

Installation Oracle Enterprise Manager Cloud Control 12cR2 (12.1.0.2.0) inkl. December 2012 Performance Patch Bundle

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1 Einleitung

Das Dokument beschreibt die Installation einer Cloud Control Umgebung bei Es wurde initial 12.1.0.1 BP1 installiert. Anschließend wurde der August 2012 Performance Patch installiert und im Oktober fand der Upgrade auf 12.1.0.2 (EM 12cR2) statt und im Dezember der Patch auf den Performance Patch Bundle December 2012.

2 Spezifikation

Das Produkt Oracle Enterprise Manager – Cloud Control 12c ist der Nachfolger von Oracle Enterprise Manager – Grid Control 11g.

URL:

<https://hostname:7802/em/>

Stage-Binaries:

/OraBase/Software/oracle/GridControl/linux_12.1.0.2_CC12cR2

Middleware Home Location:

/OraBase/oms12c/Middleware_12cR2

OMS Instance Base Location:

/OraBase/oms12c/Middleware_12cR2/gc_inst

HOMEs:

WLS Home: /OraBase/oms12c/Middleware_12cR2/wlserver_10.3

OMS Home: /OraBase/oms12c/Middleware_12cR2/oms

OMS Agent Home: /OraBase/oms12c/Middleware_12cR2/agent/core/12.1.0.2.0

OMS Agent Instance Home: /OraBase/oms12c/Middleware_12cR2/agent/agent_inst

OMS Agent Base: /OraBase/oms12c/Middleware_12cR2/agent

non-OMS Agent Home: /OraBase/agent/agent12c/core/12.1.0.2.0

non-OMS Agent Base: /OraBase/agent/agent12c

non-OMS Agent Instance Home: /OraBase/agent/agent12c/agent_inst

OMS Directory Structure:

```
<middleware_home>
|_____wlserver_10.3
|_____jdk16
|_____oms
|_____plugins
|_____oracle.sysman.db.oms.plugin_12.1.0.1.0
|_____oracle.sysman.emas.oms.plugin_12.1.0.1.0
|_____oracle.sysman.mos.oms.plugin_12.1.0.1.0
|_____agent
|_____plugins
|_____oracle.sysman.db.agent.plugin_12.1.0.1.0
|_____oracle.sysman.db.discovery.plugin_12.1.0.1.0
|_____oracle.sysman.emas.agent.plugin_12.1.0.1.0
|_____oracle.sysman.emas.discovery.plugin_12.1.0.1.0
|_____core
|_____12.1.0.1.0
|_____agent_inst
|_____sbin
|_____agentimage.properties
|_____gc_inst
|_____Oracle_WT
```

```
| ____ oracle_common  
| ____ utils  
| ____ logs  
| ____ modules  
| ____ user_project  
| ____ ocm.rsp  
| ____ registry.dat  
| ____ domain-registry.xml  
| ____ registry.xml
```

3 Installation OMS

3.1 Repository Database Cleanup:

Vor der Installation von Cloud Control müssen eventuelle Reste einer früheren OEM Repository Installation aufgeräumt werden:

```
delete from SCHEMA_VERSION_REGISTRY where COMP_NAME='Metadata Services';

drop user sysman_mds cascade;

exec DBMS_AQADM.DROP_QUEUE_TABLE(queue_table=>'SYSMAN.MGMT_NOTIFY_QTABLE',force
=>TRUE);

EXEC sysman.emd_maintenance.remove_em_dbms_jobs;
EXEC sysman.setEMUserContext(' ',5);
DECLARE
CURSOR c1 IS
SELECT owner, synonym_name name
FROM dba_synonyms
WHERE table_owner = 'SYSMAN';
BEGIN
FOR r1 IN c1 LOOP
IF r1.owner = 'PUBLIC' THEN
EXECUTE IMMEDIATE 'DROP PUBLIC SYNONYM '||r1.name;
ELSE
EXECUTE IMMEDIATE 'DROP SYNONYM '||r1.owner||'.'||r1.name;
END IF;
END LOOP;
END;
/

DROP USER mgmt_view CASCADE;
DROP ROLE mgmt_user;
DROP USER sysman CASCADE;
DROP USER SYSMAN_MDS CASCADE;
```

3.2 OMS Installation:

```
./runInstaller -debug
```

Oracle Enterprise Manager Cloud Control 12c Installation - Step 1 of 9

My Oracle Support Details

ORACLE Enterprise Manager Cloud Control 12c

My Oracle Support Details

- Software Updates
- Oracle Inventory
- Prerequisite Checks
- Install Types
- Configuration Details
- Review
- Install Progress
- Finish

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

Email:


Easier for you if you use your My Oracle Support email address/username.

☐ I wish to receive security updates via My Oracle Support.

My Oracle Support Password:

Messages:

My Oracle Support Username/Email Address Not Specified

 You have not provided an email address.

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

Oracle Enterprise Manager Cloud Control 12c Installation - Step 2 of 9

Software Updates

ORACLE Enterprise Manager Cloud Control 12c

- My Oracle Support Details
- Software Updates**
- Oracle Inventory
- Prerequisite Checks
- Install Types
- Configuration Details
- Review
- Install Progress
- Finish

☒ Skip

☐ Search for Updates (Prerequisites, Critical Patches, Interim Patches, etc.)

☐ Local Directory

☒ My Oracle Support (Requires Internet Connection)

User Name

Password

Messages:

Oracle Enterprise Manager Cloud Control 12c Installation - Step 3 of 9

Oracle Inventory

ORACLE Enterprise Manager Cloud Control 12c

- My Oracle Support Details
- Software Updates
- Oracle Inventory**
- Prerequisite Checks
- Install Types
- Configuration Details
- Review
- Install Progress
- Finish

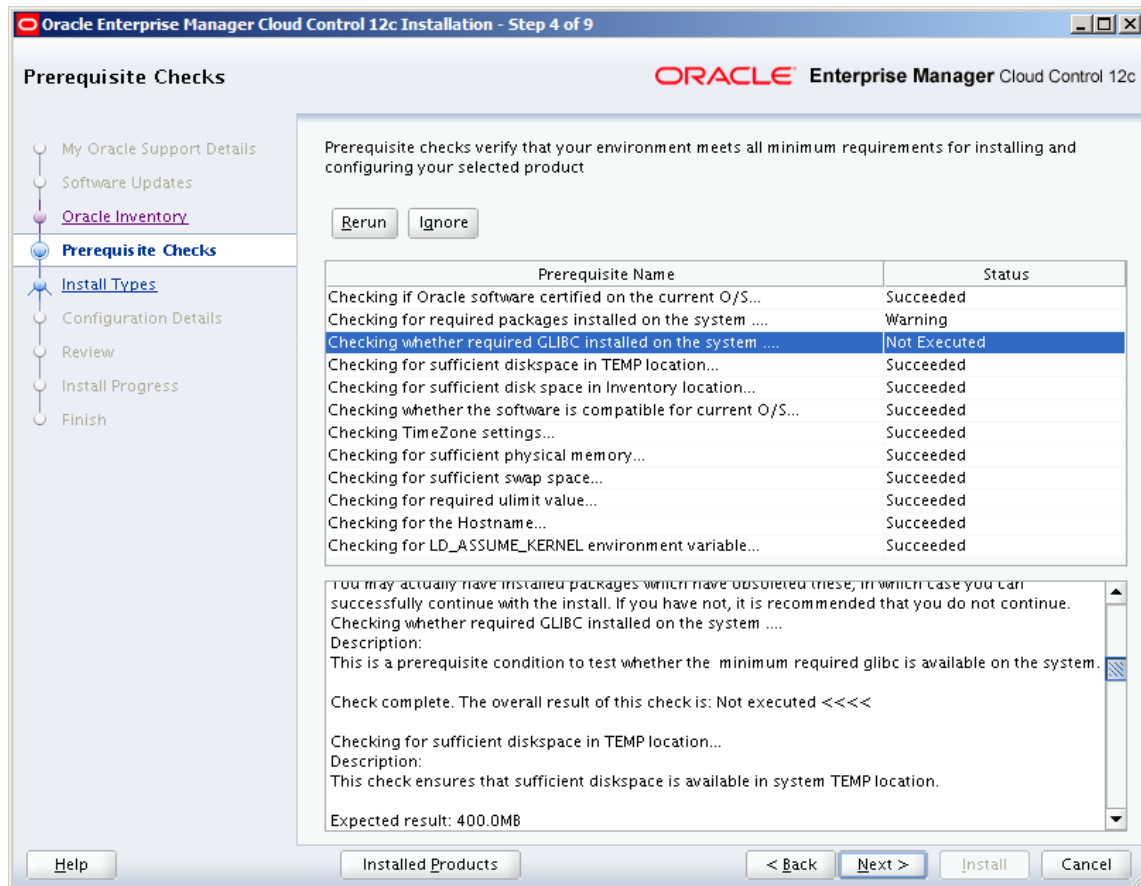
This seems to be the first Oracle product that you are installing on this host. Specify an inventory directory (also called the oraInventory directory) where all installer files and directories can be placed. This is a one-time activity. The installer automatically sets up subdirectories for each Oracle product that you install, to contain the inventory data. The inventory directory is different from the Oracle Home directory that is created for each Oracle product.

Inventory Location

Select the appropriate operating system group name that will own the Oracle inventory directory. The group you select must have 'write' permissions on the Oracle inventory directory.

Operating System Group

Messages:



Es wird eine Warnung bzgl. Package glibc-devel angezeigt. Bei SLES11 heit das Package etwas anders, ist aber bereits installiert. Deshalb kann die Warnung ignoriert werden.

```
rpm -qa --queryformat "%{NAME}-%{VERSION}-%{RELEASE}(%{ARCH}) \n" | grep glibc-devel
glibc-devel-32bit-2.11.1-0.34.1(x86_64)
glibc-devel-2.11.1-0.34.1(x86_64)

rpm -q -i glibc-devel-32bit-2.11.1-0.34.1
Name      : glibc-devel-32bit      Relocations: (not relocatable)
Version   : 2.11.1                Vendor: SUSE LINUX Products GmbH,
Nuernberg,
Germany
Release   : 0.34.1               Build Date: Mon 19 Dec 2011 08:54:57 PM
CET
Install Date: Wed 29 Feb 2012 10:25:02 AM CET      Build Host: gubaidulina
Group     : Development/Libraries/C and C++      Source RPM: glibc-2.11.1-
0.34.1.nosrc.rpm
Size      : 19383108              License: BSD 3-Clause; GPL v2 or
later; LGPL v
2.1 or later
Signature  : RSA/8, Mon 19 Dec 2011 08:55:37 PM CET, Key ID e3a5c360307e3d54
Packager   : http://bugs.opensuse.org
URL        : http://www.gnu.org/software/libc/libc.html
Summary    : Include Files and Libraries Mandatory for Development
Description :
These libraries are needed to develop programs which use the standard C
library.
Distribution: SUSE Linux Enterprise 11
```


Oracle Enterprise Manager Cloud Control 12c Installation - Step 5 of 13

Install Types

My Oracle Support Details
Software Updates
Oracle Inventory
Prerequisite Checks
Install Types
Select Plug-ins
WebLogic Server Configuration
Database Connection Details
Repository Configuration Details
Port Configuration Details
Review
Install Progress
Finish

ORACLE Enterprise Manager Cloud Control 12c

☒ Create a new Enterprise Manager System

☐ Simple

☒ Advanced

☐ Upgrade an existing Enterprise Manager System

☒ Two System Upgrade

☐ One System Upgrade

☐ Install software only
(Installs Software Bits now, configuration or upgrade can be done later)

Middleware Home Location:

Messages:

Oracle Enterprise Manager Cloud Control 12c Installation - Step 6 of 13

Select Plug-ins

My Oracle Support Details
Software Updates
Oracle Inventory
Prerequisite Checks
Install Types
Select Plug-ins
WebLogic Server Configuration
Database Connection Details
Repository Configuration Details
Port Configuration Details
Review
Install Progress
Finish

ORACLE Enterprise Manager Cloud Control 12c

Plugins provide management capabilities tailored to specific types of targets or solution areas and typically have their own lifecycle independent of the Enterprise Manager core platform. Select the management plugins you wish to configure.

