemist Manager - 11.1.1.0 [Oracle.JOM1]     Oracle Adaptive Access Manager - Office - 11.1.1.0 [Oracle.JOM1]     Oracle Adaptive Access Manager - Server - 11.1.1.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.1.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.1.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.1.3 [Oracle.JOM1]     Oracle Hemister Server - 11.1.1.0 [Oracle.JOM1]     Oracle Hemister Server - 11.1.1.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.3.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.3.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.3.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.3.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.3.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.3.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.3.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.3.3 [Oracle.JOM1]     Oracle Adaptive Access Manager - Manager - Server - 11.1.3.3 [Oracle.JOM1]     Terrel Server Server - Manager - Server - 11.1.3.3 [Oracle.JOM3]     Terrel Server Server - Manager - Manager - Server - 11.1.3.3 [Oracle.JOM3]     Server Manager - Manager - Manager - Server - 11.1.3.3 [Oracle.JOM3]
Egit Help	Previous Next	Previous Next

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# http://weblogic-corner.blogspot.com OIMInstallationTutorial.docx

Fusion Middleware Configuration Wizard		6	Fusion Middleware Configuration Wizard	_ X
Specify Domain Name and Location	ORACLE <sup>.</sup>	Configure Administrator Us	er Name and Password	ORACLE'
3				
3		C Discard Changes		
		*Name: we	blogic	
Enter the name and location for the domain and its applications	5:	*User password: *** *Confirm user password: ***	******	
		Description: Ad	min User=weblogic Password=welcome1	
Domain name bace domain				
Domain location:         /opt/oracle/Middleware01/user_projects/domains         B	rowse			
Application location: /opt/oracle/Middleware01/user_projects/applications B	rowse			
8				
s Exit Help	Previous Next	E <u>x</u> it <u>H</u> elp		Previous Next
Fusion Middleware Configuration Wizard	E.	×	Fusion Middleware Configuration Wizard	
Configure Server Start Mode and JDK	ORACLE'	Configure JDBC Compone	ent Schema	ORACLE
1		_		
Before putting your domain into production, make sure that the production environment is secure. For mor 'Securing a Production Environment' in the WebLogic Server documentation.	re information, see the topic	Note: Change only the input fie	lds below that you wish to modify and values will be applied to all selec	ted rows.
WebLogic Domain Startup Mode JDK Selection		Vendor: Oracle	DBMS/Service:	orcl
		Driver: *Oracle's Dr Schema Owner: Varies amon	g component schemas Port:	12oel55_odd.vboxnet
O Development Mode Utilize boot.properties for username O Available JDKs		Schema Password: Enter a value	· · · · · · · · · · · · · · · · · · ·	
and password and poll for applications to deploy. Sun IDK recommended for better startup IDK DK 1.6.0_29 @ /opt/oracle/Midd	Aiddleware01/jrc dleware01/jdk16	RAC configuration for componer	nt schemas:	
performance during iterative development.		() Convert to	Gradunk Convert to RAC multi data source C Don't conv	ci (
		Component Schema	DBMS/Service Host Name Port Sch     orcl 120el55_odd.vboxt 1521 DEV_3	ema Owner Schema Password
Production Mode     Require the entry of a username and	4	User Messaging Service	orci 120el55_odd.vboxt 1521 DEV_t	DRASDPM
password and do not poll for applications to deploy. While one like of the second manufactor		OWSM MDS Schema	orci 120e155_odd.vboxt 1521 DEV_1	MDS
better runtime performance and management.	0_33 <u>Browse</u>	✓ SOA MDS Schema ✓ OIM Schema	orcl 120el55_odd.vboxt 1521 DEV_t orcl 120el55_odd.vboxt 1521 DEV_t	MDS MIN
Egit Help	Previous Next	E <u>x</u> it <u>H</u> elp		Previous <u>N</u> ext
The wizard performs a jdbc schema	test with th	he following 1	result.	
URL=jdbc:oracle:thin:@12oel55 odd.vboxnet: User=DEV_SOAINFRA Password=******* SQL Test=select 1 from schema_version_regi and version='11.1.1.6.0'	:1521/orcl	owner=(select us	ser from dual) and mr_type=	-'SOAINFRA'
CFGFWK-20850: Test Successful!				
Component Schema=User Messaging Service				
Driver=oracle.jdbc.OracleDriver				
URL=jdbc:oracle:thin:@12oel55_odd.vboxnet:	:1521/orcl			
Password=*****				
SQL Test=select 1 from schema_version_regi	istry where o	owner=(select us	ser from dual) and mr_type=	-'ORASDPM'
and version='11.1.1.6.0'				
CFGFWK-20850: Test Successful!				
Component Schema=OIM MDS Schema				
URL=jdbc:oracle:thin:@12oe155 odd.vboxnet:	:1521/orcl			
User=DEV_MDS				
Password=*******	stru whore	ownor-(coloct us	or from dual) and mr turo-	-'MDG! and
version>='11.1.1.2.0'	iscry where (	Owner-(Serect us	set from duar) and mr_cype-	- MDS and
CFGFWK-20850: Test Successful!				
Component Schema=OWSM MDS Schema Driver=oracle.jdbc.OracleDriver URL=jdbc:oracle:thin:@12oe155_odd.vboxnet: User=DEV MDS	:1521/orcl			
Password=******				
SQL Test=select 1 from schema_version_regi owner=(s dual) an version=	stry where elect user f d mr_type='N '11.1.1.6.0'	from MDS' and '		
CFGFWK-20850: Test Successful!				
Component Scheme=SOA MDS Scheme				
Driver=oracle.jdbc.OracleDriver URL=jdbc:oracle:thin:0120e155_odd.vboxnet: User=DEV_MDS	:1521/orcl			

Password=******* SQL Test=select 1 from schema_version_registry where owner=(select user from dual) and mr_type='MDS' and version='11.1.1.6.0'
CFGFWK-20850: Test Successful!
Component Schema=OIM Schema Driver=oracle.jdbc.OracleDriver URL=jdbc:oracle:thin:@12oe155_odd.vboxnet:1521/orcl User=DEV OIM Password=******* SQL Test=select 1 from schema_version_registry where owner=(select user from dual) and mr_type='OIM' and version='11.1.1.5.0'
CFGFWK-20850: Test Successful!

## We continue with the dialog.

a Pasion Piladi		Pusion Middleware Configuration Wizard
Test JDBC Component Schema	ORACLE	Select Optional Configuration
Status         Component Schema         jdccora           V         Sch Infrastructure         jdccora           V         User Messaging Service         jdbcora           V         OM MOS Schema         jdbcora           V         OIM Schema         jdbcora           Select All         Unselect All         Test Connections           Connection Result Log         Driverenzale jbbc OracleDriver         User updcoracletion #226/Driver	JDPC Connection URL clethin@12celf5_ddvboxnet1521/orcl clethin@12celf5_ddvboxnet1521/orcl clethin@12celf5_ddvboxnet1521/orcl clethin@12celf5_ddvboxnet1521/orcl clethin@20celf5_ddvboxnet1521/orcl clethin@20celf5_ddvboxnet1521/orcl clethin@12celf5_ddvboxnet1521/orcl	Administration Server Modely Servings JMS Distributed Destination Select JMS Distributed Destination Type Managed Servers, Clusters and Machines Add or Delete Modely Servings Deployments and Services Target 0 Services or ClustersMSS File Store Modely Settings
User=ub2_UM Password= SQLTest=select 1 from schema_version_registry when CFGFWK-20850: Test Successful!	re owner—(stlect user from dua) and mr_type="OIM" and version="11.1.5.0	ROBBMS Security Store Modely Settings
Exit Help Fusion Mide	Previous Next	Egit Help Previous           Egit Help         Previous           Fusion Middleware Configuration Wizard
Configuration Summary	ORACLE	
Domain Summary           Summary View           Deployment           base_domain (Org/roale/Middlewar01/user =           General Surver           Server           AdminServer           Shartup Class           DDGC Data Source           DOC Data Source           Module-MMOPW           Doc Dotas           Module-MMOPW           Polycoments           Application           FMW Welcome Rage Applicative with with wide           writ-wide           writ-wide	Cicko an an tem in the Domain Summary proven the left to logget its antichate? In the Suits park balance. You can shall instruct a diginitient's by cickong Periodus to return to a prior panel. If everything is satisfactory, cick Create. Description Create basic WebLogic Server Domain Martino Le Suit WebLogic Server Domain without installing same Description Create basic WebLogic Server domain without installing same Description Oracle Identity Manager Suite Extension Template Author Oracle Softwice Extension Template Author Oracle Softwice Extension Template Author Oracle Softwice Extension Template Author Oracle Softwice Softwice Softwice Soft / Common/templates Name Oracle BPM Suite (MS Resources	Progress:           Image: Ima

This concludes the successful configuration of the WLS Domain.

## 4.9 Starting the Admin Server

As a prerequisite for the OIM configuration we need to start the Admin Server as described in (<u>http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/start\_stop.htm#CHDBGEGA</u>).

```
[oracle@12oel55_odd base_domain]$ pwd
/opt/oracle/Middleware01/user projects/domains/base domain
[oracle@12oel55_odd base_domain]$ ./startWebLogic.sh
```

We are prompted for username and password. (weblogic/welcome1)

#### 4.10 Sicherungspunkt 3

We make another machine snapshot with the notes:

OIMInstallationTutorial.docx

- Creating Domains for OIM and SOA;
- Admin Server started.

## 4.11 OIM Configuration

The configuration of the OIM consists of three parts.

- Configuration of the Server
- Configuration of the OIM Design Console
- Configuration of the OIM Remote Manager (optional)

During the configuration process of the OIM server we ran into sever problems which could not be resolved without a patch for OIM. The analysis is contained in 8.1.5.

Therefor we have to patch the installation first and start the configuration subsequently.

## 4.11.1 Applying OIM Patch 13399365

There is a patch for the OIM with the patch id 13399365 (see 7.1.7 for further information and download link), which upgrades OIM from version 11.1.1.5.0 to 11.1.1.5.2.

The patch can only be obtained via Oracle support at https://support.oracle.com .

There is a readme contained in the zip distribution of the patch. We extract the readme file to <u>file:///D:/15Work/06OracleIdentityManagement/p13399365/README.html</u> and follow it. The deployment of the patch is divided into two parts. The first part is called OPatch stage and patches the OIM software distribution. The second part is called patch\_weblogic stage and patches the configured WLS domain. Since the WLS domain is not configured for OIM yet we run the patch\_weblogic stage after the OIM configuration. This means that we will conduct the following activities.

- Deploying OPatch stage;
- Configuring OIM;
- Deploying patch\_weblogic stage.

But before we start we want to introduce some configurations that will make the working environment more comfortable.

We edit the .bashrc to include some alias definitions for fast navigation.

```
alias mh='cd /opt/oracle/Middleware01'
alias dh='cd /opt/oracle/Middleware01/user_projects/domains/base_domain'
alias nh='cd /opt/oracle/Middleware01/wlserver_10.3/common/nodemanager'
alias ns='cd /opt/oracle/Middleware01/wlserver_10.3/server/bin'
```

We include a boot.properties file for the Admin server to prevent the user and password prompt.

```
[oracle@12oel55_odd base_domain]$ pwd
/opt/oracle/Middleware01/user_projects/domains/base_domain
[oracle@12oel55_odd base_domain]$ mkdir ./servers/AdminServer/security
[oracle@12oel55_odd base_domain]$ echo "username=weblogic" > ./servers/AdminServer/security/boot.properties
[oracle@12oel55_odd base_domain]$ echo "password=welcomel" >>
./servers/AdminServer/security/boot.properties
```

## 4.11.2 OIM Patch 13399365 (OPatch Stage)

We check the currently installed OPatch version:

```
[oracle@12oel55_odd Middleware01]$ find . -name OPatch
./Oracle_IDM1/inventory/Templates/OPatch
./Oracle IDM1/OPatch
```

./Oracle SOA1/inventory/Templates/OPatch ./Oracle\_SOA1/OPatch ./oracle\_common/inventory/Templates/OPatch /oracle common/OPatch [oracle@12oel55\_odd Middleware01]\$ cd ./Oracle\_IDM1/OPatch [oracle@12oel55\_odd OPatch]\$ ./opatch version Invoking OPatch 11.1.0.8.3 OPatch Version: 11.1.0.8.3 OPatch succeeded. [oracle@12oe155\_odd OPatch]\$ ORACLE\_HOME=/opt/oracle/Middleware01/Oracle\_IDM1 [oracle@12oe155\_odd OPatch]\$ ./opatch lsinventory Invoking OPatch 11.1.0.8.3 Oracle Interim Patch Installer version 11.1.0.8.3 Copyright (c) 2010, Oracle Corporation. All rights reserved. : /opt/oracle/Middleware01/Oracle IDM1 Oracle Home Central Inventory : /home/oracle/app/oraInventory : /etc/oraInst.loc : 11.1.0.8.3 from OPatch version OUI version : 11.1.0.9.0 OUI location : /opt/oracle/Middleware01/Oracle\_IDM1/oui Log file location : /opt/oracle/Middleware01/Oracle\_IDM1/cfgtoollogs/opatch/opatch2012-08-22\_13-59-22PM.log Patch history file: /opt/oracle/Middleware01/Oracle IDM1/cfgtoollogs/opatch/opatch history.txt OPatch detects the Middleware Home as "/opt/oracle/Middleware01" Lsinventory Output file location : /opt/oracle/Middleware01/Oracle\_IDM1/cfgtoollogs/opatch/lsinv/lsinventory2012-08-22\_13-59-22PM.txt Installed Top-level Products (1): Oracle IDM Suite 11.1.1.5.0 There are 1 products installed in this Oracle Home. There are no Interim patches installed in this Oracle Home. OPatch succeeded.

The OPatch version is ok.

We proceed with the installation of the patch.

We extract the patch to the Patch\_Top directory at /opt/oracle/Download/13399365. We set the PATH variable to include opatch and check the path for unzip.

```
[oracle@12oel55 odd Middleware01]$ PATH=/opt/oracle/Middleware01/Oracle IDM1/OPatch:$PATH
[oracle@12oel55_odd Middleware01]$ which opatch
/opt/oracle/Middleware01/Oracle_IDM1/OPatch/opatch
[oracle@12oel55_odd Middleware01]$ which unzip
/usr/bin/unzip
```

We set the ORACLE\_HOME and apply the patch.

```
[oracle@12oel55_odd 13399365]$ pwd
/opt/oracle/Download/13399365]$ ORACLE HOME=/opt/oracle/Middleware01/Oracle IDM1
[oracle@12oel55_odd 13399365]$ opatch apply
Invoking OPatch 11.1.0.8.3
Oracle Interim Patch Installer version 11.1.0.8.3
Copyright (c) 2010, Oracle Corporation. All rights reserved.
Oracle Home : /opt/oracle/Middleware01/Oracle_IDM1
Central Inventory : /home/oracle/app/oraInventory
from : /etc/oraInst.loc
OPatch version : 11.1.0.8.3
OUI version : 11.1.0.8.3
OUI location : /opt/oracle/Middleware01/Oracle_IDM1/oui
Log file location : /opt/oracle/Middleware01/Oracle_IDM1/cfgtoollogs/opatch/opatch2012-08-22_14-11-12PM.log
Patch history file: /opt/oracle/Middleware01/Oracle_IDM1/cfgtoollogs/opatch/opatch_history.txt
OPatch detects the Middleware Home as "/opt/oracle/Middleware01"
```

ApplySession applying interim patch '13399365' to OH '/opt/oracle/MiddlewareO1/Oracle\_IDM1' Running prerequisite checks... OPatch detected non-cluster Oracle Home from the inventory and will patch the local system only. Please shutdown Oracle instances running out of this ORACLE HOME on the local system. (Oracle Home = '/opt/oracle/Middleware01/Oracle IDM1') Is the local system ready for patching? [y|n] User Responded with: Y Backing up files and inventory (not for auto-rollback) for the Oracle Home Backing up files affected by the patch '13399365' for restore. This might take a while... Backing up files affected by the patch '13399365' for rollback. This might take a while... Patching component oracle.oim.server, 11.1.1.5.0... Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/platform/iam-platform-entitymgr.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/platform/iam-platform-configmbeans.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/platform/iam-platform-workflowservice.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/platform/iam-platform-auth-server.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/platform/iam-platform-canonic.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/platform/iam-platform-canonic.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/ids/forgotPasswordTaskFlow.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/taskflows/ForgotPasswordTaskFlow.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/taskflows/IdentityTaskFlow.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/features/iam-features-oimupgrade.zip" Copying file to 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"/opt/oracle/MiddlewareOl/Oracle\_IDMI/server/features/iam-features-selfservice.zip" Copying file to "/opt/oracle/MiddlewareOl/Oracle\_IDMI/server/loginmodule/wls/oimsignaturembean.jar" Copying file to "/opt/oracle/MiddlewareOl/Oracle\_IDMI/server/loginmodule/wls/oimsignbean.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/loginmodule/wis/OIMSignbean.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/server/loginmodule/wis/OIMAuthenticator.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/server/loginmodule/wis/OIMAuthenticator.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/loginmodule/wis/OIMAuthenticator.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/patching/oim.ear" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/patching/oimdb.zip" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/apps/spml-xsd.ear" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/apps/spml-dsml.ear" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/apps/spml-dsml.ear" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/platform/iam-platform-auth-client.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/platform/iam-platform-context.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/platform/iam-platform-pluginframework.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/platform/iam-platform-pluginframework.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/platform/iam-platform-utils.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/platform/iam-platform-utils Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/server/client/oimclient.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/server/lib/xlAPt.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/server/lib/xlAdapterUtilities.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/lib/xlDataObjectBeans.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/lib/xlDataObjects.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/lib/xlDataObjects.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/lib/xlDataObjects.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/lib/xlScheduler.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/lib/xlV0.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/bin/DW2PS1Upgrade.sh" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/bin/DW2PS1Upgrade.bat" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/common/templates/applications/oracle.oim\_11.1.1.3.0\_template\_patch.ja Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/server/webapp/admin.war" Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/server/webapp/xlWebApp.war" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/features/iam-features-Scheduler.zip" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/lib/xlCache.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/apps/role-sod.ear" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/workflows/composites/OAACGRoleAssignSODCheck.zip" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/lib/xlAttestation.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/ssointg/oimcfgtool.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/platform/iam-platform-kernel.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/common/templates/applications/oracle.oim\_11.1.1.3.0\_extendIDM11gR1dev template.zip" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/common/templates/applications/oracle.oim 11.1.1.3.0 template.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/inventory/Scripts/ext/jlib/ojdbc6dms.jar

#### OIMInstallationTutorial.docx

Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/apps/spml-xsd.ear" Copying file to "/opt/oracle/Middleware01/Oracle\_IDMI/server/bin/oracle/iam/MLSLanguageSeedingConfig.class" Copying file to "/opt/oracle/Middleware01/Oracle\_IDMI/server/bin/oracle/iam/PatchAutomationPAAS.class" Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/server/bin/oracle/iam/UpdateOAACGConfig.class" Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/server/bin/boot.properties" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/bin/opatch-import-export.template" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/bin/patch\_weblogic.sh" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/server/bin/patch\_weblogic.sh" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/patching/features/authzpolicydefn/RequestTemplateManagementPol icies.xml" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/patching/metadata/iam-features-ldapsync/LDAPRole.xml" sync/LDAPRole.xml"
Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/patching/mt/LDAPRoleMT.xml"
Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/seed\_data/lib/seedSchedulerData.jar"
Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/seed\_data/seed-rcu-data.xml"
Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/setup/deploy-files/deploySDPClient.properties"
Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/deploySDPClient.pry"
Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/deploySDPClient.pry"
Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/ommupgrade.jar"
Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/deploySommupgrade.jar"
Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/deploySommupgrade.jar"
Copying file to "/opt/oracle/Middleware01/Sommupgrade.jar"
Copying file to "/ Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/ohmpyrate.jat Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/patchJob.xml" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/patchTask.xml" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/setup.xml" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/temp/RequestTemplateManagementPolicies.xml" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/temp/RequestTemplateManagementPolicies.xml" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/oes/oimpds.jar" Copying file to "/opt/oracle/IDM1/server/bin/oracle/iam/PatchAutomationPAASNotification.class" "/opt/oracle/Middleware01/Oracle\_IDM1/server/bin/oracle/iam/PatchAutomationPAASNotification.class" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/patching/importDir/md2/metadata/iam-features-identity/IdentityNotificationEvent.xml" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/seed\_data/Seed/Template/templates/template2.properties" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/seed\_data/seed/Template/templates/template2.properties Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/generate.sh" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/features/iam-features-authzpolicydefn.zip" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/features/iam-features-authzpolicydefn.zip" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/server/lib/ContextDataUpgrade.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/lib/ContextDataUpgrade.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/server/apps/TaskDetails.ear" Patching component oracle.oim.design console, 11.1.1.5.0... Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/designconsole/lib/iam-platform-auth-client.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/designconsole/lib/iam-platform-context.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/designconsole/lib/iam-platform-context.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/designconsole/lib/iam-platform-pluginframework.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/designconsole/lib/iam-platform-utils.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/designconsole/lib/xlAPI.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/designconsole/lib/xlAPI.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/designconsole/lib/xlAPI.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/designconsole/lib/xlApterUtilities.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/designconsole/lib/xlDataObjectBeans.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle IDM1/designconsole/lib/xlDataObjects.jar" Copying file to "/opt/oracle/MiddlewareO1/Oracle\_IDM1/designconsole/lib/xlDataObjects.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/designconsole/lib/xlScheduler.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/designconsole/lib/xlV0.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/designconsole/lib/XellerateClient.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/designconsole/lib/xlCache.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/designconsole/lib/xlAttestation.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/designconsole/fvc.properties" Patching component oracle.oim.remote\_manager, 11.1.1.5.0... Copying file to "/opt/oracle/Middleware01/Oracle IDM1/remote manager/lib/xlM2.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/remote manager/lib/oimclient.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/remote manager/lib/xlAPI.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/remote\_manager/lib/xlDataObjects.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/remote\_manager/lib/xlScheduler.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/remote\_manager/lib/xlScheduler.jar" Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/remote\_manager/lib/xlScheduler.jar" Copying file to "/opt/oracle/Middleware01/Oracle IDM1/remote manager/lib/oimclient.jar" Patching component oracle.as.upgrade, 11.1.1.5.0... Copying file to "/opt/oracle/Middleware01/Oracle\_IDM1/jlib/oimua.jar" ApplySession adding interim patch '13399365' to inventory Verifying the update ... **Thyentory check OK**: Fatch ID 13399365 is registered in Oracle Home inventory with proper meta-data. **Files check OK**: Files from Patch ID 13399365 are present in Oracle Home. Execution of 'sh /opt/oracle/Download/13399365/custom/scripts/post -apply 13399365 ': log dir does not exist hence creating one Return Code = 0local system has been patched and can be restarted. [oracle@120e155\_odd 13399365]\$

We check the logfile for errors. Ok.

OPatch Stage Ok.

#### 4.11.3 Configuration of the OIM Server

We proceed with the configuration of the OIM server as documented in <a href="http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/oidonly.htm#CDDDIAIC">http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/oidonly.htm#CDDDIAIC</a> .

#### We start the AdminServer.

[oracle@12oel55\_odd base\_domain]\$ pwd /opt/oracle/Middleware01/user\_projects/domains/base\_domain [oracle@12oel55\_odd base\_domain]\$ ./startWebLogic.sh

#### We start the configuration wizard.



#### [oracle@12oel55\_odd bin]\$

#### We provide the screens of the dialog.

Å	Oracle Iden	tity Management Configuration - Step 1 of 9	_ ×
> e e	Welcome		<b>1</b> g
e	🥥 Welcome		_ ]
e	Components to Configure	Welcome to Oracle Fusion Middleware 11g Oracle Identity Manager (OIM) Installer.	-
e	🔍 Database	For additional information and installation instructions, please refer	
	WebLogic Admin Server	to the Oracle Fusion Middleware Installation Guide for Oracle Identity	
e	OIM Server	Refore proceeding make sure that you have created the schemas	
e >	Republisher	for the suite(s) you want to install. For more information, refer to the Benericent (Cranting Utility (CL) chapter in the Oracle Euclide	
>	Configuration Summary	Middleware Enterprise Installation Guide. Ensure that a domain	
1	Configuration Progress	WebLogic config wizard.	
Ē	O Comparation Complete	All shall be an annual shall be an annual shall be an	-
		Copyright (c) 2000, 2011, Oracle and/or its affiliates. All rights reserve	d.
]			
ľ			
I			
I			
1	Help	<pre></pre>	ancel
а		Elapsed Time	:1m 32s





WebLogic Admin	Server		CLE <sup>®</sup> 11 <sup>8</sup>
Welcome     Components to Configure     Database     WebLogic Admin Server     Distance     Sil Publisher     Configuration Summary     Configuration Complete	WebLogic Admin Server URL: UserName: Password:	13//1921685612:7001 kebiogic	
< ∐elp	Enter the WebLogic administ application is deployed.	ator password of the domain in	which OIM

192.168.56.12:7001 weblogic welcome1

120el55_0d	d.vboxnet:1521:orc
DEV_OIM	welcome1
DEV_MDS	welcome1



welcome1

Oracle Iden	itity Management Configuration - Step 5 of 9	Oracle Identity	Management Configuration - Step 6 of 9
OIM Server		Bl Publisher	
Welcome     Components to Configure     Database     WebLogic Admin Server     OIM Server     Dill Server     Configuration Summary     Configuration Progress     Configuration Complete	OJM Administrator           Password:           Confirm Password:           OIM HTTP URL:           http://192168.56.12:14000           KeyStore Password:           Confirm KeyStore Password:	Welcome     Components to Configure     Bl     Database     WebLogic Admin Server     Olld Server     Bl Publisher     Configuration Summary     Configuration Progress     Configuration Complete	onfigure BI Publisher Qublisher URL: http:// nable LQAP Sync
	Format: http(s)://hostname:port	LDA and be re	Psyncsynchronizes Oracle Identity Manager users, roles, role membership role hierarchy to a LDAP directory. Any direct changes in the directory will sconciled back to Oracle Identity Manager.
	< Back Next > Finish Cancel Flapsed Time: 7m 52s (Flapsed Time: 7m 52s)		< gack Next > Einish Cancel Elapsed Time: 9m 2s
welcome1X http://192.168.50 welcome1X welcome1X	6.12:14000		Management Configuration - Step 8 of 9
Configuration Su	immary CRACLE FUSION MIDDLEWARE 118	Configuration Progre	ess ORACLE FUSION MIDDLEWARE 11 <sup>g</sup>
Welcome     Components to Configure     Database     WebLogic Admin Server     OIM Server     DIM Server     DIM Server     Configuration Summary     Configuration Progress     Configuration Complete	Summary Information: Applications Selected For Configuration: OM Server Configuration Details: Out Schema User Name: DEV_MOS Weblogic Admin Server URL: 37/192168.56.12:7001 Weblogic User Name: weblogic OM HTTP URL: http://192168.56.12:14000 Save Response File Save	Velcome Components to Configure Database VebLogic Admin Server OIM Server Structure Configuration Sum mary Configuration Complete Configuration Complete	nfiguration Tools       Name     Progress       ↓ ✓ Orscie Identity Manager Configuration     100%       □ Configure OIM Server     ✔ Success       □ Configure OIM Server     ✔ Success       □ Configure OIM Server     ✔ Success       □ guration Log Location:     0 cracle Japo/crainventor/Jogs/install2012-08-22_02-29-52PM log       ✓ Orsche Identity Manager Configuration
( <u> t</u> <u> Help</u>	To change this configuration before installing, select the topic you want to change in the pane on the left. To install this configuration, select Configure.		v vrace isentity manager Contiguration → Log → Q Configure OIM Server < <u>gack</u> <u>Next&gt;</u> Einish Cancel Elapsed Time: 12m 42s

Elapsed Time: 10m 42s  $/opt/oracle/FMW\_OIM\_11.1.1.5\_config\_response.txt$ 



/opt/oracle/FMW\_OIM\_11.1.1.5\_config\_summary.txt Ok.