Select	Name	Version
<input checked="" type="checkbox"/>	Oracle Database	12.1.0.2.0
<input checked="" type="checkbox"/>	Oracle Exadata	12.1.0.2.0
<input checked="" type="checkbox"/>	Oracle Fusion Middleware	12.1.0.2.0
<input checked="" type="checkbox"/>	Oracle MOS (My Oracle Support)	12.1.0.2.0
<input type="checkbox"/>	EMC CLARiiON Array	12.1.0.2.0
<input type="checkbox"/>	EMC Celerra Storage	12.1.0.2.0
<input type="checkbox"/>	EMC Symmetrix Array	12.1.0.2.0
<input type="checkbox"/>	Exalogic Elastic Cloud Infrastructure	12.1.0.1.0
<input type="checkbox"/>	IBM DB2 Database	12.1.0.2.0
<input type="checkbox"/>	Oracle Audit Vault	12.1.0.2.0
<input type="checkbox"/>	Oracle Chargeback and Capacity Planning	12.1.0.2.0
<input type="checkbox"/>	Oracle Cloud Application	12.1.0.2.0
<input type="checkbox"/>	Oracle Exadata Healthchecks	12.1.0.2.0
<input type="checkbox"/>	Oracle Fusion Applications	12.1.0.2.0
<input type="checkbox"/>	Oracle Siebel	12.1.0.2.0
<input type="checkbox"/>	Oracle Virtualization	12.1.0.2.0
<input type="checkbox"/>	Sybase ASE Database	12.1.0.2.0

Messages:

Oracle Enterprise Manager Cloud Control 12c Installation - Step 7 of 13

WebLogic Server Configuration Details

ORACLE Enterprise Manager Cloud Control 12c

- My Oracle Support Details
- Software Updates
- Oracle Inventory
- Prerequisite Checks
- Install Types
- Select Plug-ins
- WebLogic Server Configuration**
 - Database Connection Details
 - Repository Configuration Details
 - Port Configuration Details
 - Review
 - Install Progress
 - Finish

WebLogic Domain Name: GCDomain

WebLogic User Name: weblogic

WebLogic Password:

Confirm Password:

Node Manager User Name: nodemanager

Node Manager Password:

Confirm Password:

OMS Instance Base Location: /OraBase/oms12c/Middleware/gc_inst

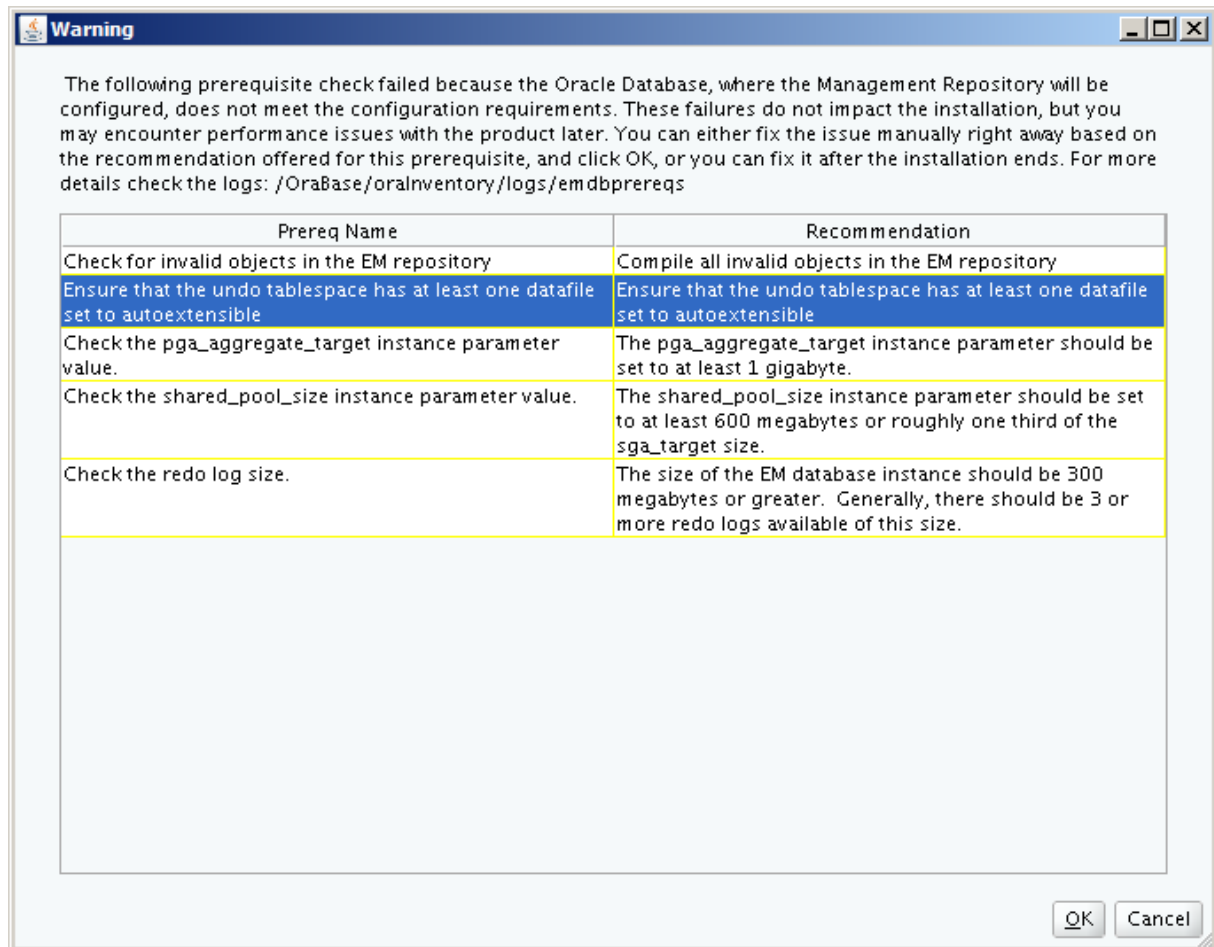
Messages:

Error

The following prerequisite check failed because the Oracle Database, where the Management Repository will be configured, does not meet the configuration requirements. To let the installer fix the issue automatically, click Yes. To fix the issue yourself, click No. For more details check the logs: /OraBase/orainventory/logs/emdbprereqs

Prereq Name	Recommendation
Check the CBO stats gathering job	Disable the stats gathering job

Yes



Die Empfehlungen werden hiermit umgesetzt. Der Undo-Tablespace wurde auf 2 GB vergrößert.

```
alter database drop logfile group 1;
alter database add logfile group 1
('/OraBase/ContRedoA/DB01/onlinelog/redo01a.log', '/OraBase/ContRedoB/DB01/onlinelog
/redo01b.log') size 300M;

alter database drop logfile group 2;
alter database add logfile group 2
('/OraBase/ContRedoA/DB01/onlinelog/redo02a.log', '/OraBase/ContRedoB/DB01/onlinelog
/redo02b.log') size 300M;

alter database drop logfile group 3;
alter database add logfile group 3
('/OraBase/ContRedoA/DB01/onlinelog/redo03a.log', '/OraBase/ContRedoB/DB01/onlinelog
/redo03b.log') size 300M;

alter database drop logfile group 4;
alter database add logfile group 4
('/OraBase/ContRedoA/DB01/onlinelog/redo04a.log', '/OraBase/ContRedoB/DB01/onlinelog
/redo04b.log') size 300M;

alter database drop logfile group 5;
alter database add logfile group 5
('/OraBase/ContRedoA/DB01/onlinelog/redo05a.log', '/OraBase/ContRedoB/DB01/onlinelog
/redo05b.log') size 300M;

alter database drop logfile group 6;
alter database add logfile group 6
('/OraBase/ContRedoA/DB01/onlinelog/redo06a.log', '/OraBase/ContRedoB/DB01/onlinelog
/redo06b.log') size 300M;

@?/rdbms/admin/utlrbp
```

```
alter system set pga_aggregate_target=1G;
```