We follow with the post-configuration steps documented at <u>http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/oidonly.htm#autoId28</u>.

We adjust the XEL\_HOME variable.

```
[oracle@12oel55_odd bin]$ pwd
/opt/oracle/Middleware01/Oracle_IDM1/server/bin
[oracle@12oel55_odd bin]$ vi setEnv.sh
#
#XEL_HOME=..
XEL_HOME=..
XEL_HOME=/opt/oracle/Middleware01/Oracle IDM1/server
export XEL_HOME
```

We will leave the step 216.8.9 Setting oamEnabled Parameter for Identity Virtualization Library" for later.

We start the Admin Server.

#### 4.11.4 Sicherungpunkt 4

We make a snapshot with the following comments.

- OIM Patch 13399365 (OPatch Stage)
- Configuration of the OIM Server

#### 4.11.5 OIM Patch 13399365 (patch\_weblogic Stage)

We proceed with applying the second stage of the patch as descripted in the accompanying readme file

(file:///D:/15Work/06OracleIdentityManagement/p13399365/README.html#BGBBBFHD)

We edit the weblogic.profile as follows:

```
[oracle@12oel55_odd bin]$ pwd
/opt/oracle/Middleware01/Oracle_IDM1/server/bin
[oracle@12oel55_odd bin]$ cat weblogic.profile
```

<sup>#</sup> For passwords if you dont want to put password </optional> in this file just comment it out from here, you will be promted for it in rumtime.

oim\_oracle\_home=/opt/oracle/Middleware01/Oracle\_IDM1

#DB configuration variables [Mandatory]
operationsDB.user=DEV\_OIM
# Database password is optional. if you want to give it on terminal itself leave it commented. Otherwise uncomment
it.
OIM.DBPassword=welcome1
operationsDB.driver=oracle.jdbc.OracleDriver
operationsDB.host=12oel55\_odd.vboxnet
operationsDB.port=1521
appserver.type=wls

isMTEnabled=<true/false>
# If you have milty-tenancy enabled in your environment
mdsDB.user=<MDS DB Schema owner>
#Password is optional, if you want to give it on terminal itself leave it commented. Otherwise uncomment it.
#mdsDB.host=<MDS DB Schema password>
mdsDB.host=<MDS DB Host>
mdsDB.serviceName=<MDS DB ServiceName>

#For domain level configurations [Mandatory]
# put here your admin server related credentials
weblogic\_user=weblogic
#Password is optional, if you want to give it on terminal itself leave it commented. Otherwise uncomment it.
weblogic\_password=welcome1
weblogic\_host=localhost
weblogic\_port=7001
weblogic.server.dir=/opt/oracle/Middleware01/wlserver\_10.3

#oim specific domain Level parameters [Mandatory]
oimserver\_host=localhost
oimserver\_port=14000
oim\_managed\_server=oim\_server1
oim\_domain\_dir=/opt/oracle/Middleware01/user\_projects/domains/base\_domain

#isSODEnabled=<true/false>

# SOA specific details [Mandatory]
soa\_home=/opt/oracle/Middleware01/Oracle\_SOA1
soa\_managed\_server=soa\_server1
soaserver\_host=localhost
soaserver\_port=8001
#put here the name of the targets of taskdetails. in non cluster it will be soa server name and in cluster it will be
something like cluster\_soa
taskdetails\_target\_name=soa\_server1

isOHSEnabled=false
#Following params is needed only if you have enabled OHS in your env
#ohs\_home=/u01/ohs\_home

Now we patch the weblogic Admin Server. We set the environment and start the Admin Server.

```
[oracle@12oel55_odd Middleware01]$ JAVA_HOME=/opt/oracle/java/jdk1.6.0_33
[oracle@12oel55_odd Middleware01]$ PATH=$JAVA_HOME/bin:$PATH
[oracle@12oel55_odd Middleware01]$ java -version
java version "1.6.0 33"
Java(TM) SE Runtime Environment (build 1.6.0_33-b04)
Java HotSpot(TM) Server VM (build 20.8-b03, mixed mode)
[oracle@12oel55_odd Middleware01]$
```

Now we run the patch script.

[oracle@12oel55\_odd bin]\$ pwd /opt/oracle/Middleware01/Oracle\_IDM1/server/bin [oracle@12oel55\_odd bin]\$ ./patch\_weblogic.sh

There are errors in the logfile at /opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/ patch\_weblogic.log

wltaskdef: redeploy-taskdetails: [wldeploy] javax.enterprise.deploy.spi.exceptions.DeploymentManagerCreationException: [J2EE Deployment SPI:260010]Unable to connect to 't3://localhost:7001' as user, 'weblogic'. Error received: Couldn't connect to the specified host

This is strange. Which password is it using?

Additionally the AdminServer reports:

<Aug 22, 2012 3:26:46 PM CEST> <Error> <OIM Authenticator> <BEA-000000> <Authentication of user weblogic failed because of invalid password>

It should use the correct password because it is contained in the weblogic.profile correctly and it successfully connected earlier.

This time however it tries to use the OIM Authenticator. Why is it using the OIM Authenticator?

The control flag of the OIM Authenticator is set to "sufficient", indicating that it is not required to deliver a successful result.

We stop the soa\_server, restart the Admin Server and try to apply the patch again. This time the process terminates successfully.

```
...
remove-ucp-jar:
   [delete] Deleting: /opt/oracle/Middleware01/Oracle_IDM1/server/ext/ucp.jar
   [echo] configuring ohs auth
check-ohs-enabled:
   [echo] OHS enabled = "${OHSEnabled}"
config-ohs:
BUILD SUCCESSFUL
Total time: 11 minutes 14 seconds
```

We check the logfile /opt/oracle/Middleware01/Oracle\_IDM1/server/setup/deploy-files/ patch\_weblogic.log for errors. We find the following exception:

contextdata	aupgrade:
[exec]	] [EL Info]: 2012-08-22 16:22:23.41ServerSession(28688943)EclipseLink, version: Eclipse Persistence Services -
2.3.1.v2011	11018-r10243
[exec]	] [EL Info]: 2012-08-22 16:22:23.47ServerSession(28688943)oim login successful
[exec]	] Updating orchprocess table with context values
[exec]	] java.sgl.SQLSyntaxErrorException: ORA-00904: "CONTEXTID": invalid identifier
[exec]	
[exec]	at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:445)
[exec]	at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:396)
[exec]	at oracle.idbc.driver.T4C80all.processError(T4C80all.java:879)
[exec]	at oracle.idbc.driver.T4CTTIfun.receive(T4CTTIfun.iava:450)
[exec]	at oracle.idbc.driver.T4CTTIfun.doRPC(T4CTTIfun.iava:192)
[exec]	at oracle.jdbc.driver.T4C80all.doOALL(T4C80all.java:531)
[exec]	at oracle idbc driver T4CPreparedStatement doDall8(T4CPreparedStatement java-207)
[exec]	at oracle, idbo driver T4CPreparedStatement executeForDescribe(T4CPreparedStatement java-884)
[exec]	at oracle idbo driver OracleStatement executeMaybeDescribe(OracleStatement iava:1167)
[evec]	at oracle jube driver OracleStatement devecuteMithTimeout (OracleStatement java-128)
[evec]	at oracle jube driver OraclePrenaredStatement eventeInternal(OraclePrenaredStatement java-3593)
[oxoc]	at oracle idea driver, oracle propaged statement, executed users (Oracle Propaged Statement, isus 3637)
[exce]	j at oracle, idea driver, oracle personalitation twanter, oracle oracle personal example in the interval of th
[exec]	at oracle.jubc.driver.oraclerreparedstatementwrapper.executeguery(oraclerreparedstatementwrapper.java.1455)
[exec]	j at simungaa atandalana faatura karnal CantautDataUngrada undataOrakDraasagmahla/CantautDataUngrada jauat261)
loved	.olmuppiade.standatohe.leature.kenel.contextbataopgiade.jav.201
[exec]	j at office.iam.ofmopgrade.standatone.ieature.kernel.contextoataopgrade.main(contextoataopgrade.java.204)
[exec]	, oracle.ida.domupprade.standaione.reature.kerner.ormopgradeskception. java.sql.syntaksrioiskception. oka-00304.
CONTENTED	. Invalid Identifier
[exec]	
[exec]	j at simungaa atandalana faatura karnal CantautDataUngrada undataOrakDraasagmahla/CantautDataUngrada jauat294)
lovoci	.olmuppirade.standarbne.leature.standalono foaturo korpal contextDataburgande main (contextDataburgande java:234)
[exec]	at the state of
[exec]	I caused by: Java.sql.sql.sql.sql.sql.sql.sql.sql.sql.sql
[exec]	J
[exec]	j at oracle.jobc.drive.r4criber.procession(14criber.java.443)
[exec]	j at oracle.jdbc.driver.14C1110er.processerio(14C1110er.java:390)
[exec]	j at oracle.jdbc.driver.140.00011.processError(140.0041.jaVa:873)
[exec]	j at oracle.jdbc.driver.i4(fillun.receive(i4(fillun.jdva:450)
[exec]	j at oracle.jdbc.driver.T4CTTTTUN.doRPC(T4CTTITUN.java:192)
[exec]	at oracle.jdbc.driver.T4C80all.doOALL(T4C80all.java:531)
[exec]	at oracle.jdbc.driver.T4CPreparedStatement.doOal18(T4CPreparedStatement.java:207)
[exec]	at oracle.jdbc.driver.T4CPreparedStatement.executeForDescribe(T4CPreparedStatement.java:884)
[exec]	at oracle.jdbc.driver.OracleStatement.executeMaybeDescribe(OracleStatement.java:1167)
[exec]	at oracle.jdbc.driver.oracleStatement.doExecuteWithTimeout(OracleStatement.java:1289)
[exec]	at oracle.jdbc.driver.oraclePreparedStatement.executeInternal(OraclePreparedStatement.java:3593)
[exec]	] at oracle.jdbc.driver.OraclePreparedStatement.executeQuery(OraclePreparedStatement.java:3637)
[exec]	] at oracle.jdbc.driver.OraclePreparedStatementWrapper.executeQuery(OraclePreparedStatementWrapper.java:1495)
[exec]	at at a second
oracle.iam.	.oimupgrade.standalone.feature.kernel.ContextDataUpgrade.updateOrchProcessTable(ContextDataUpgrade.java:261)
[exec]	1 1 more
[echo]	] all the sql files coming with patch are applied, now seeding PAAS task, job and notification

We don't know if this is relevant but we consider the patch process as successful.

#### 4.11.6 Configuration of Nodemanager

We start the nodemanger.

```
[oracle@12oe155_odd bin]$ pwd
/opt/oracle/Middleware01/wlserver_10.3/server/bin
[oracle@12oe155_odd bin]$ ./startNodeManager.sh
```

This will cause the file nodemanager.properties to be created in the nodemanager home directory.

We edit this file and set the property "StartScriptEnabled=true".

```
[oracle@12oel55_odd nodemanager]$ pwd
/opt/oracle/Middleware01/wlserver_10.3/common/nodemanager
[oracle@12oel55 odd nodemanager]$ grep Start nodemanager.properties
StartScriptName=startWebLogic.sh
StartScriptEnabled=true
```

We restart the nodemanager.

There are some SSL problems with the communication between the Nodemanager and the AdminServer. We disable hostname verification in the Adminserver. We also add the oim\_server to the WLS machine "LocalMachine".

We restart nodemanager and Adminserver.

The managed servers are now startable via the nodemanager. Ok.

Now we can login with user xelsysadm/welcome1X at the URL <u>http://192.168.56.12:14000/oim</u>.

We have to answer some initial security questions.

						X
← ⇒ C	192.168.56.12:14000/admin/	faces/pages/	pwdmgmt.jspx?k	日本 公 〇 へ 〇 へ	<b></b>	٩
ORACLE	Identity Manager			Verfügbarkeit Angemel	Abmelden det als xelsys	o adm
Oracle Identi	ty Manager					
Kennwortve	rwaltung					
🔒 Kennwo	rtverwaltung			We	eiterleiten	
Geheime K *Frage 1 *Frage 2 *Frage 3	ennwortfragen für Ihren Accour Wie lautet der Geburtsname Ihrer Mutter?	nt registrierer Antwort 1 Antwort 2 Antwort 3	n xxx yyyy zzz			
Copyright © 2011, O	ade und/oder verbundene Unternehmen. All	rights			In	fo

Figure 8. Login to the OIM

#### 4.11.7 Sicherheitpunkt 5

We create a machine snapshot with the following comments: OIM Patch 13399365 (patch\_weblogic Stage) Nodemanger Configuration Started Servers: -Nodemanager -AdminServer -oim\_server1 -soa\_server1

## 4.12 Installation of the OIM Design Console

To configure the Design Console we follow the instructions at

http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/oidonly.htm#CIHDDJEA. We will install the Design Console on the Host Machine, which is a Windows 7 system. The following picture illustrates this installation.



Figure 9. Installation of the OIM Design Console on Windows 7, connecting to the OIM running on a Linux virtual machine.

First we need to install the OIM Software on the windows machine. After that, we start the configuration wizard to configure the Design Console.

We can only install the OIM software into a Middleware Home where WLS 10.3.5 or WLS 10.3.6 is installed.

Therefor we install WLS from the installer E:\01Downloads\wls1035\_win32.exe to D:\10Oracle\04OIM as indicated in the following screenshot of the WLS installation wizard.

Oracle Installer WebLogic 10.3.5.0	
Middleware-Standardverzeichnis wählen Wählen Sie das Middleware-Standardverzeichnis, in dem die Installat WebLogic 10.3.5.0.	ion erfolgen soll: ORACLE
Middleware-Standardverzeichnistyp     O Ein vorhandenes Middleware-Standardverzeichnis verwenden     Neues Middleware-Standardverzeichnis erstellen	D:\10Oracle\01Middleware D:\12Forms
Middleware-Standardverzeichnis D:\100racle\040IM Durchsuchen Zurücksetzen Beenden	Zurück

Figure 10. WLS Installation as prerequisite for the OIM Design Console Installation.

We will use the generic OIM installer described in 7.1.6. We run the installation in a CMD-Shell using the JDK 1.6.

C:\Users\uScorpio>cd D:\100racle\040IM C:\Users\uScorpio>d: D:\100racle\040IM>set JAVA\_HOME=D:\13Java\03JavaSE6\jdk1.6.0\_33-64bit D:\100racle\040IM>%JAVA\_HOME%\bin\java -version java version "1.6.0\_33" Java(TM) SE Runtime Environment (build 1.6.0 33-b05) Java HotSpot(TM) 64-Bit Server VM (build 20.8-b03, mixed mode) D:\100racle\040IM>E:\01Downloads\ofm iam generic 11.1.1.5.0 disk1 lof1\Disk1\setup.exe

#### This will start the OIM Installer with the following dialog screens:



Figure 11. Installation dialog for the OIM installation as prerequisite for the design console.

We save the response file to D:\10Oracle\04OIM\0IM\_10.1.1.5\_Installation\_Response.txt. The installation log is saved to C:\Program Files\Oracle\Inventory\logs\install2012-09-19\_02-08-31PM.log. We save the installation summary to D:\10Oracle\04OIM\ OIM\_10.1.1.5\_Installation\_Summary.txt.

To configure the Design Console we start D:\10Oracle\04OIM\Oracle\_IDM1\bin\config.bat



Figure 12. Dialog to configure the Design Console on Windows.

We save the following files:

- D:\10Oracle\04OIM\0IM\_10.1.1.5\_DesignConsole\_Response.txt
- D:\100racle\040IM\0IM\_10.1.1.5\_DesignConsole\_Summary.txt
- C:\Program Files\Oracle\Inventory\logs\install2012-09-19\_02-44-53PM.log

We now follow the post configuration step of creating a wlfullclient.jar.

```
[oracle@12oel55_odd bin]$ echo $JAVA_HOME
/opt/oracle/Middleware01/jrockit_160_29_D1.2.0-10
[oracle@12oel55_odd bin]$ java -version
java version "1.6.0_29"
Java(TM) SE Runtime Environment (build 1.6.0 29-b11)
Oracle JRockit(R) (build R28.2.0-79-146777-1.6.0 29-20111005-1807-linux-ia32, compiled mode)
[oracle@12oel55 odd lib]$ pwd
/opt/oracle/Middleware01/wlserver_10.3/server/lib
[oracle@12oel55_odd lib]$ ls -la wlfull*
-rw-rw-rw-r-- 1 oracle oracle 55004433 Aug 22 16:25 wlfullclient.jar
[oracle@12oel55 odd lib]$ java -jar wljarbuilder.jar 1&>2 > wlfullclient.jar.txt
[oracle@12oel55_odd lib]$ ls -la wlfullclient.jar*
-rw-rw-r-- 1 oracle oracle 55004433 Sep 19 15:09 wlfullclient.jar.org
-rw-rw-r-- 1 oracle oracle 55004433 Sep 19 15:09 wlfullclient.jar.txt
[oracle@12oel55_odd lib]$ cp wlfullclient.jar /media/sf_01SharedFolder/
```

There was already a wlfullclient.jar contained in that directory. We repeat the creation and verify that the file is identical. For reference we safe the output of the command in a textfile. Finally we copy the file to its target destination.

```
D:\100racle\040IM\0racle_IDM1\designconsole\ext>copy
D:\16VirtualBox\120EL55_0DD\01SharedFolder\wlfullclient.jar .
    1 Datei(en) kopiert.
```

Now we start the Design Console.

```
D:\100racle\040IM\0racle_IDM1\designconsole>xlclient.cmd
```

We use the xelsysadm/welcome1X to login. The Desing Console opens and is connected to the Database running on 12OEL55\_ODD. We provide a screenshot.

### OIMInstallationTutorial.docx

Oracle Identity Manager Design C	🖸 Oracle Identity Manager Design Console : connected to jdbc:oracle:thin:@12oel55_odd.vboxnet:1521/orcl				
<u>File Edit T</u> ool Bar <u>H</u> elp					
	h 🕄 🗙 🗊				
Oracle Identity Manager Design Conso	User Information	n			
🖃 🧰 User Management	UserID	DCRANE	Organization	FINANCE	
- A Organizational Defaults	First Name	Danny	User Type	End-User Administrator	
Policy History	Middle Name		Employee Type	Full Time Employee	
Peseures Management	Last Name	0	Managar M	Ган-тине стирюуес	
	East Name	Crane	managerio		
Rule Designer	Email Address	danny.crane@mydomain.com	End Date		
Resource Objects	Start Date		Created on		
- Process Management	Status	Active			
Email Definition	Policy History				
Process Definition	Display Selection	Resources	s Allowed	Resources Not A	llowed
- Administration		None		None	
Lookup Definition	Resource Polic	y Sum 💌			
Bemote Manager					
Password Policies					
- Development Tools	Policy His	story			
Adapter Factory	- toney m				
Adapter Manager					
Form Designer					
Error Message Definition					
Business Rule Definition					
Reconcination Rules					
	Organizational [	Defaults Organizational Defa	ults Table Po	olicy History Policy Histo	ory Table

Figure 13. OIM Design Console running on Windows 7, connected to the database on 12OEL55\_ODD.

We omit the configuration of the xlconfig.xml and SSL because we don't need it here.

## 5 Starting and Stopping OIM

We start the Nodemanger first. Then we start the AdminServer, OIM-Server and SOA-Server all in separate shells. To be able to start the managed servers without password prompt, we insert user and password into the script:

/opt/oracle/Middleware01/user\_projects/domains/base\_domain/bin/ startManagedWebLogic.sh:

```
WLS_USER="weblogic"
export WLS_USER
WLS_PW="welcome1"
export WLS_PW
```

We start the Nodemanger.

```
cd /opt/oracle/Middleware01/wlserver_10.3/server/bin ./startNodeManager.sh
```

We start the AdminServer

cd /opt/oracle/Middleware01/user projects/domains/base domain ./startWebLogic.sh

Starting the OIM Server:

cd /opt/oracle/Middleware01/user\_projects/domains/base\_domain/bin

./startManagedWebLogic.sh oim\_server1

#### Starting the SOA Server:

```
cd /opt/oracle/Middleware01/user_projects/domains/base_domain/bin
./startManagedWebLogic.sh soa_server1
```

We stop the servers with Ctrl-C in the shell.

## 6 JDeveloper

We need JDeveloper for editing workflows. It is already installed in the appliance 12OEL55\_ODD, however in an outdated version and not in the studio edition. Therefore we make a fresh installation.

#### 6.1 Installation of JDeveloper 11.1.1.6.0

We download the latest "JDeveloper Studio Edition" and install it (see 7.1.8). We consult the installation guide at <a href="http://docs.oracle.com/cd/E23943\_01/install.1111/e13666/ojdig.htm">http://docs.oracle.com/cd/E23943\_01/install.1111/e13666/ojdig.htm</a>.

We start the installer.

#### We provide the screens of the installation dialog.

🧟 Oracle Installer - Oracle JDeveloper 11g (11.1.1.6.0)	Oracle Installer - Oracle JDeveloper 11g (11.1.1.6.0)
Welcome This installer will guide you through the installation of JOeveloper 11g (11.1.1.6.0) Studio Edition	Choose Middleware Home Directory Specify the Middleware Home where you wish to install Oracle Products.
CIIck the Next button to proceed to the next screen. If you want to change entries in a previous screen, click the Previous button. You may quit the installer at any time by clicking the Exit button.	Middleware Home Type Front/encle/Middleware1  Outer a new Middleware Home Middleware Home Middleware Home Directory  /opt/oracle/Middleware01  Browse Beset
Egit Previous Next Oracle Installer - Oracle JDeveloper 11g (11.1.1.6.0) K Choose Middleware Home Directory Specify the Middleware Home where you wish to install Oracle Products.	
Middleware Home Use an existing Middleware Home Create a new Middleware Home Error The product maintenance level of the current installer The product maintenance level of the current installer	Middleware Home Type // //opt//oracle/Middleware01 ○ Use an existing Middleware Home © Create a new Middleware Home
(VELODIA STRETADULADIAN)     (VELODIALIZADULADIAN)      (VELODIALIZADULADIAN)      (VELODIALIZADULADIAN	Middleware Home Directory /opt/oracle/Middleware02 Browse Beset
Exit Previous Next	Exit Previous Next

🧟 Oracle Installer - Oracle jDeveloper 11g (11.1.1.6.0) 📃 🗙	👼 Oracle Installer - Oracle JDeveloper 11g (11.1.1.6.0)
Choose Install Type Select the type of installation you wish to perform.	Choose Products and Components Select the products and components you wish to install. Grayed selections are already installed. Double-click headings to reveal or collapse selections.
Complete  Install the following software products:  JDeveloper and ADF  WebLogic Server  Cocustom  Choose software products and components to install and perform optional configuration.	Developer and ADF     Developer Studio     Application Development Framework Runtin     Orer Application Server     Administration Console     Corre Application Server     Administration Console     Configuration Wizard and Ubgrade Framew     WebLogic Server Clients     WebLogic Server Clients     WebLogic Server Clients     WebLogic Server Clients     UDDI and Xquery Support     Comain antifacts: 24.2 MB     Thataler requires free space
Exit Previous Next	Exit Previous Next
Oracle Installer - Oracle IDeveloper 11g (11.1.1.6.0)	Oracle Installer - Oracle (Developer 11g (11.1.1.6.0)
JDK Selection Bundled DK(s) chosen for use with this product installation will be installed. If not deselected, the default JDK will be used in script string-substitution.	Confirm Product Installation Directories Confirm the directories where you wish to install Oracle Products.
💍 Dis <u>c</u> ard Changes	Č Dis <u>c</u> ard Changes
Rundled IDV: Approximate installed size*	Middleware Home Directory
UN SDK 1.6.0_24 Highlighted item: 174.0 MB	g /opt/oracle/Middleware02
All selected bundled JDK's: U.U KB Total of all selected items: 1.307.5 MB	Product Installation Directories
*Installer requires free space	The Product Home might contain shared utilities and any products or components for which unique directories are not set. JDeveloper and ADF:
	/opt/oracle/Middleware02/jdeveloper
✓ Sun SDK 1.6.0_33 (/opt/oracle/java/jdk1.6.0_33)	WebLogic Server:
	Tohilor grief winding got fulls (14.6 - 20.3 - 20.4 - 20.3 - 20.4 -
Browse	
Egit Previous Next	Exit Previous Next
🛃 Oracle Installer - Oracle JDeveloper 11g (11.1.1.6.0)	👼 Oracle Installer - Oracle JDeveloper 11g (11.1.1.6.0)
Installation Summary	Installation Complete
The following Products will be installed.	Click the Done button to exit the installer.
Developer and ADF     Developer Studio     Application Development Framewo     WebLogic Server     Configuration Mizard and Upgrade     WebLogic SDBC Drivers     WebLogic Server Clients     UDDI and Xquery Support	Congratulations! Installation is complete.
Total of all selected items: 1,307.6 MB	
Exit Previous Next	

We were not able to use the Middleware01 home directory because we have a newer version of WLS installed. Instead we choose a new Middleware02 home directory. We deselect the old JDK and choose our latest installation of the JDK 1.6. Update 33.