Registration: *****

Oracle Enterprise Manager Cloud Control 12c Installation - Step 10 of 13

Port Configuration Details

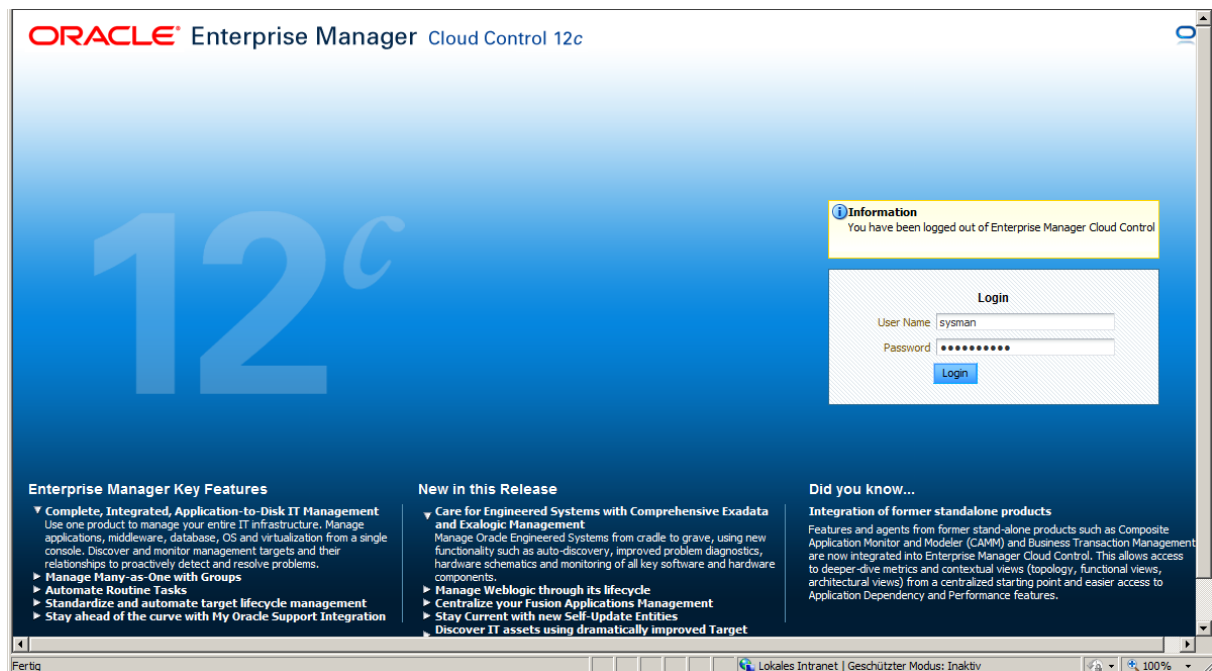
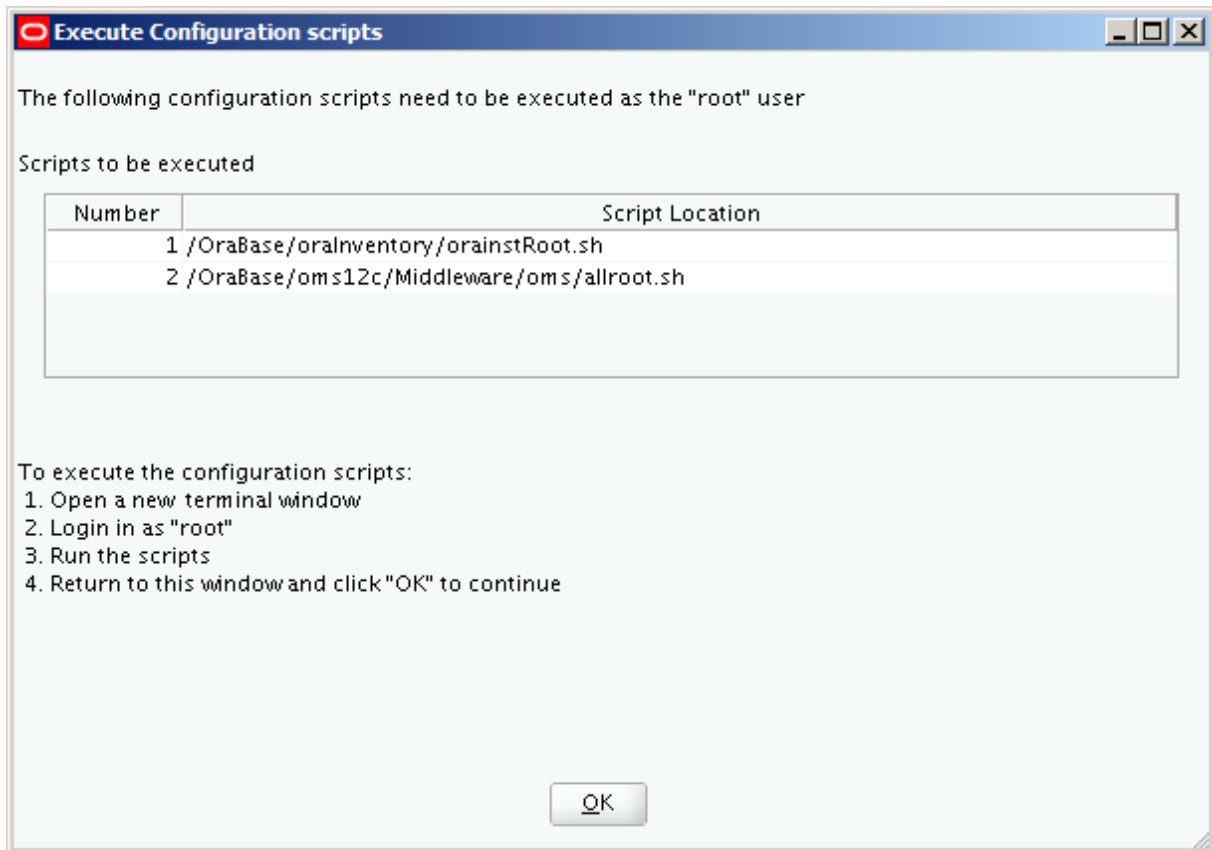
Configuration of the Enterprise Manager system requires the allocation of several ports to facilitate internal communication between system components as well as to provide access to the console via a browser. The table below contains the ports that will be allocated, along with the recommended port ranges, for each component. By default, the first available port in the specified port range has been chosen.

[Import staticports.ini file...](#)

Component Name	Recommended Port Range	Port
Enterprise Manager Upload Http Port	4889-4898	4889
Enterprise Manager Upload Http SSL Port	1159,4899-4908	4901
Enterprise Manager Central Console Http SSL Port	7799-7809	7802
Node Manager Http SSL Port	7401-7500	7403
Managed Server Http Port	7201-7300	7202
Enterprise Manager Central Console Http Port	7788-7798	7788
Oracle Management Agent Port	3872,1830-1849	3872
Admin Server Http SSL Port	7101-7200	7102
Managed Server Http SSL Port	7301-7400	7301

Messages:

Help Installed Products < Back **Next >** Install Cancel



3.3 Konfiguration OMS Software Library

Die OMS Software Library enthält Agent Install Binaries und ist für das Patching der Cloud-Control Komponenten notwendig.

Oracle Enterprise Manager Cloud Control 12c

Software Library: Administration

Warning: Software Library does not have an upload file location configured. At least one upload file location should be configured.

The administration console allows for configuring and administering Software Library storage locations.

Upload File Locations | Referenced File Locations

Configure storage locations that can be used for uploading files for Software Library entities.

Storage Type: **OMS Shared Filesystem**

Configure filesystem locations on OMS Host(s). These locations must be locally accessible by all the OMS instances, typically a mounted/shared location. You can optionally configure the common credential to be used by Software Library for reading/writing from/to a location.

Actions: View | Add... | Edit... | Migrate and Remove

No location has been configured yet. Use Add button for configuring a new location.

Add OMS Shared Filesystem Location

You are adding a Software Library location for the first time. Software Library entity metadata will be imported to Software Library from the Oracle Home.

Provide a name and file system location. The location should be accessible from all the Oracle Management Server(OMS) instances.

* Name: **OMS12c_SWLIB**

* Location: **/OraBase/oms12c/Middleware/OMS12c_SWLIB**

OK Cancel

Confirmation

The OMS Shared Filesystem location 'OMS12c_SWLIB: /OraBase/oms12c/Middleware/OMS12c_SWLIB' has been added successfully. A job 'SwLibRegisterMetadata_1341832276000' has been submitted for importing Software Library metadata from the Oracle Home. Perform provisioning and patching activities only after the job has completed successfully.

Software Library > Software Library: Administration

The administration console allows for configuring and administering Software Library storage locations.

Upload File Locations | Referenced File Locations

Configure storage locations that can be used for uploading files for Software Library entities.

Storage Type: **OMS Shared Filesystem**

Configure filesystem locations on OMS Host(s). These locations must be locally accessible by all the OMS instances, typically a mounted/shared location. You can optionally configure the common credential to be used by Software Library for reading/writing from/to a location.

Actions: View | Add... | Edit... | Migrate and Remove

Name	Status	Location	Associated Entities	Total Space	Available Space	Last Refreshed
OMS12c_SWLIB	Active	/OraBase/oms12c/Middleware/OMS12c_SWLIB/	Show	14.765 GB	2.61 GB	Mon Jul 09 13:11:16 CEST 2012

```
emctl status oms -details
Oracle Enterprise Manager Cloud Control 12c Release 12.1.0.1.0
Copyright (c) 1996, 2012 Oracle Corporation. All rights reserved.
Enter Enterprise Manager Root (SYSMAN) Password :
Console Server Host : host
HTTP Console Port   : 7788
HTTPS Console Port  : 7802
HTTP Upload Port    : 4889
HTTPS Upload Port   : 4901
OMS is not configured with SLB or virtual hostname
Agent Upload is locked.
OMS Console is locked.
Active CA ID: 1
Console URL: https://host:7802/em
Upload URL: https://host:4901/empbs/upload

WLS Domain Information
Domain Name       : GCDomain
```

Admin Server Host: host

Managed Server Information

Managed Server Instance Name: EMGC_OMS1

Managed Server Instance Host: host

3.4 Inactivation Timeout

Das Inactivation Timeout wird auf 8h erhöht.

emctl list properties

```
Oracle Enterprise Manager Cloud Control 12c Release 12.1.0.1.0
Copyright (c) 1996, 2012 Oracle Corporation. All rights reserved.
SYSMAN password:

LargeRepository=false
conn_leak_allowance_time=45
em.ip.ui.enable=true
em.loader.maxRecvThreads=20
em.loader.perfUpdatePeriod=60000
em.oms.dumpModules=omsThread,repos
em.security.xsrf_check_enabled=false
emConfigMBeanPort=0
em_email_address=
em_email_gateway=
em_from_email_address=
em_oob_crash=false
em_oob_shutdown=false
em_oob_startup=false
is_admin_server=true
log4j.additivity.metricCollectionEngine=false
log4j.appender.emlogAppender=org.apache.log4j.RollingFileAppender
log4j.appender.emlogAppender.Append=true
log4j.appender.emlogAppender.File=/OraBase/oms12c/Middleware/gc_inst/em/EMGC_OMS1/s
ysman/log/emoms.log
log4j.appender.emlogAppender.MaxFileSize=20000000
log4j.appender.emlogAppender.Threshold=WARN
log4j.appender.emlogAppender.layout=org.apache.log4j.PatternLayout
log4j.appender.emlogAppender.layout.ConversionPattern=%d [%t] %-5p %c{2} %M.%L - %m
log4j.appender.emtrcAppender=org.apache.log4j.RollingFileAppender
log4j.appender.emtrcAppender.Append=true
log4j.appender.emtrcAppender.File=/OraBase/oms12c/Middleware/gc_inst/em/EMGC_OMS1/s
ysman/log/emoms.trc
log4j.appender.emtrcAppender.MaxBackupIndex=10
log4j.appender.emtrcAppender.MaxFileSize=5000000
log4j.appender.emtrcAppender.layout=org.apache.log4j.PatternLayout
log4j.appender.emtrcAppender.layout.ConversionPattern=%d [%t] %-5p %c{2} %M.%L - %m
log4j.category.metricCollectionEngine=INHERIT
log4j.rootCategory=WARN, emlogAppender, emtrcAppender
oracle.sysman.db.isqlplusUrl=%ISQLPLUS_PROTOCOL%://%ISQLPLUS_HOST%:%ISQLPLUS_PORT%/
isqlplus/dynamic
oracle.sysman.db.isqlplusWebDBAUrl=%ISQLPLUS_PROTOCOL%://%ISQLPLUS_HOST%:%ISQLPLUS_
PORT%/isqlplus/dba/dynamic
oracle.sysman.emRep.dbConn.enableEncryption=TRUE
oracle.sysman.emRep.dbConn.statementCacheSize=50
oracle.sysman.emRep.repositoryMode=repository
oracle.sysman.emSDK.core.mos.mos_logout_url=https://login.oracle.com/pls/orasso/ora
sso.wwsso_app_admin.ls_logout
oracle.sysman.emSDK.core.mos.mos_url=https://support.oracle.com
oracle.sysman.emSDK.svlt.ConsoleServerHTTPSPort=4901
oracle.sysman.emSDK.svlt.ConsoleServerHost=host
oracle.sysman.emSDK.svlt.ConsoleServerName=host:4889_Management_Service
oracle.sysman.emSDK.svlt.ConsoleServerPort=4889
oracle.sysman.emSDK.svlt.EMConsoleServerHTTPSPort=7802
oracle.sysman.emSDK.svlt.EMConsoleServerPort=7788
oracle.sysman.emSDK.svlt.PublicServletEnabled=true
oracle.sysman.eml.mntr.emdRepPort=
oracle.sysman.eml.mntr.emdRepPwdEncrypted=false
oracle.sysman.eml.mntr.emdRepPwdSeed=doesntmatter
oracle.sysman.eml.mntr.emdRepSID=
oracle.sysman.eml.mntr.emdRepServer=
oracle.sysman.emmos.read_timeout=180
oracle.sysman.emmos.sr.read_timeout=30
oracle.sysman.secure.comm.EMConsoleLocked=true
```



```
oracle.sysman.secure.comm.UploadLocked=true
```

```
emctl set property -name oracle.sysman.eml.maxInactiveTime -value 480
```