We create a new desktop icon with the Launcher command /opt/oracle/Middleware02/jdeveloper/jdev/bin/jdev.

## 6.2 Installation of the SOA Composite Editor

We want to install the SCA (SOA Composite Editor). We start the (Menu->Help->Check for Updates) dialog.

We provide the screens.

۵	Check for Updates - Step 1 of 5	۵	Check for Updates - Step 2 of 5
Welcome		Window Menu Source	
Welcome	Welcome to the Check for Updates Wizard	welcome	Choose whether to search for updates on the internet or to install an update from a bundle you have already downloaded.
V Lindates	This wizard is used to download and install extensions and patches for Oracle JDeveloper 11g Release 1.	Source	(a) Search Update Centers:
Download Summary	You can choose whether to install updates from a local update bundle or from a remote update center.	Download Summary	✓ Oracle Fusion Middleware Products       ▲dd         http://www.oracle.com/ocom/groups/public/@otn/docu       Remove         ✓ Official Oracle Extensions and Updates       Edit         http://thmldb.oracle.com/pis/otn/ftp=updatecenteruc       Edit         Open Source and Partners Extensions       http://www.oracle.com/ocom/groups/public/@otn/docu
Help	Skip This Page Next Time	Help	Install From Local File     Elie Name:     Cancel     Einish Cancel
4	Check for Updates - Step 3 of 5	۵	Check for Updates - Step 5 of 5
Window Menu Opdates		Summary	
Welcome Source Updates Download Summary	The following updates are available. Check the updates you want to install. Available Updates:	V Welcome Source Updates Download	NewExtensions    Oracle SOA Composite Editor version 11.1.1.6.0.15.53     To close this wizard, click Finish.
Help	< <u>Back</u> <u>Next&gt;</u> <u>F</u> inish Cancel		To close this weard, click Philsh.

#### The SOA composite editor is installed after a restart.



Figure 14. JDeveloper with the SOA Composite Editor installed.

Ok.

OIMInstallationTutorial.docx

## 6.3 Sicherungspunkt 6

We make snapshot with the following comments.

- JDeveloper Studio Edition 11.1.1.6.0 installed to /opt/oracle/Middleware02
- SOA Component Editor installed.

## 7 Downloads

This chapter contains all downloads used during this tutorial.

#### 7.1.1 Oracle\_Developer\_Day.ova

- Link http://www.oracle.com/technetwork/database/enterprise-edition/databaseappdev-vm-161299.html
- FileD:\01Downloads\Oracle\_Developer\_Day.ova
- MD5 a3cd505b4a3f56053504caaec61d47c7 (matches website md5)
- Notes This appliance is a 32-bit Linux 5.5 User/Password oracle/oracle

```
[oracle@localhost ~]$ cat /proc/version
Linux version 2.6.18-194.17.1.0.1.el5 (mockbuild@ca-build9.us.oracle.com) (gcc version 4.1.2
20080704 (Red Hat 4.1.2-48)) #1 SMP Wed Sep 29 15:40:03 EDT 2010
[oracle@localhost ~]$ uname -a
Linux localhost.localdomain 2.6.18-194.17.1.0.1.el5 #1 SMP Wed Sep 29 15:40:03 EDT 2010 i686 i686
i386 GNU/Linux
[oracle@localhost ~]$
[oracle@localhost ~]$ cat /etc/*-release
Enterprise Linux Enterprise Linux Server release 5.5 (Carthage)
Red Hat Enterprise Linux Server release 5.5 (Tikanga)
```

#### 7.1.2 Oracle\_Developer\_Days.ova

- **Link** Not available anymore.
- File D:\01Downloads\Oracle\_Developer\_Days.ova
- MD5 ad768aa37c2002cfbee1e2bbf2fa41ee
- **Notes** This is the older version which I installed on 20.04.2012

#### 7.1.3 Weblogic Server 10.3.6 Linux 32-bit

- Link http://www.oracle.com/technetwork/middleware/ias/downloads/wls-main-097127.html
- FileE:\01Downloads\wls1036\_linux32.bin
- **MD5** 496f4bb4b31d865d8a32f6f798ae9e9d
- Notes

#### 7.1.4 Java SE Development Kit 6 Update 33 (Linux 32-bit)

Link	http://www.oracle.com/technetwork/java/javase/downloads/jdk6-downloads-1637591.html
File	D:\01Downloads\jdk-6u33-linux-i586.bin
MD5	7eb4177d558b4ec2ddc2f792ab087364 (not found)
Notes	

OIMInstallationTutorial.docx

×

## 7.1.5 Oracle SOA Suite 11g (11.1.1.6.0) Generic Installer

- Link <u>http://www.oracle.com/technetwork/middleware/soasuite/downloads/index.html</u>
- File Part 1: D:\01Downloads\ofm\_soa\_generic\_11.1.1.6.0\_disk1\_1of2.zip
- Part 2: D:\01Downloads\ofm\_soa\_generic\_11.1.1.6.0\_disk1\_2of2.zip
- MD5 Part 1: 220b3eab930af3ecf6bedda523c17fed (unknown)
- Part 2: 18427a87c217f8617da316054e8c5a95 (unknown)
- Notes Downloaded 8.8.2012.

#### 7.1.6 Oracle Identity and Access Management (11.1.1.5) Generic Installer

- Link http://www.oracle.com/technetwork/middleware/downloads/oid-11g-161194.html
- File D:\01Downloads\ofm\_iam\_generic\_11.1.1.5.0\_disk1\_1of1.zip
- **MD5** 29373fbaac445a8af717b0153083d337 (unknown)

Notes

## 7.1.7 OIM Patch 13399365

Link xxx

File	D:\01Downloads\p13399365_111150_Generic.zip			
MD5	7d73c9c8dedbba520cee8f895bd757ce (ok)			
Notes	File Download (1 File, 1 Patch)			

Include I	Prerequisites		📝 Show Digest Details
🔒 p13399	365_111150_Generic.zip	228.5 MB	(239564479 bytes)
SHA-1	7F38A86CD0E1C34F89A20A515F5FD50BA5A8E	189	
MD5	7D73C9C8DEDBBA520CEE8F895BD757CE		
Total 1 File		228.5 MB	
		About 15+m	inutes (at 256 KB/sec)
lote: A Sing ip: Use a Do	e patch or software bundle can contain multiple file wwnload Manager Learn More	es.	

	SUPPORT In PowerView is Off	Welcome, ANDREAS 🚾 (0) Contact Us Help 🕶	Sign Out
▼···· Knowledge Service Reque Patches & Updates > Patch Search Re	sts Patches & Updates Community Certifications More •	★ Search Knowledge Base	Advanced
Patch Search			
Patch Search Results			
	Close		
View 👻 🚮 Detach	😭 Patch 13399365: TRACKING BUG OF BUILD FOR BU	JNDLE PATCH 11.1.1.5.2	*
Patch Description Name Description TRACKING BUG OF BUILD FOR BUNDLE PATCH 11.1.1.5.2 (Patch)	Last 02-May-2012 19:20 (3+ Updated months ago) Product Oracle Identity Manager Release FMW 11.1.1.5.0 Platform Generic Platform	Release 11.1.1.5.0 Platform Generic Platform Language American English	
	Recommendations / Certifications Recommended for:	Read Me Download Add to Plan	
	Oracle Identity Management 11.1.1.5.0		
	Oracle Identity Manager 11.1.1.5.0	8 Error in loading the discussion thread	
	Bugs Resolved by This Patch	There has been an error while loading this discussion thread.	
	10243868 PROVIDE THE ABILITY TO DISABLE SCHEDULER ON AN OIM MANAGED SERVER		
	10334833 IN OIM 11G EMAIL NOTIFICATION NOT WORKING		
	10384392 ERRORS AND WARNINGS IN OIM 11G TERMINAL WINDOW		
	11654973 IAM-0080062 ERROR OCCURS WHEN UPDATING A USER NOT SYNC-UP TO LDAP YET		
	11707846 ST3817. 1: RESET PWD & CHANGE QUESTIONAIRRE UI DOESNT REDIRECT BACK TO FUSION APP		
	11739399 GENERATED PASSWORDS ARE EMAILED TO USER'S		

#### 7.1.8 Oracle JDeveloper 11g (11.1.1.6.0) Studio Edition, Linux

- Linkhttp://www.oracle.com/technetwork/developer-tools/jdev/downloads/jdeveloper11116-1377208.htmlFileD:\01Downloads\jdevstudio11116install.binMD5169cc5cd112235094fd0535af1624861
- **ND5** 169005001122550941005558.

Notes

## 7.1.9 Repository Creation Utility 11.1.1.6.0 Linux

- Link <u>http://www.oracle.com/technetwork/middleware/soasuite/downloads/index.html</u>
- File D:\01Downloads\ofm\_rcu\_linux\_11.1.1.6.0\_disk1\_1of1.zip
- **MD5** a0512b09951e43766e5079ac2f96ccb8
- NotesRepository Creation Utility 11.1.1.6.0 Size: 399 MB, Check Sum: 201758785<br/>RCU is used to create and populate the database schemas required by the SOA Suite.<br/>Note: If you want to use Oracle XE as your database, you need to set the<br/>RCU\_JDBC\_TRIM\_BLOCKS environment variable to TRUE \*prior\* to running RCU.

## 8 Miscellaneous

## 8.1 OIM Installation on Linux 6.3 Fails

The following subsections contain the steps to install OIM on an Oracle Linux 6.3 VM, which however failed in the final step of the installation of the OAM.

We provide a description of the failed approach and some analysis for references. If you run in some of the error conditions you might want to consider to fall back to OEL 5.8. Another option is proceeding to OIM 11g R2. A friend reported that he managed to install it on OEL 6.3.

## 8.1.1 Installation of Java (JDK 1.6.0\_33 64-Bit)

We install the JDK 1.6 (see download link **Fehler! Verweisquelle konnte nicht gefunden werden.**) on 11OEL63 at /home/oracle/java:

```
[oracle@11oel63 bin]$ pwd
/home/oracle/java/jdk1.6.0_33/bin
[oracle@11oel63 bin]$ ./java -version
java version "1.6.0_33"
Java(TM) SE Runtime Environment (build 1.6.0_33-b04)
Java HotSpot(TM) 64-Bit Server VM (build 20.8-b03, mixed mode)
[oracle@11oel63 bin]$
```

## 8.1.2 Installation of WLS

We install WLS 10.3.6 64-bit on 11OEL63 as user oracle. We use the download from **Fehler!** Verweisquelle konnte nicht gefunden werden.

WLS is installed to /home/oracle/Oracle/Middleware01/wlserver\_10.3/ We test the installation by starting the example server.

[oracle@11oel63 wl\_server]\$ pwd /home/oracle/Oracle/Middleware01/wlserver 10.3/samples/domains/wl\_server [oracle@11oel63 wl\_server]\$ ./startWebLogic.sh

Test-URLs <u>http://11oel63:7001</u> Ok. <u>http://11oel63:7001/console</u> (weblogic/welcome1) Ok.

## 8.1.3 Installation of SOA suite

We follow the instructions at <a href="http://docs.oracle.com/cd/E23943\_01/install.1111/e10033/before.htm#BABJJHFB">http://docs.oracle.com/cd/E23943\_01/install.1111/e10033/before.htm#BABJJHFB</a>

Downloading the software

The only version available for download is SOA Suite 11.1.1.6. So we hope that it works together with OIM 11.1.1.5.

We use the download from Fehler! Verweisquelle konnte nicht gefunden werden.

We copy the files to 11OEL63 at /home/oracle/Downloads/soa.

```
[oracle@11oe163 soa]$ pwd
/home/oracle/Downloads/soa
[oracle@11oe163 soa]$ cp /media/sf_01SharedFolder/ofm_soa_generic_11.1.1.6.0_disk1_lof2.zip
[oracle@11oe163 soa]$ unzip ofm_soa_generic_11.1.1.6.0_disk1_lof2.zip
[oracle@11oe163 soa]$ rm ofm_soa_generic_11.1.1.6.0_disk1_lof2.zip
[oracle@11oe163 soa]$ cp /media/sf_01SharedFolder/ofm_soa_generic_11.1.1.6.0_disk1_2of2.zip
[oracle@11oe163 soa]$ unzip ofm_soa_generic_11.1.1.6.0_disk1_2of2.zip
[oracle@11oe163 soa]$ unzip ofm_soa_generic_11.1.1.6.0_disk1_2of2.zip
[oracle@11oe163 soa]$ rm ofm soa_generic_11.1.1.6.0_disk1_2of2.zip
[oracle@11oe163 soa]$ rm ofm soa_generic_11.1.1.6.0_disk1_2of2.zip
```

We assume that we do not have to run the RCU again, but that the DEV\_SOAINFRA schemas will be used by the OIM installer.