Oracle Enterprise Manager Cloud Control 12c Release 12.1.0.1.0

Copyright (c) 1996, 2012 Oracle Corporation. All rights reserved.

SYSMAN password:

Property oracle.sysman.eml.maxInactiveTime for oms host:4889_Management_Service has been set to value 480

OMS restart is required to reflect the new property value

3.5 Logfile Maintenance

Quelle:

- 12c Cloud Control: How to Enable Log Rotation Policy to Automatically Delete Older GCDomain.log, EMGC_ADMINSERVER.log and access.log Files? [ID 1450535.1]
- http://docs.oracle.com/cd/E24628_01/doc.121/e24473/logging.htm#i1024110
- 12c Cloud Control: Steps to Locate and Manage the Various Logs/Trace files in a 12c OMS Installation [ID 1448308.1]

3.5.1 OMS Logfiles

Diese Files werden per Default rotiert und gelöscht.

```
emctl list properties -module logging
```

Parameter:

```
log4j.appender.emlogAppender.File=/OraBase/oms12c/Middleware/gc_inst/em/EMGC_OMS1/s  
ysman/log/emoms.log
```

```
log4j.appender.emlogAppender.MaxFileSize=20000000
```

```
log4j.appender.emtrcAppender.File=/OraBase/oms12c/Middleware/gc_inst/em/EMGC_OMS1/s  
ysman/log/emoms.trc
```

```
log4j.appender.emtrcAppender.MaxBackupIndex=10
```

```
log4j.appender.emtrcAppender.MaxFileSize=5000000
```

3.5.2 Löschung mittels Crontab

Diese Files werden zwar automatisch rotiert, aber nicht automatisch gelöscht. Deshalb ist ein Maintenance-Script nötig.

```
#!/bin/bash
```

```
# WLS/OHS:
```

```
find /OraBase/oms12c/Middleware_12cR2/gc_inst/WebTierIH1/diagnostics/logs/OHS/ohs1  
-name "access_log.*" -mtime +6 -type f -delete
```

```
find /OraBase/oms12c/Middleware_12cR2/gc_inst/WebTierIH1/diagnostics/logs/OHS/ohs1  
-name "ohs1-*.log" -mtime +6 -type f -delete
```

```
find /OraBase/oms12c/Middleware_12cR2/gc_inst/WebTierIH1/diagnostics/logs/OHS/ohs1  
-name "em_upload_http*log.*" -mtime +6 -type f -delete
```

```
# EMGC Adminserver
```

```
find
/OraBase/oms12c/Middleware_12cR2/gc_inst/user_projects/domains/GCDomain/servers/EMGC_ADMINSERVER/logs -name "EMGC_ADMINSERVER.out0*" -mtime +6 -type f -delete

find
/OraBase/oms12c/Middleware_12cR2/gc_inst/user_projects/domains/GCDomain/servers/EMGC_ADMINSERVER/logs -name "EMGC_ADMINSERVER-diagnostic-*.log" -mtime +6 -type f -delete

#EMGC_OMS

find
/OraBase/oms12c/Middleware_12cR2/gc_inst/user_projects/domains/GCDomain/servers/EMGC_OMS1/logs -name "EMGC_OMS1.out0*" -mtime +6 -type f -delete

find
/OraBase/oms12c/Middleware_12cR2/gc_inst/user_projects/domains/GCDomain/servers/EMGC_OMS1/logs -name "EMGC_OMS1-diagnostic-*.log" -mtime +6 -type f -delete
```

Das Lösch-Script ist in der oracle crontab aktiviert.

```
# OEM Cloud Control Logfile Management
0 1 * * * 0 1 * * * /OraBase/oms12c/Middleware_12cR2/control/
cloud_control_logfile_mgmt.sh
```

3.5.3 WLS Domain AdminServer Log Files

Hier wurde einmalig eine automatische Bereinigung gemäß Note 1450535.1 implementiert.

<https://host:7102/console>

Dies bezieht sich auf diese Files:

```
gc_inst/user_projects/domains/GCDomain/servers/EMGC_ADMINSERVER/logs/GCDomain.log*
```

```
gc_inst/user_projects/domains/GCDomain/servers/EMGC_ADMINSERVER/logs/EMGC_ADMINSERVER.log*
```

```
gc_inst/user_projects/domains/GCDomain/servers/EMGC_ADMINSERVER/logs/access.log*
```

4 Installation Agents

Derzeit sind Oracle Enterprise Manager – Grid Control 10g Agents installiert. Diese liegen im Filesystem /OraBase/agent10g. Im Zuge der Cloud Control 12c Agent installation werden diese Filesysteme umbenannt in /OraBase/agent, damit in Zukunft keine Versionsabhängigkeit im Filesystem enthalten ist.

4.1 Stoppen des 10g Agents

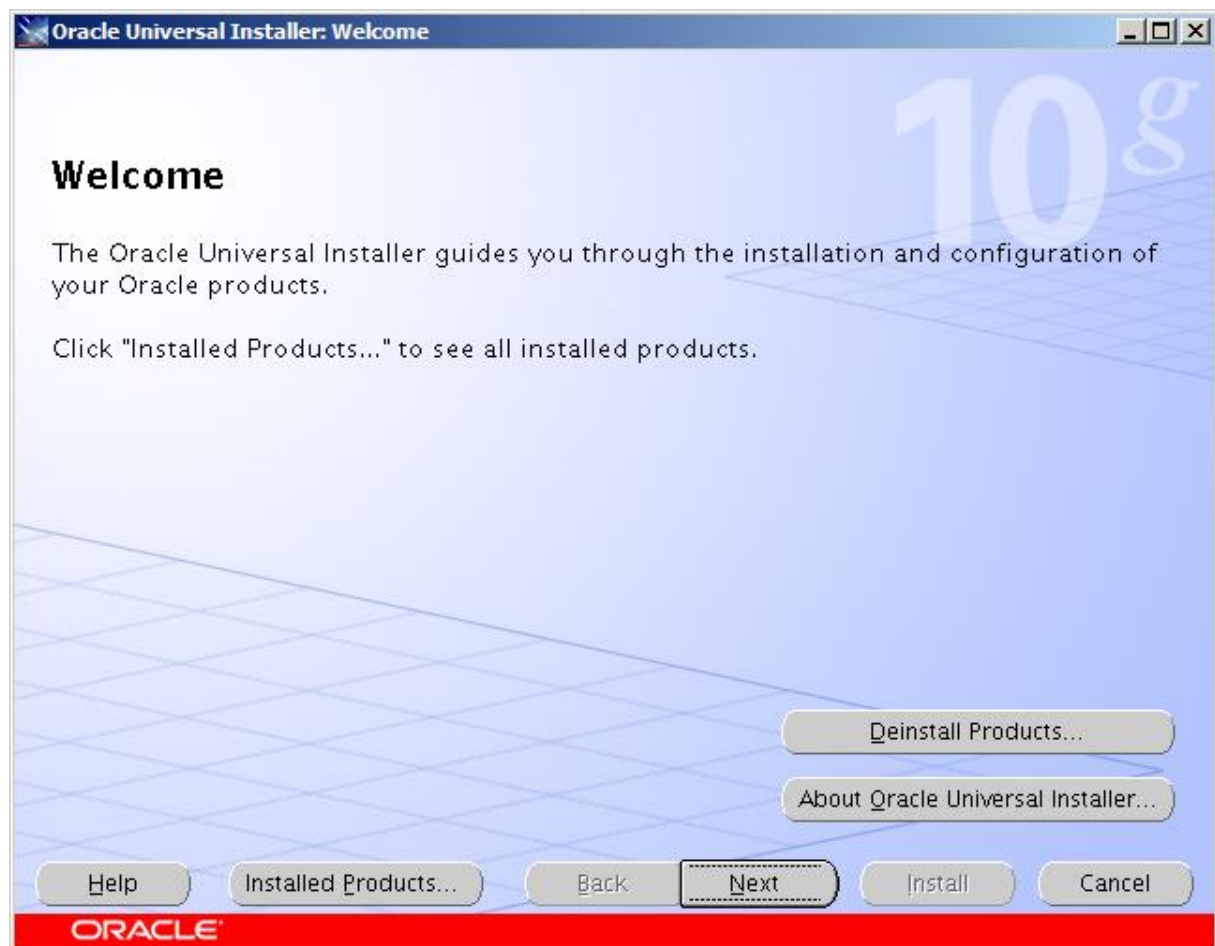
Der 10g Agent wird gestoppt:

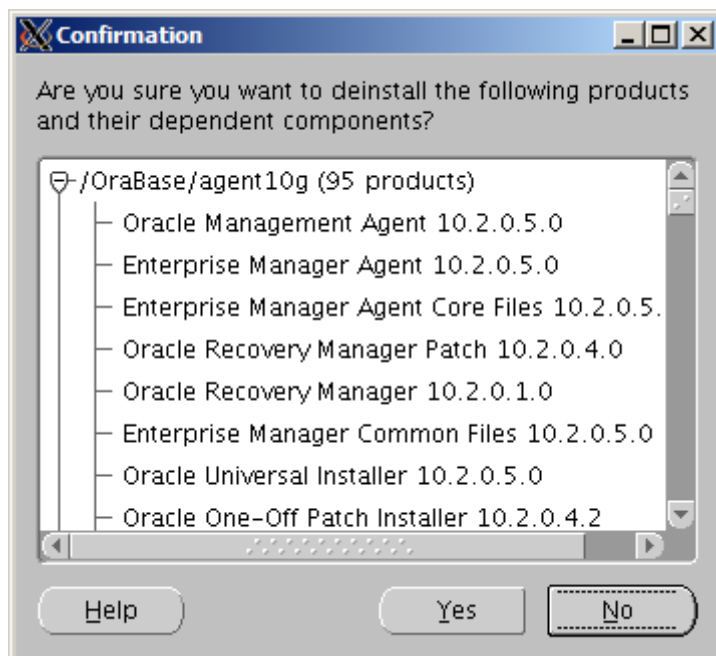
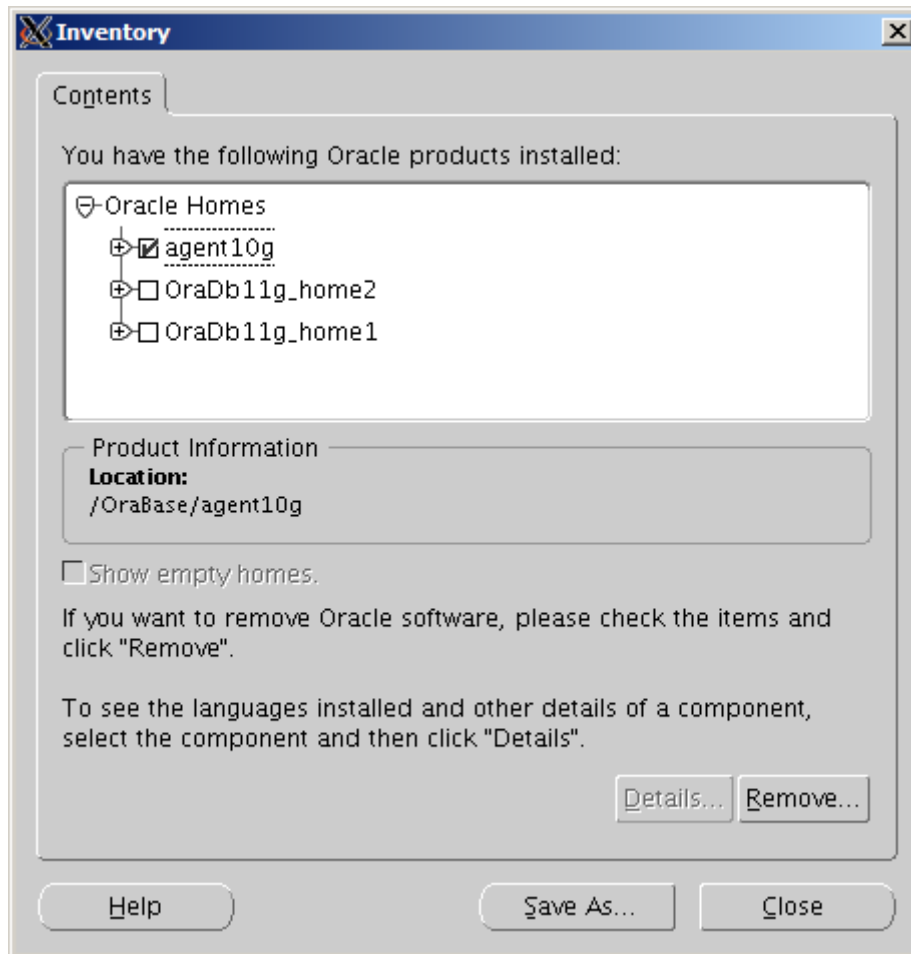
```
emctl stop agent
```

4.2 Löschen des 10g Agent Homes mit OUI

Das Oracle-Home des 10g Agents wird mittels Universal Installer entfernt.

```
/OraBase/agent10g/oui/bin/runInstaller
```





Übrig gebliebene Dateien können gelöscht werden:

4.3 Entfernen des Agents aus OMS 10g

4.4 Umbenennen des Mount-Points von agent10g zu agent

4.5 Installieren des 12c Agents

Achtung: Für SLES10 x86-64 Systeme ist nur der 32-bit Agent 12.1.0.1 und 12.1.0.2 zertifiziert! (Stand 31.10.2012)

Die Oracle Enterprise Manager Cloud Control 12c Agent Binaries werden im NFS Share /OraBase/Software abgelegt und stehen damit auf den Systemen für die Installation zur Verfügung.

Die Extrahierung der Agent Binaries aus der Software Library erfolgt einmalig:

http://docs.oracle.com/cd/E24628_01/install.121/e24089/install_agent_usng_rsp.htm#CEGGACJE

```
/OraBase/oms12c/Middleware_12cR2/oms/bin/emcli login -username=sysman
Enter password

Login successful

/OraBase/oms12c/Middleware_12cR2/oms/bin/emcli sync
Synchronized successfully

cd /OraBase/Software/oracle/GridControl/

mkdir agent_image_linux_x64_12.1.0.2

cd agent_image_linux_x64_12.1.0.2/

/OraBase/oms12c/Middleware/oms/bin/emcli get_agentimage -
destination=/OraBase/Software/oracle/GridControl/agent_image_linux_x64_12.1.0.2 -
platform="Linux x86-64" -version=12.1.0.2.0

unzip -d agent_install 12.1.0.1.0_AgentCore_226.zip

cd agent_install
```

Editieren des agent.rsp Response Files (Anpassung OMS Host/Port)

Auf den jeweiligen Target Nodes (Unmanaged Nodes):

Falls die Installation auf dem Target Node beim Prereq-Check abbricht, kann das Flag „-ignorePrereqs“ helfen. Mehr dazu weiter unten.

Linux x86-64:

```
mkdir -p /OraBase/agent/agent12c
/OraBase/Software/oracle/GridControl/agent_image_linux_x64_12.1.0.2/agent_install/a
gentDeploy.sh AGENT_BASE_DIR=/OraBase/agent/agent12c
RESPONSE_FILE=/OraBase/Software/oracle/GridControl/agent_image_linux_x64_12.1.0.2/a
gent_install/agent.rsp

# LSB conform init Scripts
/OraBase/Software/oracle/GridControl/agent_rc/copy_install_scripts.sh
Copy LSB-conform Startup Scripts
Backup original scripts
Done

sudo /OraBase/agent/agent12c/core/12.1.0.2.0/root.sh
```

Solaris:

```
mkdir -p /OraBase/agent/agent12c
/OraBase/Software/oracle/GridControl/agent_image_sol_sparc_12.1.0.2/agent_install/a
gentDeploy.sh AGENT_BASE_DIR=/OraBase/agent/agent12c
RESPONSE_FILE=/OraBase/Software/oracle/GridControl/agent_image_sol_sparc_12.1.0.2/a
gent_install/agent.rsp

sudo /OraBase/agent/agent12c/core/12.1.0.2.0/root.sh
```

Linux x86-32bit:

```
mkdir -p /OraBase/agent/agent12c
/OraBase/Software/oracle/GridControl/agent_image_linux_x86.12.1.0.2/agent_install/a
gentDeploy.sh AGENT_BASE_DIR=/OraBase/agent/agent12c
RESPONSE_FILE=/OraBase/Software/oracle/GridControl/agent_image_linux_x86.12.1.0.2/a
gent_install/agent.rsp

# LSB conform init Scripts
/OraBase/Software/oracle/GridControl/agent_rc/copy_install_scripts.sh
Copy LSB-conform Startup Scripts
Backup original scripts
Copy modified scripts
Done

sudo /OraBase/agent/agent12c/core/12.1.0.2.0/root.sh
```

Achtung:

Falls beim Pre-Req Check ein fehlendes Package gemeldet wird, muss überprüft werden, ob das Package einen anderen Namen hat:

```
Checking for libstdc++4.3; Not found.          Failed <<<<
```

```
rpm -qa --queryformat "%{NAME}-%{VERSION}-%{RELEASE}(%{ARCH})\n" |grep libstdc++
libstdc++4.3-devel-4.3.4_20091019-0.22.17(x86_64)
libstdc++4.3-devel-32bit-4.3.4_20091019-0.22.17(x86_64)
libstdc++3.3-3.3.3-11.9(x86_64)
libstdc++3.3-32bit-3.3.3-11.9(x86_64)
libstdc++-devel-4.3-62.198(x86_64)
libstdc++4.6-32bit-4.6.1_20110701-0.13.9(x86_64)
libstdc++4.6-4.6.1_20110701-0.13.9(x86_64)
```

In diesem Fall ist das Package libstdc++4.6 installiert. (SLES11 SP2) Die Pre-Req-Prüfung kann mit dem Flag "-ignorePrereqs" übergangen werden:

```
/OraBase/Software/oracle/GridControl/agent_image_linux_x64_12.1.0.1/agent_install/a
gentDeploy.sh AGENT_BASE_DIR=/OraBase/agent/agent12c
RESPONSE_FILE=/OraBase/Software/oracle/GridControl/agent_image_linux_x64_12.1.0.1/a
gent_install/agent.rsp -ignorePrereqs
```

EM 12c: Agent Installation on Suse11 fails at Pre-requisite check "Checking for libstdc++-4.1.0; Not found. Failed" [ID 1471398.1]

AGENT_BASE_DIR=/OraBase/agent/agent12c

```
<agent_base_directory>
|____core
|    |____12.1.0.1.0
|    |____plugins
|    |____plugins.txt
|    |____plugins.txt.status
|    |____agent_inst
```

```
| _____ sbin  
| _____ agentimage.properties
```

ACHTUNG:

Vor Ausführung von root.sh bitte dies ausführen: (Details siehe unten)

```
# LSB conform init Scripts  
/OraBase/Software/oracle/GridControl/agent_rc/copy_install_scripts.sh  
Copy LSB-conform Startup Scripts  
Backup original scripts  
Copy modified scripts  
Done
```

Dann:

root.sh:

```
/OraBase/agent/agent12c/core/12.1.0.2.0/root.sh  
  
Finished product-specific root actions.  
/etc exist  
  
Creating /etc/oragchomelist file...  
insserv: warning: script 'S12lockgcstartup' missing LSB tags and overrides  
insserv: warning: script 'S98gcstartup' missing LSB tags and overrides  
insserv: warning: script 'K99unlockgcstartup' missing LSB tags and overrides  
insserv: warning: script 'gcstartup' missing LSB tags and overrides  
insserv: warning: script 'lockgcstartup' missing LSB tags and overrides  
insserv: warning: script 'unlockgcstartup' missing LSB tags and overrides  
insserv: warning: current stop runlevel(s) (3 5) of script `unlockgcstartup'  
overwrites defaults (empty).  
insserv: Default-Start undefined, assuming default start runlevel(s) for script  
`unlockgcstartup'  
insserv: can not symlink(..../lockgcstartup, rc3.d/S12lockgcstartup): File exists  
insserv: can not symlink(..../gcstartup, rc3.d/S12gcstartup): File exists  
insserv: can not symlink(..../gcstartup, rc3.d/K01gcstartup): File exists  
insserv: can not symlink(..../unlockgcstartup, rc3.d/K01unlockgcstartup): File exists  
insserv: can not symlink(..../lockgcstartup, rc5.d/S12lockgcstartup): File exists  
insserv: can not symlink(..../gcstartup, rc5.d/S12gcstartup): File exists  
insserv: can not symlink(..../gcstartup, rc5.d/K01gcstartup): File exists  
insserv: can not symlink(..../unlockgcstartup, rc5.d/K01unlockgcstartup): File exists  
gcstartup 0:off 1:off 2:off 3:on 4:off 5:on 6:off  
Finished product-specific root actions.
```

Die Start/Stop Scripts sind leider nicht LSB kompatibel. Deshalb werden diese Warnungen angezeigt.