Staring the SOA installer We start the SOA installer.



#### The installer starts up.

📓 Oracle Fusion M	iddleware 11g SOA Suite	e Installation X
Specify Inventory direc	tory	EUSION MIDDLEWARE 11
You are starting your first installation on th installer files. This is called the "inventory of up subdirectories for each product to cont	his host. As part of this install, you directory". Within the inventory direc tain inventory data and will consum	need to specify a directory for ctory, the installer automatically sets e typically 150 Kilobytes per product.
Enter the full path of the inventory director	ry.	
You can specify an Operating System grou	p that has write permissions to the	above directory
Inventory <u>D</u> irectory:	/home/oracle/oralnvento	ry <u>B</u> rowse
Operating System Group name:	oracle	
Help		<u>O</u> k Cancel



## Running the root script We run the required script as root:

root@lloel63 oracle]# cd oraInventory/ [root@lloel63 oraInventory]# ls createCentralInventory#134446941356.sh createCentralInventory.sh logs [root@lloel63 oraInventory]# ./createCentralInventory.sh Setting the inventory to /home/oracle/oraInventory Setting the group name to oracle Creating the Oracle inventory pointer file (/etc/oraInst.loc)

Changing permissions of /home/oracle/oraInventory to 770. Changing groupname of /home/oracle/oraInventory to oracle. The execution of the script is complete [root@110el63 oraInventory]#



Installation of missing packages for Linux The error message is as follows:

Checking recommended operating system packages
Checking for binutils-2.20.51.0.2-5.11.el6-x86 64; found binutils-2.20.51.0.2-5.34.el6-x86 64. Passed
Checking for compat-libcapl-1.10-1-x86 64; Not found. Failed <<<<
Checking for compat-libstdc++-33-3.2.3-69.el6-x86 64; Not found. Failed <<<<
Checking for compat-libstdc++-33-3.2.3-69.el6-i686; Not found. Failed <<<<
Checking for libgcc-4.4.4-13.el6-i686; Not found. Failed <<<<
Checking for libgcc-4.4.4-13.el6-x86_64; found libgcc-4.4.6-4.el6-x86_64. Passed
Checking for libstdc++-4.4.4-13.el6-x86_64; found libstdc++-4.4.6-4.el6-x86_64. Passed
Checking for libstdc++-4.4.4-13.el6-i686; Not found. Failed <<<<
Checking for libstdc++-devel-4.4.4-13.el6-x86 64; Not found. Failed <<<<
Checking for sysstat-9.0.4-11.el6-x86 64; found sysstat-9.0.4-20.el6-x86 64. Passed
Checking for gcc-4.4.4-13.el6-x86_64; found gcc-4.4.6-4.el6-x86_64. Passed
Checking for gcc-c++-4.4.4-13.el6-x86_64; Not found. Failed <<<<
Checking for glibc-2.12-1.7.el6-i686; found glibc-2.12-1.80.el6_3.3-i686. Passed
Checking for glibc-2.12-1.7.el6-x86 64; found glibc-2.12-1.80.el6 3.3-x86 64. Passed
Checking for glibc-devel-2.12-1.7.el6-x86 64; found glibc-devel-2.12-1.80.el6 3.3-x86 64. Passed
Checking for glibc-devel-2.12-1.7.el6; found glibc-devel-2.12-1.80.el6_3.3-x86_64. Passed
Checking for libaio-0.3.107-10.el6-x86_64; found libaio-0.3.107-10.el6-x86_64. Passed
Checking for libaio-devel-0.3.107-10.el6-x86_64; Not found. Failed <<<<
Check complete. The overall result of this check is: Failed <<<<
Problem: Some recommended packages are missing (see above).
Recommendation: You may actually have installed packages which have obsoleted these, in which case you can
successfully continue with the install. If you have not, it is recommended that you do not continue. Refer
to the product release notes to find out how to get the missing packages and update the system.
Checking Kernel parameters
Checking for Veksion=2.6.32-100.28.5.et6; Iouna veksion=2.6.39-200.29.2.el6uek.x86_64. Passed
Checking for hardnotiles=4096; found hardnotiles=4096. Passed
Checking for softnofiles=4096; found softnofiles=4096. Passed

```
Check complete. The overall result of this check is: Passed

Checking Recommended glibc version

Expected result: ATLEAST=2.12-1.7.e16

Actual Result: 2.12-1.80.e16_3.3

Check complete. The overall result of this check is: Passed

Checking physical memory

Expected result: 1024MB

Actual Result: 5980MB

Check complete. The overall result of this check is: Passed
```

We can install one part of the missing package successful using yum, however the following packages are still missing. We check the installed versions with rpm -qa | grep packagename

7: Checking for compat-libstdc++-33-3.2.3-69.el6-i686; Not found. Failed <<<<
<pre>compat-libstdc++-33-3.2.3-69.el6.x86_64</pre>
8: Checking for libgcc-4.4.4-13.el6-i686; Not found. Failed <<<<
libgcc-4.4.6-4.el6.x86_64
11: Checking for libstdc++-4.4.4-13.el6-i686; Not found. Failed <<<<
libstdc++-4.4.6-4.el6.x86_64
12: Checking for <pre>libs</pre> tdc++-devel-4.4.4-13.el6-x86_64; Not found. Failed <<<<
None None
15: Checking for <u>gcc-</u> c++-4.4.4-13.el6-x86 64; Not found. Failed <<<<
None None
22: Check complete. The overall result of this check is: Failed <<<<

The packages with the –i686 extension are for 32-bit Linux. It shouldn't have asked for it anyway.

The missing package cannot be installed due to errors in dependency violations.

```
[root@11oel63 ~]# yum install libstdc++-devel-4.4.4-13.el6
Loaded plugins: refresh-packagekit, security
Setting up Install Process
Resolving Dependencies
--> Running transaction check
---> Package libstdc++-devel.x86_64 0:4.4.4-13.el6 will be installed
--> Processing Dependency: libstdc++(x86-64) = 4.4.4-13.el6 for package: libstdc++-devel-4.4.4-
13.el6.x86 64
 -> Finished Dependency Resolution
            age: libstdc++-devel-4.4.4-13.el6.x86 64 (ol6 latest)
            Requires: libstdc++(x86-64) = 4.4.4-13.e16
Installed: libstdc++-4.4.6-4.e16.x86_64 (@anaconda-OracleLinuxServer-201206261930.x86_64/6.3)
               libstdc++(x86-64) = 4.4.6-4.el6
            Available: libstdc++-4.4.4-13.el6.x86 64 (ol6 latest)
                libstdc++(x86-64) = 4.4.4-13.el6
           Available: libstdc++-4.4.5-6.el6.x86_64 (ol6_latest)
                libstdc++(x86-64) = 4.4.5-6.el6
           Available: libstdc++-4.4.6-3.el6.x86_64 (ol6_latest)
                libstdc++(x86-64) = 4.4.6-3.el6
 You could try using --skip-broken to work around the problem
You could try running: rpm -Va --nofiles -nodigest
```

Yum tries to install an old version of libstdc++-devel. We try to get the latest.

[root@11oel63 ~]# yum install libstdc++-devel

Ok.

[root@11oel63 ~]# yum install gcc-c++

Ok.

We check the installed packages with rpm -qa

```
[root@11oe163 ~]# rpm -qa | grep libstdc++-devel
libstdc++-devel-4.4.6-4.e16.x86 64
[root@11oe163 ~]# rpm -qa | grep gcc-c++
gcc-c++-4.4.6-4.e16.x86_64
```

We compare these to the missing packages:

Ok. Now we have installed at least a newer version of every library. We should be able to proceed with the installation.

#### Completing the installation



#### The content of the summary page was:



The installation log is written to /home/oracle/oraInventory/logs/install2012-08-08\_07-28-33PM.log

Now the installation succeeds.

#### OIMInstallationTutorial.docx

Oracle Eusion Middleware 11g SOA Suite Installation - Step 7 of 8	ADDILATION SERVER TYDE WEDLODIC SERVER
Gracie Pusion Miluteware 119 SOA Suite Installation - Step 7 of 6 _ x	Configuration File Message ×
Installation Progress	Window Menu
Skip Software Updates Progress Prerequisite Checks Completed	at /home/oracle/Oracle/SOA_Suite_11.1.1.6
Installation Location     Application Server     Installation Successful.     Starting execution of post install scripts     Execution	_summary.txt
Installation Progress     V	UK
Oracle Fusion Middleware	
Help         Sack         Next >         Einish         Cancel	

The installation of the SOA suite is now complete.

Sicherungspunkt 3 We make a Snapshot with the following comment: Java 1.6\_33 (Oracle JDK 64-bit) WLS 10.3.6 (Generic) SOA Suite 11.1.1.6

#### 8.1.4 **OIM Installation**

We proceed with the Quick Installation Guide <u>http://docs.oracle.com/cd/E23943\_01/install.1111/e10033/configtwo.htm#autoId3</u> at step 5.

We choose the download from 7.1.6.

We start the installation with the user oracle.

```
[oracle@lloel63 Diskl]$ pwd
/home/oracle/Downloads/iam 11.1.1.5/Diskl
[oracle@lloel63 Diskl]$ /home/oracle/Downloads/iam_11.1.5/Diskl/runInstaller -jreLoc
/home/oracle/java/jdkl.6.0_33/jre
Starting Oracle Universal Installer...
Checking if CPU speed is above 300 MHz. Actual 2301 MHz Passed
Checking Temp space: must be greater than 150 MB. Actual 41995 MB Passed
Checking swap space: must be greater than 512 MB. Actual 5983 MB Passed
Checking monitor: must be configured to display at least 256 colors. Actual 16777216 Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2012-08-10_05-58-06PM. Please wait
...[oracle@lloel63 Diskl]$ Log: /home/oracle/oraInventory/logs/install2012-08-10_05-58-06PM.log
```

We provide the install screens.

## 20.11.2012 19:43:00

#### OIMInstallationTutorial.docx



The prerequisite check fails. We are not on a supported system.

Root Checking operating system certification Expected result: One of enterprise-5.4, enterprise-4, enterprise-5, redhat-5.4, redhat-4, redhat-5, SuSE-10, SuSE- 11 Actual Result: redhat-6.3	
Check complete. The overall result of this check is: Failed <<<<	
Problem: This Oracle software is not certified on the current operating system. Recommendation: Make sure you are installing the software on the correct platform. Checking recommended operating system packages Check complete. The overall result of this check is: Not executed <<<< Checking kernel parameters Check complete. The overall result of this check is: Not executed <<<< Checking Recommended glibc version Check complete. The overall result of this check is: Not executed <<<< Checking physical memory Expected result: 1024MB Actual Result: 5980MB	
check compreter the overall result of this check to, rassed	

At this point we decide to stop the installation on this machine because vital prerequisite checks failed.

OIMInstallationTutorial.docx

#### 8.1.5 Configuration of the OIM Server fails

After successful installation of the OIM on Linux 32-bit, we want to configure the OIM server. We fail and conclude that this step requires an OIM patch. This chapter documents the analysis.

# We follow the instructions at (<u>http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/oidonly.htm#CIHCCECI</u>). We check if the Admin Server is running at <u>http://192.168.178.12:7001/console</u>. We start the configuration wizard:



#### We provide the configuration dialog screens:

Oracle Ider	ntity Management Configuration - Step 1 of 9	Oracle Identity Management Configuration - Step 2 of 9			
Welcome	FUSION MIDDLEWARE 11	Components to Configure			
Velcome     Components to Configure     Database     WebLogic Admin Server     OIM Server     OIM Server     Configuration Summary     Configuration Progress     Configuration Complete	Welcome to Oracle Fusion Middleware 11p Oracle Identity Manager (OHM) Installer. For additional information and installation instructions, please refer to the Oracle Fusion Middleware Installation Guide for Oracle Identity Management. Before proceeding make sure that you have created the schemas for the suite(s) you want to install. For more information, refer to the Repository Creation Utility (RCU) chapter in the Oracle Fusion Middleware Enterprise Installation Guide. Ensure that a domain home is available. The domain can be created/extended by using WebLogic config wizard.	Weicome         Components to Configure         Database         WebLogic Admin Server         OIM Server         OIM Server         OIM Server         Configuration Summary         Configuration Complete			
( Help	<pre>     Einish Cancel     Einish Cancel     Elapsed Time: 1m 12s </pre>	Help <gack< td="">     Next&gt;     Einish     Cancel       Elapsed Time: 1m 575</gack<>			

## 20.11.2012 19:43:00

#### OIMInstallationTutorial.docx

Welcome       Connect_String:       120elS5_odd/vboxnet.1521.orcl         Database       Format: For a single host instance host portaxing reasons and population close of host population cl	Database				
Obtabase       Format For a single host instance host portare/comment         WebLogic Admin Server       OIM Schema Liser Name: OIM Schema Password:       DEV_OIM         OIM Schema Password:       DEV_OIM	Welcome Components to Configure	Connec <u>t</u> String:	12oel55_odd.v	boxnet:1521:orcl	
OIM Server     OIM Schema User Name:     DEV_OIM       Bl Publisher     OIM Schema Password:	Database WebLogic Admin Server		Format: For a sin host:port:service For Real Applicati host1:port1:insta instancename2@s	gle host instance name on Cluster Database ncenam e1^host2:port2: iervicename	
MDS Schema Passwgrd: welcome 1	OIM Server BI Publisher Configuration Summary Configuration Progress Configuration Complete	OIM Schema <u>U</u> ser Name: OIM Schema Pass <u>w</u> ord: Select different database MD <u>S</u> Connect String: MDS Schema User Name:	DEV_OIM 	/_OIM 	
		MDS Schema Passw <u>o</u> rd:	•••••	welcome1	