SR 3-5938370831: EM12c: agent root.sh gives insserv warnings - please fix

Aufgrund dieses Problems wurden LSB konforme init-Scripts erstellt:

Diese können vor der Ausführung von root.sh ersetzt werden:

```
# LSB conform init Scripts  
/OraBase/Software/oracle/GridControl/agent_rc/copy_install_scripts.sh  
Copy LSB-conform Startup Scripts  
Backup original scripts  
Copy modified scripts  
Done
```

Nach der Installation des Agents soll noch der Agent Patch (August 2012) installiert werden.
Siehe Punkt 6.1.

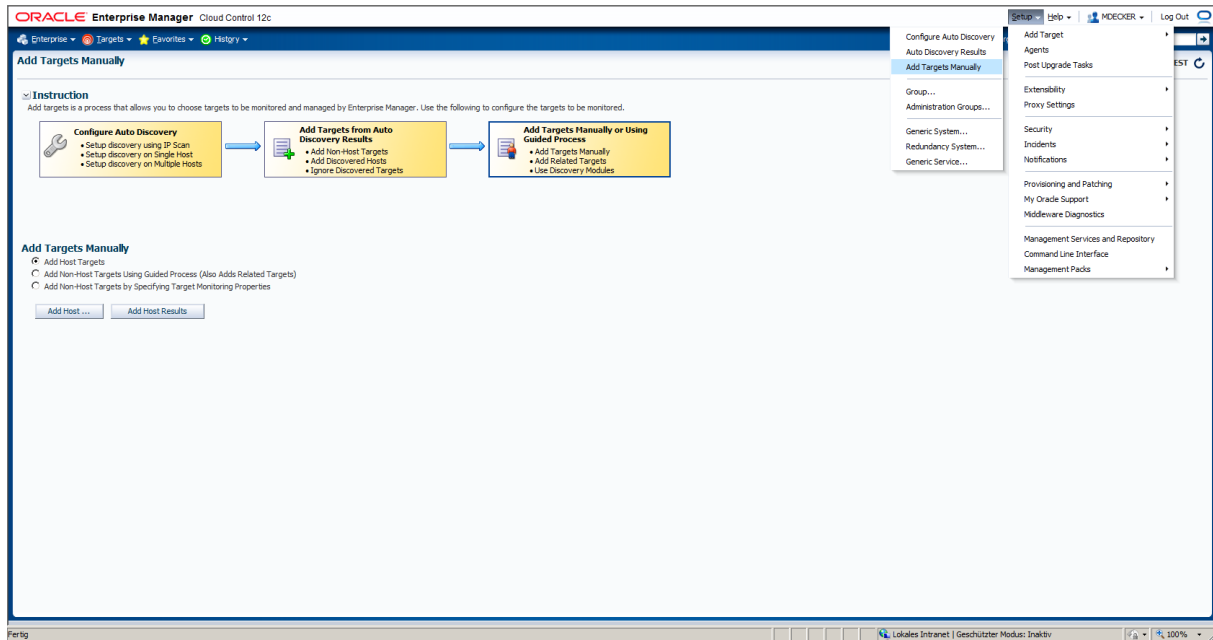
Zudem soll noch das Agent_Diag Script platziert werden:

```
cp /OraBase/Software/oracle/GridControl/agent_diag.sh /OraBase/agent/
```

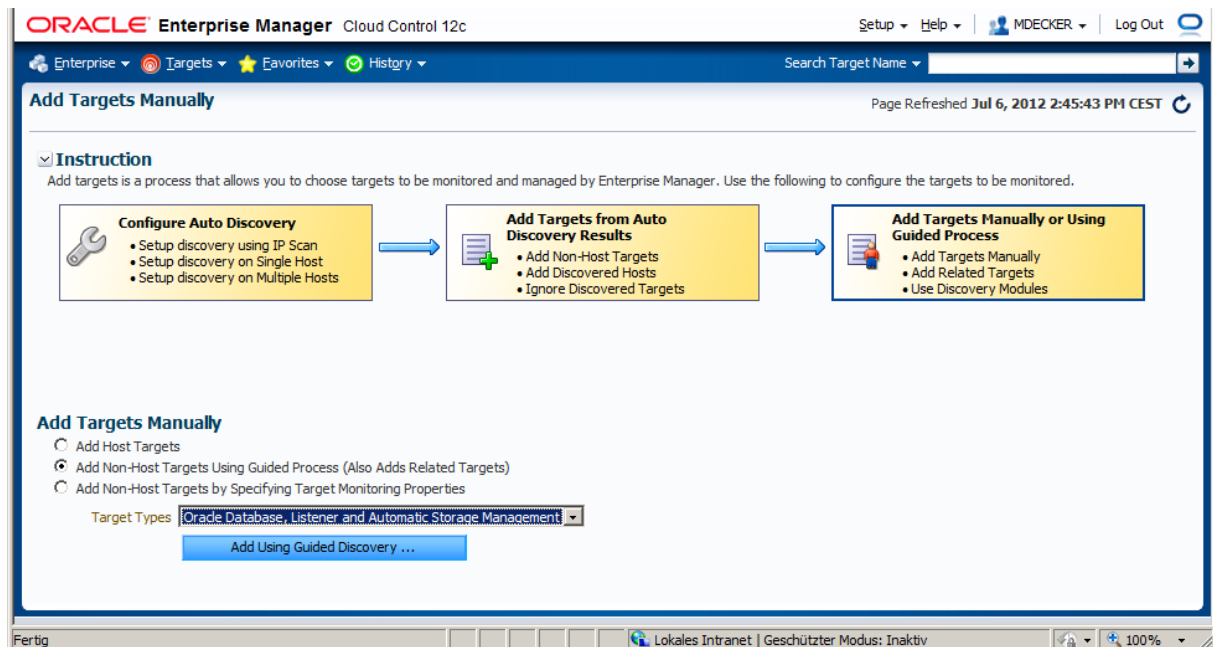

5 Konfiguration von Targets

Nach der Installation des Agents können die Targets (Datenbank & Listener) konfiguriert werden.

5.1 Konfiguration von Datenbank-Targets



Setup-> Add Targets -> Add Targets Manually



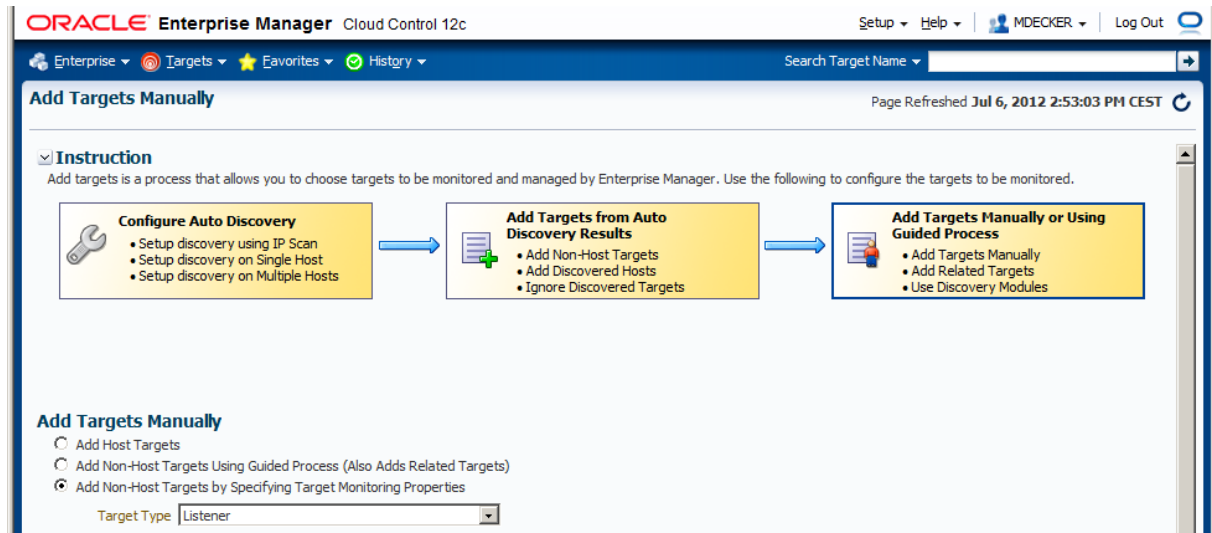
Achtung:

Wenn Listener automatisch discovered wurden, ist zu prüfen, ob der generierte Listener Name richtig ist. Bei Failover-Cluster Listnern soll hier der Listener Name nur den virtuellen Hostnamen und nicht den physikalischen Hostnamen enthalten.

Test Connection

Save

5.2 Konfiguration von Listener-Targets



Bei Failover-Cluster Listenern soll hier der Listener Name nicht Fully Qualified Hostname enthalten.

6 Target-Failover bei Failover-Cluster

Bei Failover-Cluster Systemen kann das Datenbank-Target im Fehlerfall automatisch auf den Partner-Node wechseln. Oracle Enterprise Manager sieht folgende Alternativen für dieses Setup vor:

6.1 virtuelle Agenten pro Datenbank-Target

Bei diesem Konzept wird pro Datenbank ein virtueller Agent installiert. Dieser hört nur auf den virtuellen Hostnamen. Der Nachteil besteht darin, daß bei Systemen mit vielen Datenbanken ein hoher Ressourcen-Verbrauch für die virtuellen Agenten besteht.

6.2 Relokieren der Targets nach dem Failover

Bei diesem Konzept wird nach dem Failover der Datenbank das EMCLI (Enterprise Manager Command Line Interface) benutzt, um das Monitoring der Targets auf den neuen Node zu verschieben.

Beispiel:

```
emcli relocate_targets
  -src_agent=agent1:3872
  -dest_agent=agent2:3872
  -target_name=DB1.WORLD
  -target_type=oracle_database
  -copy_from_src

emcli relocate_targets
  -src_agent=agent1:3872
  -dest_agent=agent2:3872
  -target_name=DB1_LISTENER
  -target_type=oracle_listener
  -copy_from_src
```

Diese Logik könnte entweder in die Cluster-Failover Scripts oder in die Datenbank-Startup Scripts eingefügt werden.

Test:

- Datenbank wird discovered und als Target hinzugefügt
- Es wird ein Failover der Datenbank / Listener von agent1 auf agent2 durchgeführt.
- Die OEM Targets werden mittels emcli relocated:

```
/OraBase/oms12c/Middleware_/control/OMS.env

emcli login -username=sysman
Enter password :

Login successful

emcli sync
Synchronized successfully

emcli relocate_targets \
>   -src_agent=agent1:3872 \
>   -dest_agent= agent2:3872 \
>   -target_name=DB01.WORLD   \
>   -target_type=oracle_database \
>   -copy_from_src

/OraBase/agent/agent12c/agent_inst/bin/emctl config agent listtargets
```

7 Patching von OMS / Agents / PlugIns

Zum aktuellen Zeitpunkt (10.07.2012) stehen folgende Patches für Cloud Control 12.1.0.1 BP1 zur Verfügung:

```
-rwx----- 1 oracle dba 1542499 2012-07-09 11:26 p13707704_121011_Generic.zip
-rwx----- 1 oracle dba 710264 2012-07-09 11:26 p13713877_121020_Generic.zip
-rwx----- 1 oracle dba 32483624 2012-07-09 11:26 p6880880_111000_Linux-x86-64.zip
```

Diese sind Voraussetzung für das Update auf die aktuellste Plugin-Version 12.1.0.2 [u120427].

Oracle Enterprise Manager Cloud Control 12c verwendet Plug-Ins für das Monitoring für bestimmte Targets. Das Ziel besteht darin, Plug-In Updates bei Release von neuen Datenbank-Versionen (z.B. 11.2.0.4 oder 12c) bereitzustellen, ohne ein komplett neues Cloud Control Patchset herausgeben zu müssen.

```
cd /OraBase/oms12c/Middleware/oms/
unzip -d . /OraBase/Software/oracle/GridControl/cc_patches/p6880880_111000_Linux-
x86-cd ../agent/core/12.1.0.1.0
unzip -d . /OraBase/Software/oracle/GridControl/cc_patches/p6880880_111000_Linux-
x86-64.zip
cd ../Oracle_WT/
unzip -d . /OraBase/Software/oracle/GridControl/cc_patches/p6880880_111000_Linux-
x86-64.zip
```

```
unzip -d patch_13707704 p13707704_121011_Generic.zip
```

```
export ORACLE_HOME=/OraBase/oms12c/Middleware/oms
export PATH=$ORACLE_HOME/bin:$ORACLE_HOME/OPatch:$PATH
export MIDDLEWARE_HOME=/OraBase/oms12c/Middleware
```

```
emctl stop oms
```

```
opatch napply
emctl applypatch repos -patchHome $PWD/13653571
```

```
emctl register oms metadata -service swlib -file
$ORACLE_HOME/sysman/metadata/swlib/multioms -core
Oracle Enterprise Manager Cloud Control 12c Release 12.1.0.1.0
Copyright (c) 1996, 2012 Oracle Corporation. All rights reserved.
SYSMAN password:
Metadata registration successful
```

```
emctl register oms metadata -service procedures -file
$ORACLE_HOME/sysman/metadata/procedures/multioms/MultiOMS.xml -core
Oracle Enterprise Manager Cloud Control 12c Release 12.1.0.1.0
Copyright (c) 1996, 2012 Oracle Corporation. All rights reserved.
SYSMAN password:
Metadata registration successful
```

```
emctl register oms metadata -service derivedAssocs -file
$ORACLE_HOME/sysman/metadata/derivedAssocs/emSystemAssocRules.xml -core
Oracle Enterprise Manager Cloud Control 12c Release 12.1.0.1.0
Copyright (c) 1996, 2012 Oracle Corporation. All rights reserved.
SYSMAN password:
Metadata registration successful
```

```
export
PLUGIN_HOME=/OraBase/oms12c/Middleware/plugins/oracle.sysman.db.oms.plugin_12.1.0.2
.0
```

```
opatch lsinventory -oh $PLUGIN_HOME

opatch napply -oh $PLUGIN_HOME

$ emctl register oms metadata -service swlib -file $PLUGIN_HOME/metadata/swlib -
pluginId oracle.sysman.db
$ emctl register oms metadata -service procedures -file
$PLUGIN_HOME/metadata/procedures/ExtendClusterNG.xml -pluginId oracle.sysman.db
$ emctl register oms metadata -service procedures -file
$PLUGIN_HOME/metadata/procedures/provsidb.xml -pluginId oracle.sysman.db
$ emctl register oms metadata -service preNGProcedures -file
$PLUGIN_HOME/metadata/preNGProcedures/RACProvisionWIN.xml -pluginId
oracle.sysman.db
```

7.1 Patching von OMS / Agents / PlugIns mit August 2012 Performance Patch

Cloud Control Patching:

Announcing Enterprise Manager Cloud Control 12c Release 12.1.0.1 Performance Patch Bundles Aug 2012 [ID 1486727.1]

1. Framework Patch 14334551:

=====

latest opatch

3. Ensure that you set the ORACLE_HOME environment variable to OMS core home, which is <%MIDDLEWARE_HOME%/>/oms.

Installation

To install the patch, follow these steps:

Note: In case of a multi-OMS environment, after you perform these steps on the first OMS host, repeat the same steps, except for Step (5), for each of the other OMSes.

1. Maintain a location for storing the contents of the patch ZIP file. In the rest of the document, this location (absolute path) is referred to as |<PATCH_TOP_DIR>|.
 2. Extract the contents of the patch ZIP file to the location you created in Step (1). To do so, run the following command:


```
$ unzip -d <PATCH_TOP_DIR> p14334551_121011_Generic.zip
```
 3. Navigate to the <PATCH_TOP_DIR>/14334551 directory:


```
$ cd <PATCH_TOP_DIR>/14334551
```
 4. Install the patch by running the following command:


```
$ opatch napply
```
 5. Run the following command from the <PATCH_TOP_DIR>/14334551 directory:


```
$ emctl applypatch repos -patchHome $PWD/13508056
```
 6. Start the OMS by running the following command:


```
$ emctl start oms
```

2. Fusion Middleware Plugin patch 14335908:

=====

3. Ensure that you set the ORACLE_HOME environment variable to OMS Core home, which is <%MIDDLEWARE_HOME%/>/oms.

```
4. Set the environment variable PLUGIN_HOME to
<%MIDDLEWARE_HOME%/plugins/oracle.sysman.emas.oms.plugin_12.1.0.2.0
```

Installation

To install the patch, follow these steps:

Note: In case of a multi-OMS environment, after you perform these steps on the first OMS host, repeat the same steps for each of the other OMSes.

1. Maintain a location for storing the contents of the patch ZIP file.
In the rest of the document, this location (absolute path) is referred to as <PATCH_TOP_DIR>.
2. Extract the contents of the patch ZIP file to the location you created in Step (1). To do so, run the following command:

```
$ unzip -d <PATCH_TOP_DIR> p14335908_121020_Generic.zip
```
3. Navigate to the <PATCH_TOP_DIR>/14335908 directory:

```
$ cd <PATCH_TOP_DIR>/14335908
```
4. Install the patch by running the following command:
On Unix:

```
$ opatch napply -oh $PLUGIN_HOME
```


On Windows:

```
opatch napply -oh %PLUGIN_HOME%
```
5. Start the OMS by running the following command:

```
$ emctl start oms
```

5. Management Agent patch 14335896:

=====

It is a pre-requisite to apply a patch for 13242776 (BP1) on the agent before you apply this patch.

To apply an agent patch, follow these steps:

1. In Cloud Control, from the Enterprise menu, select Patching and Provisioning, and then click Patches and Updates.
2. On the Patches and Updates page, in the Patch Search Region, enter the 14335896 available in the readme, and click Search.
3. Select the patch, and from the context menu click Add to a Plan, and select Add to New.
4. In the Add Patch to Plan dialog box, enter a unique name for the plan, and click the search icon to view the list of targets reporting to the OMS running on your host. From the list, select the agent targets (or group of targets) that need to be patched. Ensure that you add at least one target of type agent, and then click Create Plan.
5. On the Patches and Updates page, in the Plans region, click the Patch Plan you created in the previous step. Alternatively, select the Patch Plan, and from the context menu, click View.
6. In the Create Plan wizard, on the Plan Information page, in the Overview section, enter the Patch Plan name. You can choose to edit it if you want.

(Optional) Only to communicate with other administrators, you may enter your intended deployment date or time, and a short description.
7. Click Next.
8. On the Patches page, review the patches added to the Patch Plan.

9. Click Next.

10. In the Deployment Options page, retain the default location (%emd_emstagedir%) available on the target machine, or edit the Stage Location to provide a new location for staging the Agent patches.

In the Credentials section, select Oracle Home Preferred Credentials if you have already set them earlier. You can otherwise click Override Oracle Home Preferred Credentials to set the Normal Oracle Home Credentials and Privileged Oracle Home Credentials, to access the Oracle home of the target.

11. Click Next.

12. On the Validation page, click Analyze to check for conflicts. If there are conflicts, then review the issues, and resolve it according to the corresponding solutions available on the page. After resolving the issue, click Re-Analyze.

13. Click Next.

14. On the Review & Deploy page, review the details you have provided for the patch plan, then click Deploy.

Note: If the automated patching process fails, then to recover from the failure, you can manually apply the patch.

```
#!/bin/bash
# Script:
/OraBase/Software/oracle/GridControl/cc_patches_2012_08/AGENT/install_patch.sh
AGENT_BASE_DIR=/OraBase/agent/agent12c
AGENT_HOME=${AGENT_BASE_DIR}/core/12.1.0.1.0
AGENT_INSTANCE_HOME=${AGENT_BASE_DIR}/agent_inst
export ORACLE_HOME=${AGENT_HOME}
export PATH=${AGENT_INSTANCE_HOME}/bin:${ORACLE_HOME}/bin:${ORACLE_HOME}/OPatch:$PATH

unzip -o -d $ORACLE_HOME
/OraBase/Software/oracle/GridControl/cc_patches/p6880880_111000_Linux-x86-64.zip

/OraBase/agent/agent12c/agent_inst/bin/emctl stop agent

cd /OraBase/Software/oracle/GridControl/cc_patches_2012_08/AGENT/14335896
opatch napply -skip_subset -skip_duplicate -silent -ocmrf
/OraBase/Software/oracle/GridControl/cc_patches_2012_08/ocm.rsp

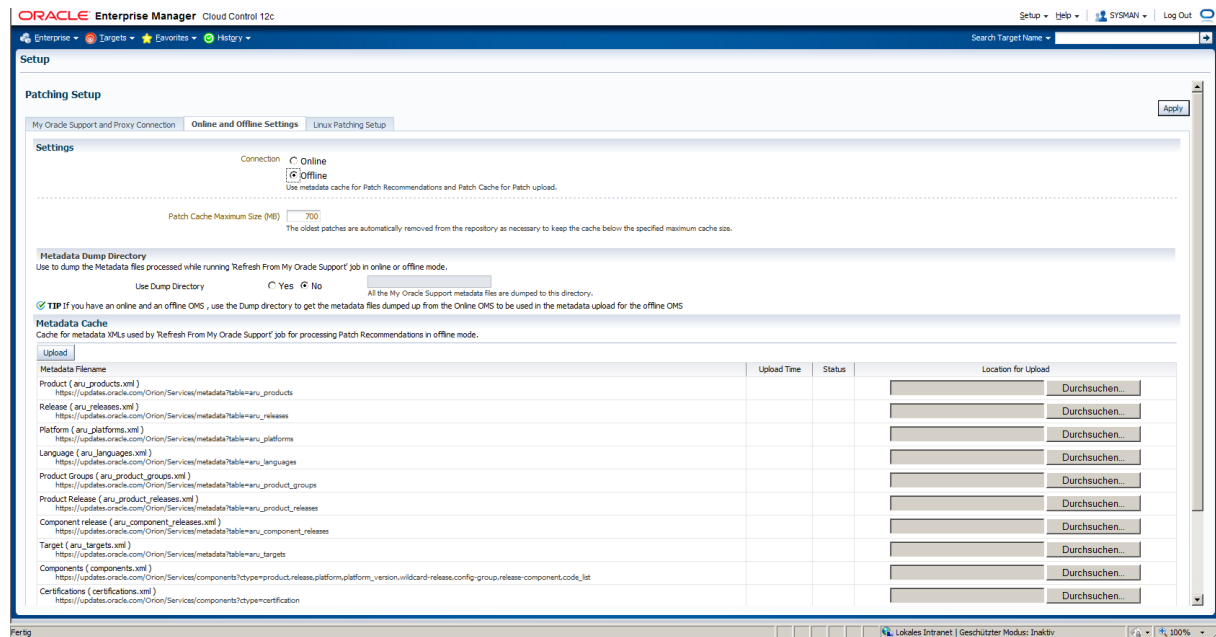
/OraBase/agent/agent12c/agent_inst/bin/emctl start agent
# End Script
```