Oracle Identity Management Configuration - Step 4 of 9 WebLogic Admin Server Welcome Components to Configure Database WebLogic Admin Server WebLogic Admin Server URL: 13://192.168.178.12: OIM Server weblogi UserName: k Bl Publisher welocme1 Password Configuration Summary Configuration Progress Configuration Complete Enter the WebLogic administrator password of the domain in which OIM application is deployed 4 Einish Cancel <<u>Back</u> Next > Help d Time: 11m 57

## 192.168.56.12:7001

Oracle Identity Management nfiguration - Step 5 of 9 e Identity Manageme **BI Publisher OIM Server** Welcome Welcome onfigure BI Publisher OIM Administrator welcome1X Components to Configur Components to Configure • • • • • • • • • BI <u>P</u>ublisher URL: L Database Database WebLogic Admin Server ••••• WebLogic Admin Server Confirm Password OIM Server OIM Server BI Publishe BI Publisher http://12oel55\_odd.vboxnet:14000 OIM HTTP URL Configuration Summary Configuration Summary velcome1X ..... Configuration Progress KeyStore <u>P</u>assword Configuration Progress Configuration Complete Configuration Complete Confirm KeyStore ..... LDAP sync synchronizes Oracle Identity Manager users, roles, role membership and role hierarchy to a LDAP directory. Any direct changes in the directory will be reconciled back to Oracle Identity Manager. Enter the Password for the System Administrator(xelsysadm). Valid Passwords must contain at least 6 characters, must begin with an alphabetic character, and include at least one number, one uppercase letter and one lowercase letter. Password cannot contain firstname, lastname and loginname of OIM. • • • Help <<u>Back</u> <u>Next</u>> <u>Fini</u> Cancel Help < <u>B</u>ack <u>N</u>ext > <u>F</u>in Cancel Elapsed Time: 14m 12s

welcome1X



We save the response file to /opt/oracle/FMW\_OIM\_11.1.1.5\_configuration\_response.txt The configuration process fails. We consult the logfile at /home/oracle/app/oraInventory/logs/install2012-08-12\_04-36-11PM.log



There is no indication in the logfile while this step failed. The Admin Server needed reboot, so we reboot it. But we don't have the option to retry this step.

Next steps:

Go back to Sicherheitspunkt 3, Reboot the Admin Server and try again. Fails with the same Error.

Go back to Sicherheitspunkt 3, Reboot Admin Server and make sure that the Nodemanager is Running.

We follow the instructions at <a href="http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/start\_stop.htm#CHDDIFCD">http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/start\_stop.htm#CHDDIFCD</a>

We start the nodemanager in a separate shell:

```
[oracle@12oel55_odd bin]$ pwd
/opt/oracle/Middleware01/wlserver_10.3/server/bin
[oracle@12oel55_odd bin]$ ./startNodeManager.sh
```

We start WLS in a separate shell. First we create a boot.properties file to circumvent the password challenge.

```
[oracle@12oel55_odd security]$ pwd
/opt/oracle/Middleware01/user_projects/domains/base_domain/servers/AdminServer/security
[oracle@12oel55 odd security]$ cat boot.properties
# Generated by Configuration Wizard on Fri Aug 10 19:42:40 CEST 2012
username=weblogic
password=welcome1
```

We start WLS as before, but this time we don't have to provide a user/password combination.

```
[oracle@12oel55_odd base_domain]$ pwd
/opt/oracle/Middleware01/user_projects/domains/base_domain
[oracle@12oel55_odd base_domain]$ ./startWebLogic.sh
```

We also verify that the Admin Server can see the the nodemanager.

Changes required:

-Enable SSL-Port in the Admin Server

-Disable Host-Name-Verification in the Admin Server

-Restart the Admin Server.

We start the installer again.

In Step 4 we choose 192.168.56.12:7001 for the Admin Server address. The configuration fails again. We look into the logfile of the Admin Server:

####<Aug 13, 2012 5:04:13 PM CEST> <Warning> <Management> <localhost.localdomain> <AdminServer> <[ACTIVE] ExecuteThread: '0' for queue: 'weblogic.kernel.Default (self-tuning)'> <weblogic> <> <11dldef534ealbe0:5b3e03e5:139207d9af6:-8000-00000000000000c> <1344870253613> <BEA-141239> <<mark>The</mark> dynamic attribute DBPasswordEncrypted on oracle.iam.platform.auth.providers.wls.OIMAuthenticationProviderMBeanImpl@525b85e0([base\_domain]/SecurityCo /AuthenticationProviders[OIMAuthenticationProvider]) has /Realms[myrealm] nfiguration base domain] anged. This may require redeploying or rebooting configured entities> ####<Aug 13, 2012 5:04:13 PM CEST> <Warning> <Management> <localhost.localdomain> <AdminServer> <[ACTIVE]
ExecuteThread: '0' for queue: 'weblogic.kernel.Default (self-tuning)'> <weblogic> <> <11dldef534ealbe0:5b3e03e5:139207d9af6:-8000-00000000000000c> <1344870253617> <BEA-141238> <A non-dynamic change has been made which affects the server AdminServer. This server must be rebooted in order to consume change.> ####<Aug 13, 2012 5:04:13 PM CEST> <Info> <Deployer> <localhost.localdomain> <AdminServer> <[ACTIVE] ExecuteThread: '0' for queue: 'weblogic.kernel.Default (self-tuning)'> <weblogic> <> <11dldef534ea1be0:5b3e03e5:139207d9af6:-8000-0000000000000c> <1344870253819> <BEA-149038> <Initiating Module-FMWDFW : [Deployer:149026] redeploy application Module-FMWDFW on oim server1,AdminServer,soa\_server1.> ####<Aug 13, 2012 5:04:14 PM CEST> <Info> <Deployer> <localhost.localdomain> <AdminServer> <[ACTIVE]
ExecuteThread: '2' for queue: 'weblogic.kernel.Default (self-tuning)'> <<WLS Kernel>> <> <11d1def534ea1be0:5b3e03e5:139207d9af6:-8000-00000000000001d> <1344870254181> <BEA-149171> <<mark>Deferred</mark> eployment task: [Deployer:149026]redeploy application im\_server1,AdminServer,soa\_server1.>

####<Aug 13, 2012 5:04:14 PM CEST> <Info> <DeploymentService> <localhost.localdomain> <AdminServer>
<[ACTIVE] ExecuteThread: '2' for queue: 'weblogic.kernel.Default (self-tuning)'> <<WLS Kernel>> <>
<11dldef534ealbe0:5b3e03e5:139207d9af6:-8000-000000000000le> <1344870254197> <BEA-290063> <commit</pre>

It seems that the configuration process fails because a restart is required and the wizard does not initiate a restart. However it was initiating redeployment previously. Maybe WLS displays a different behavior here, compared to the previous version 10.3.5, i.e. previously redeployment could have been sufficient.

Next steps:

-Try to install WLS 10.3.5 and let the domain run with this version by changing the WL\_HOME variable in

/opt/oracle/Middleware01/user\_projects/domains/base\_domain/bin/setDomainEnv.sh

WL\_HOME="/opt/oracle/Middleware01/wlserver\_10.3"
export WL\_HOME

We try to start WLS but it fails.

<aug 14,="" 2012="" 9:16:02="" cest="" pm=""> <info> <management> <bea-141107> <version: 10.3.5.0="" apr<="" fri="" server="" th="" weblogic=""></version:></bea-141107></management></info></aug>
1 20:20:06 PDT 2011 1398638 >
<aug 14,="" 2012="" 9:16:04="" cest="" pm=""> <error> <management> <bea-141244> &lt;<mark>Schema validation errors while parsing</mark></bea-141244></management></error></aug>
/opt/oracle/Middleware01/user_projects/domains/base_domain/config/config.xml - Expected elements 'auto-
jdbc-connection-close@http://xmlns.oracle.com/weblogic/domain supported-
protocol@http://xmlns.oracle.com/weblogic/domain federation-
services@http://xmlns.oracle.com/weblogic/domain single-sign-on-
<pre>services@http://xmlns.oracle.com/weblogic/domain web-service@http://xmlns.oracle.com/weblogic/domain nm-</pre>
socket-create-timeout-in-millis@http://xmlns.oracle.com/weblogic/domain coherence-cluster-system-
resource@http://xmlns.oracle.com/weblogic/domain virtual-machine-
name@http://xmlns.oracle.com/weblogic/domain replication-ports@http://xmlns.oracle.com/weblogic/domain'
instead of 'data-source@http://xmlns.oracle.com/weblogic/domain' here in element
server@http://xmlns.oracle.com/weblogic/domain>
<aug 14,="" 2012="" 9:16:04="" cest="" pm=""> <critical> <weblogicserver> <bea-000362> <server failed.="" reason:<="" td=""></server></bea-000362></weblogicserver></critical></aug>
[Management:141245]Schema Validation Error in
/opt/oracle/Middleware01/user_projects/domains/base_domain/config/config.xml see log for details. Schema
validation can be disabled by starting the server with the command line option: -
Dweblogic.configuration.schemaValidationEnabled=false>
<aug 14,="" 2012="" 9:16:04="" cest="" pm=""> <notice> <weblogicserver> <bea-000365> <server changed="" failed="" state="" to=""></server></bea-000365></weblogicserver></notice></aug>
<aug 14,="" 2012="" 9:16:04="" cest="" pm=""> <error> <weblogicserver> <bea-000383> <a critical="" failed.="" server<="" service="" td="" the=""></a></bea-000383></weblogicserver></error></aug>
will shut itself down>
<aug 14,="" 2012="" 9:16:04="" cest="" pm=""> <notice> <weblogicserver> <bea-000365> <server changed="" state="" td="" to<=""></server></bea-000365></weblogicserver></notice></aug>
FORCE_SHUTTING_DOWN>

WLS 10.3.6 config.xml schema is not compatible with WLS 10.3.5 We try to boot WLS without schemaValidation by edititing setDomainEnv.sh. We add the line:

The server boots. We shutdown, remove the line and boot again. The server fails again with the same failure. We try the configuration with schema validation disabled.

The configuration fails with the same error as before.

Conclusion: Switching the domain, which was previously installed as WLS 10.3.6 to WLS 10.3.5 via the environment, does not solve the problem.

Next steps:

We have to go back to Sicherungspunkt 1.

• uninstall WLS 10.3.6

- rename Middleware01
- create new Middleware01
- install JDK
- install WLS 10.3.5
- Follow the steps form Chapter 3.5 on

After the configuration we run into the same error.

```
<Aug 17, 2012 2:49:00 PM CEST> <Warning> <Management> <BEA-141239> <The non-dynamic attribute
AuthenticationProviders on
weblogic.management.security.RealmMBeanImpl@5abccdbc([base domain]/SecurityConfiguration[base domain]/Realm
s[myrealm]) has been changed. This may require redeploying or rebooting configured entities>
<Aug 17, 2012 2:49:00 PM CEST> <Warning> <Management> <BEA-141238> <A non-dynamic change has been made
which affects the server AdminServer. This server must be rebooted in order to consume this change.>
<Aug 17, 2012 2:49:00 PM CEST> <Warning> <Management> <BEA-141239> <The non-dynamic attribute ControlFlag
on
weblogic.security.providers.authentication.DefaultAuthenticatorMBeanImpl@82d32223([base domain]/SecurityCon
figuration[base domain]/Realms[myrealm]/AuthenticationProviders[DefaultAuthenticator]) has been changed.
This may require redeploying or rebooting configured entities>
<Aug 17, 2012 2:49:00 PM CEST> <Warning> <Management> <BEA-141238> <A non-dynamic change has been made
made
```

We reboot the server and try the configuration again with the same values.

We run into the same problem again.

Conclusion: The version of number 10.3.6 of WLS is not the source of this problem.

Next step:

Instead of just starting the AdminServer and NodeManager, we start the whole stack as described in

http://docs.oracle.com/cd/E23943\_01/install.1111/e12002/start\_stop.htm#CHDDIFCD .

We Go back to Sicherheitspunkt 3, Reboot the AdminServer and follow the steps to boot the whole OIM Stack. (This step diverts from the instructions). This also does not solve the problem.

Further analysis: What is the command line of the installer:

```
/opt/oracle/Middleware01/Oracle_IDM1/bin/../oui/bin/runInstaller -weblogicConfig
ORACLE_HOME=/opt/oracle/Middleware01/Oracle_IDM1 -invPtrLoc
/opt/oracle/Middleware01/Oracle_IDM1/oraInst.loc -oneclick -Doracle.config.mode=true
```

The installer is a binary file. We assume that it calls wlst scripts during installation. Which of these scripts is it calling? Can the installer be called in verbose mode? The usage message of the installer:

```
[oracle@12oel55 odd bin]$ ./runInstaller
Starting Oracle Universal Installer...
Checking Temp space: must be greater than 150 MB.
                                                           Actual 6809 MB
                                                                                Passed
Checking swap space: must be greater than 500 MB.
                                                           Actual 1694 MB
                                                                                Passed
Checking monitor: must be configured to display at least 256 colors
                                                                                   Actual 16777216
                                                                                                         Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2012-08-17_05-00-49PM. Please wait ...[oracle@12oel55_odd bin]$ Log: /home/oracle/app/oraInventory/logs/install2012-08-17_05-00-49PM.log
The command line argument or the install mode specified is not valid.
Copyright (c) 2000, 2011, Oracle and/or its affiliates. All rights reserved.
Usage:
runInstaller [-mode] [-options] [(<CommandLineVariable=Value>)*]
Where mode include:
[Mode is a mandatory parameter. Only one mode can be specified.]
     -d, -deinstall
```

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Launches the installer in deinstall mode. -deinstall -silent For silent mode deinstall operations, the inputs can be a response file or a list of command line variable value pairs. Where options include: -help, --help, --usage Displays above usage. -invPtrLoc <inventory pointer file> Launches the installer with a custom inventory location. The invPtrLoc should point to a file which contains the following information. inventory\_loc=<inventory\_location> inst\_group=<group\_name> -response, -responseFile <response file> Specifies the response file and path to use. -jreLoc <location> Path where Java Runtime Environment is installed. OUI cannot be run without it. -logLevel <level> To filter log messages that have a lesser priority level than <level>. Valid options are: severe, warning, info, config, fine, finer, finest, basic, general, detailed, trace. The use of basic, general, detailed, trace is deprecated. -debug For getting the debug information from OUI. Allowing silent mode installation into a non-empty directory. -force -printdiskusage Log debug information for disk usage. -printmemory Path where Java Runtime Environment is installed. OUI cannot be run without it. -printtime Log debug information for time usage. -waitforcompletion For windows. setup.exe will wait for completion instead of spawning the java engine and exiting. -noconsole For suppressing display of messages to console. Console is not allocated. -ignoreSysPrereqs For ignoring the results of the system pre-requisite checks. -executeSysPrereqs Execute system pre-requisite checks and exit. -paramFile <location of file> Specify location of oraparam.ini file to be used by OUI. -novalidation Disables the validations, can be invoked along with GUI or silent mode. -nodefaultinput Disables the default computation of values (pre-populating of values when screen is loaded) in GUI install. -nocheckForUpdates To disable all updates checking -updatesDir To specify the directory where latest updates are downloaded. This could be used in disconnected mode. Command Line Variables Usage: Command line variables are specified using <name=value>; for example: session: | session:compName: | session:compName:version: ]variableName=" valueOfVariable"] Installer variables are specified using: varName=value Ex: ORACLE HOME=<value> OUI Session variables are specified using: session:varName=value Ex: session:VARIABLE\_NAME=<value> OUI Component variables are specified using: session:compInternalName:[Version:]varName Ex 1: session:oracle.comp1:1.0.1:varName=<value> Ex 2: session:oracle.comp1:varName=<value> The lookup order is compInternalName:Version:varName, then compInternalName:varName

We try to call the installer with debug settings and response file in silent mode.

[oracle@12oe155 odd bin]\$ pwd /opt/oracle/Middleware01/Oracle\_IDM1/bin ./config.sh -debug -silent -response /opt/oracle/Middleware01/Oracle\_IDM1/bin/OIM\_response.txt

Calling the installer in debug mode:

```
[oracle@12oe155_odd bin]$ ./config.sh -debug -response
/opt/oracle/Middleware01/Oracle_IDM1/bin/OIM_response.txt
Starting Fusion Middleware Configuration Wizard
ORACLE_HOME set as /opt/oracle/Middleware01/Oracle_IDM1
```

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PATH set as /opt/oracle/Middleware01/Oracle\_IDM1/bin:/usr/java/latest/bin:/home/oracle/app/oracle/product/TimesTen/tt11 21/bin:/home/oracle/app/oracle/product/TimesTen/tt1121/quickstart/sample\_code/oci:/home/oracle/app/oracle/p roduct/TimesTen/tt1121/quickstart/sample code/odbc:/home/oracle/app/oracle/product/TimesTen/tt1121/quicksta rt/sample\_code/odbc/xla:/home/oracle/app/oracle/product/TimesTen/ttl121/quickstart/sample\_code/jdbc:/home/oracle/app/oracle/product/TimesTen/ttl121/quickstart/sample\_code/odbc\_drivermgr:/home/oracle/app/oracle/product/TimesTen/ttl121/quickstart/sample\_code/proc:/home/oracle/app/oracle/product/TimesTen/ttl121/quickstart/ sample\_code/ttclasses:/home/oracle/app/oracle/product/TimesTen/tt1121/quickstart/sample\_code/ttclasses/xla: /home/oracle/app/oracle/product/TimesTen/ttl121/ttoracle home/instantclient 11 1:/home/oracle/app/oracle/pr oduct/TimesTen/ttll21/ttoracle home/instantclient 11 1/sdk:/home/oracle/app/oracle/product/TimesTen/ttll21/ 3rdparty/ant/bin:/usr/java/latest/bin:/usr/kerberos/bin:/usr/local/bin:/usr/bin:/bin:/usr/X11R6/bin:/home/o racle/app/oracle/product/11.2.0/dbhome\_2/bin:/home/oracle/bin:/home/oracle/app/oracle/product/11.2.0/dbhome 2/bin LD\_LIBRARY\_PATH set as /opt/oracle/Middleware01/Oracle\_IDM1/lib:/home/oracle/app/oracle/product/11.2.0/dbhome\_2/lib Starting Oracle Universal Installer... Checking Temp space: must be greater than 150 MB. Actual 6444 MB Passed Actual 1694 MB Checking swap space: must be greater than 500 MB. Passed Checking monitor: must be configured to display at least 256 colors. Actual 16777216 Passed Preparing to launch Oracle Universal Installer from /tmp/OraInstall2012-08-17\_06-26-20PM. Please wait ... LD\_LIBRARY\_PATH environment variable : Total args: 32 Command line argument array elements .. Arg:0:/tmp/OraInstall2012-08-17 06-26-20PM/jre/bin/java: Arg:1:-Doracle.installer.library\_loc=/tmp/OraInstall2012-08-17\_06-26-20PM/oui/lib/linux: Arg:2:-Doracle.installer.oui loc=/tmp/OraInstall2012-08-17 06-26-20PM/oui: Arg:3:-Doracle.installer.bootstrap=TRUE: Arg:4:-Doracle.installer.startup\_location=/opt/oracle/Middleware01/Oracle\_IDM1/oui/bin: Arg:5:-Doracle.installer.jre\_loc=./../jre: Arg:6:-Doracle.installer.nlsEnabled="TRUE": Arg:7:-Doracle.installer.prereqConfigLoc=/tmp/OraInstall2012-08-17\_06-26-20PM/prereq : Arg:8:-Doracle.installer.unixVersion=2.6.32-300.21.1.el5uek: Arg:9:-mx512m: Arg:10:-XX:MaxPermSize=256m: Arg:11:-cp: Arg:12:/tmp/OraInstall2012-08-17\_06-26-20PM::/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/glassfish.jaxb\_1.0.0.0\_2-1-12.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/message.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/xmlparserv2.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/enginehelp.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/install.properties:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/dms.jar:/tmp/OraInstall2012-20PM/ext/jlib/ojdl2.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/ojdl2.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/oneclick.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/glassfish.jaxb.xjc\_1.0.0.0\_2-1-12.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/commonutils.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/ojdl-log4j.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/ojdl.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/engine.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/oneofftool.jar:/tmp/OraInstall2012-08-17 06-26-20PM/ext/jlib/ofetVolumeInfo.dll:/tmp/OraInstall2012-08-17 06-26-20PM/ext/jlib/ojdbc6dms.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/log-config.xml:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/SysInfo.dll:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/osdt\_core.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/ext/jlib/WindowsFolders.jar:/tmp/OraInstall2012-08-17 06-26-20PM/ext/jlib/idminstallhelp.jar:/tmp/OraInstall2012-08-17 06-26-20PM/oui/jlib/OraInstaller.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/oneclick.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/xmlparserv2.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/share.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/OraInstallerNet.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/emocmutl.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/emCfg.jar:/tmp/OraInstall2012-08-20PM/oui/jlib/emotemati.jar./tmp/oraInstall2012-08-17\_06-26-20PM/oui/jlib/emotg.jar./tmp/oraInstall2012-08-20PM/oui/jlib/jsch.jar:/tmp/oraInstall2012-08-17\_06-26-20PM/oui/jlib/ssh.jar:/tmp/oraInstall2012-08-17\_06-26-20PM/oui/jlib/remoteinterfaces.jar:/tmp/oraInstall2012-08-17\_06-26-20PM/oui/jlib/http\_client.jar:/tmp/oraInstall2012-08-17\_06-26-20PM/oui/jlib/DraSuiteInstaller.jar:/tmp/oraInstall2012-08-17\_06-26-20PM/oui/jlib/craSuiteInstaller.jar:/tmp/oraInstall2012-08-17\_06-26-20PM/oui/jlib/craSuiteInstaller.jar:/tmp/oraInstall2012-08-17\_06-26-20PM/oui/jlib/craSuiteInstaller.jar:/tmp/oraInstall2012-08-17\_06-26-20PM/OPatch/jlib/opatch.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/OPatch/jlib/opatchactions.jar:/tmp/OraInstall2012-08-17 06-26-20PM/OPatch/jlib/opatchprereq.jar:/tmp/OraInstall2012-08-17 06-26-20PM/OPatch/jlib/opatchutil.jar:/tmp/OraInstall2012-08-17 06-26-20PM/oui/jlib/InstImages.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/InstHelp.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/InstHelp\_de.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/InstHelp\_es.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/InstHelp fr.jar:/tmp/OraInstall2012-08-17 06-26-20PM/oui/jlib/InstHelp it.jar:/tmp/OraInstall2012-08-17 06-26-20PM/oui/jlib/InstHelp\_ja.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/InstHelp\_ko.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/InstHelp\_pt\_BR.jar:/tmp/OraInstall2012-08-17\_06-26-17\_06-26-20PM/oui/jlib/ojmisc.jar:/tmp/OraInstall2012-08-17\_06-26-

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20PM/oui/jlib/xml.jar:/tmp/OraInstall2012-08-17\_06-26-20PM/oui/jlib/srvm.jar:/tmp/OraInstall2012-08-17 06-26-20PM/oui/jlib/classes12.jar: Arg:13:oracle.sysman.oio.oioc.OiocOneClickInstaller: Arg:14:UnixGroups="{oracle,davfs2,vboxsf,}": Arg:15:-scratchPath: Arg:16:/tmp/OraInstall2012-08-17\_06-26-20PM: Arg:17:-sourceType: Arg:18:network: Arg:19:-timestamp: Arg:20:2012-08-17 06-26-20PM: Arg:21:-loglevel: Arg:22:finest: Arg:23:-weblogicConfig: Arg:24:ORACLE\_HOME=/opt/oracle/Middleware01/Oracle\_IDM1: Arg:25:-invPtrLoc: Arg:26:/opt/oracle/Middleware01/Oracle IDM1/oraInst.loc: Arg:27:-oneclick: Arg:28:-debug: Arg:29:-response: Arg:30:/opt/oracle/Middleware01/Oracle\_IDM1/bin/OIM\_response.txt: Arg:31:-Doracle.config.mode=true: Initializing Java Virtual Machine from /tmp/OraInstall2012-08-17\_06-26-20PM/jre/bin/java. Please wait... [oracle@12oe155\_odd bin]\$ Log: /home/oracle/app/oraInventory/logs/instal12012-08-17\_06-26-20PM.log

During installation, the installer creates a temporary directory with a lot of configuration files, scripts, jars ini-files etc.

Presumably these are used during the process and control the installation. When we terminate the installer, these files get deleted.

Is it possible to manipulate the behavior of the installation here? We could try the following.

- Start the installer in GUI Mode with debug flag
- Make a copy of the temp directory
- Stop the installer

Further analysis reveals that these steps are not very promising since the installer fails already in the very first step and does not report any errors in the logfile, not even if the debug mode is enabled.

Instead we turn to the Oracle support page and find a patch, which we could apply and test.

#### 9 Conclusion

In this tutorial we went through the full installation of OIM on a Virtual Box appliance. We also installed the tools Design Console and JDeveloper. As it becomes obvious from studying the installation guides, the whole installation process is large, complex and time consuming. Although the documentation is detailed, a good understanding of the products involved is required to successfully complete this task. This may be due to the fact that we ran into several problems, despite following the installation instructions rigidly and sticking tightly to the certification matrix. As it turned out, the installation could not be completed without the application of patches that are only available through Oracle support. This can be called bad luck because the OIM 11gR2 release installs much easier without the requirement for patching, as a friend of mine reports. However after the successful installation, the system ran stable during initial testing. We excluded the setup of SSL and high availability configurations, which is an area for further study. It will be required in many real world scenarios. Another important point left open in this work, is an automatic boot configuration and we might have a look at it in a future blog post.