Ausführung:

```
if [ ! -f
/OraBase/Software/oracle/GridControl/cc_patches_2012_08/AGENT/install_patch.sh ];
then
    mount /OraBase/Software
fi
/OraBase/Software/oracle/GridControl/cc_patches_2012_08/AGENT/install_patch.sh
umount /OraBase/Software
```

8 Offline Update

Setup-> Patching and Provisioning -> Offline Patching



Offline, Apply

Download

https://updates.oracle.com/Orion/Download/download_patch/p9348486_112000_Generic.zip

```
emcli import_update_catalog -
file="/OraBase/Software/oracle/GridControl/cc_patches/p9348486_112000_Generic.zip"
-omslocal
Processing catalog for Provisioning Bundle
Processing catalog for Agent Software
Processing update: Agent Software - Agent Software (12.1.0.1.0) for Microsoft
Windows (32-bit)
Processing update: Agent Software - Agent Software (12.1.0.1.0) for HP-UX PA-RISC
(64-bit)
Processing update: Agent Software - Agent Software (12.1.0.1.0) for Linux x86
Processing update: Agent Software - Agent Software (12.1.0.1.0) for Oracle Solaris
on x86-64 (64-bit)
Processing update: Agent Software - Agent Software (12.1.0.1.0) for Oracle Solaris
on SPARC (64-bit)
Processing update: Agent Software - Agent Software (12.1.0.1.0) for Microsoft
Windows x64 (64-bit)
Processing update: Agent Software - Agent Software (12.1.0.1.0) for IBM AIX on
POWER Systems (64-bit)
Processing update: Agent Software - Agent Software (12.1.0.1.0) for IBM: Linux on
System z
Processing update: Agent Software - Agent Software (12.1.0.1.0) for HP-UX Itanium
Processing catalog for Management Connector
Processing update: Management Connector -
IBM TEC Connector - 12.1.0.2.0

Processing update: Management Connector -
Microsoft SCOM R2 Connector - 12.1.0.2.0

Processing update: Management Connector -
Microsoft SCOM preR2 Connector - 12.1.0.2.0
```


Processing update: Management Connector - BMC Remedy Change Management Connector - 12.1.0.1.0

Processing update: Management Connector -
HP Service Manager 7.1 Connector - 12.1.0.2.0

Processing update: Management Connector -
HP Service Manager 7.0 Connector - 12.1.0.2.0

Processing update: Management Connector -
HP Operations Manager UNIX Connector - 12.1.0.2.0

Processing update: Management Connector -
CA Service Desk Connector - 12.1.0.2.0

Processing catalog for Plug-in

Processing update: Plug-in - Application Management Pack for Oracle Utilities provides management and monitoring for the Oracle Utilities area

Processing update: Plug-in - Application Management Pack for Oracle Utilities provides management and monitoring for the Oracle Utilities area

Processing update: Plug-in - Application Management Pack for Oracle Enterprise Taxation and Policy Management provides management and monitoring for the Oracle Enterprise Taxation and Policy Management area

Processing update: Plug-in - Application Management Pack for Oracle Enterprise Taxation and Policy Management provides management and monitoring for the Oracle Enterprise Taxation and Policy Management area

Processing update: Plug-in - Oracle Exadata plugin provides comprehensive management for Oracle Exadata and related targets such as Database Machine, etc.

Processing update: Plug-in - Plug-in to enable Oracle VM virtualization management capabilities in Oracle Enterprise Manager.

Processing update: Plug-in - Plug-in to enable cloud self service framework and portal in Oracle Enterprise Manager.

Processing update: Plug-in - Plug-in to enable cloud self service framework and portal in Oracle Enterprise Manager.

Processing update: Plug-in - Oracle Siebel Plugin consists of monitoring and management for Oracle Siebel area.

Processing update: Plug-in - Enterprise Manager for Fusion Apps consists of monitoring and management for Oracle Fusion and diagnostics in fusion application area.

Processing update: Plug-in - FA Plugin consists of monitoring and management for Oracle Fusion and diagnostics in fusion application area.

Processing update: Plug-in - FA Plugin consists of monitoring and management for Oracle Fusion and diagnostics in fusion application area.

Processing update: Plug-in - Oracle Chargeback, Consolidation Planner and Capacity Planning Plug-in

Processing update: Plug-in - Oracle Chargeback, Consolidation Planner and Capacity Planning Plug-in

Processing update: Plug-in - Enterprise Manager for Fusion Middleware consists of monitoring and management for Oracle Fusion Middleware and diagnostics in middleware area.

Processing update: Plug-in - Oracle Database plugin provides comprehensive management for Oracle Database and related targets such as Real Application Clusters, Automatic Storage Management (ASM) etc.

Processing update: Plug-in - Management Plug-in for the Sun ZFS Storage Appliance Family

Processing update: Plug-in - Enterprise Manager for Oracle GoldenGate

Processing update: Plug-in - Sybase ASE Server Plugin for monitoring Sybase ASE Server from Enterprise Manager

Processing update: Plug-in - Ops Center Infrastructure stack management plug-in.

Processing update: Plug-in - Microsoft SQL Server Plugin for monitoring SQL Server database from Enterprise Manager

Processing update: Plug-in - IBM DB2 Database Plugin for monitoring DB2 databases from Enterprise Manager

Processing update: Plug-in - Apache Tomcat Plugin for monitoring Apache Tomcat Server from Enterprise Manager

Processing update: Plug-in - Oracle Jdedwards EnterpriseOne Plugin consists of monitoring and management for Oracle Jdedwards EnterpriseOne system.

Processing update: Plug-in - Oracle Application Management Pack for Oracle E-Business Suite consists of System Management and Change Management Feature Sets

Processing catalog for Informational

Processing update: Informational - Enterprise Manager Cloud Control 12C white papers available now on Oracle Technology Network
Processing update: Informational - Integration of Oracle Business Intelligence (BI) Publisher 11.1.1.5.0 with Enterprise Manager Cloud Control 12.1.0.1
Processing update: Informational - Management of Oracle VM 3.1.1 now available with Oracle Enterprise Manager 12c
Processing update: Informational - Oracle Enterprise Manager Cloud Control Mobile now available for Apple iPhone

Operation completed successfully. Self Update catalog has been uploaded to Enterprise Manager. Please use the Self Update Home to view and manage updates.

ORACLE Enterprise Manager Cloud Control 12c

Enterprise - Targets - Favorites - History

Search Target Name

Page Refreshed Jul 9, 2012 2:48:35 PM CEST

Oracle periodically provides new functionality and updates for existing features in Enterprise Manager. The Self Update home allows administrators to receive notifications and view, download, and apply such updates. While these updates are retrieved automatically, a manual check can be made at any time.

Status

Connection Mode: **Offline** Last Download Time: Jul 6, 2012 10:38:42 AM CEST Last Apply Time: Jul 6, 2012 10:38:33 AM CEST
Most Recent Refresh Time: Jul 9, 2012 2:48:00 PM CEST Last Download Type: Plug-in Last Apply Type: Plug-in

Actions: Open Check Updates Agent Software

Type	Available Updates	Downloaded Updates	Applied Updates	Description
Agent Software	9	0	1	Agent software has to be installed on hosts for managing the host.
Compliance Content	0	0	0	Compliance Content contains Framework, Standard, Rules with support of add and delete on these entities.
Diagnostics Checks	0	0	0	Target side policy checks that identify conditions that may require the attention of target administrators.
EM Deployment Prerequisite Resources	0	0	0	EM Deployment Prerequisite Checks are the metadata used for checking prerequisites for Install, Upgrade, Patching of EM Platform and Plugins.
Management Connector	8	0	1	Management Connectors are components that integrate different enterprise frameworks into the Enterprise Manager Console
Middleware Profiles and Gold Images	0	0	0	A collection of Software Components used for provisioning of Oracle Application Server homes.
Oracle Database Provisioning Profiles and Gold Images	0	0	0	A collection of Software Components used for provisioning of Oracle Database, Clusterware and Grid Infrastructure homes.
Plug-in	25	13	11	Plug-in extends Enterprise Manager to manage newer target type as well as to bring vertical functionality
Provisioning Bundle	0	0	1	Provisioning bundle is a collection of deployment procedures, software library entities, and other related artifacts that cater to the provisioning and patching of various Oracle and non-Oracle Products.

Past Activities: Agent Software

Actions	Status	OS Platform	Version	Administrator	Start Time	Elapsed Time[Sec]
Available	Succeeded	Oracle Solaris on x...	12.1.0.1.0	SYSMAN	Jul 9, 2012 2:47:32 PM CEST	0.01
Available	Succeeded	Microsoft Windows...	12.1.0.1.0	SYSMAN	Jul 9, 2012 2:47:32 PM CEST	0.32
Available	Succeeded	HP-UX PA-RISC (6...	12.1.0.1.0	SYSMAN	Jul 9, 2012 2:47:32 PM CEST	0.01
Available	Succeeded	Linux x86	12.1.0.1.0	SYSMAN	Jul 9, 2012 2:47:32 PM CEST	0.01
Available	Succeeded	HP-UX Itanium	12.1.0.1.0	SYSMAN	Jul 9, 2012 2:47:32 PM CEST	0.01
Available	Succeeded	Oracle Solaris on S...	12.1.0.1.0	SYSMAN	Jul 9, 2012 2:47:32 PM CEST	0.01
Available	Succeeded	Microsoft Windows...	12.1.0.1.0	SYSMAN	Jul 9, 2012 2:47:32 PM CEST	0.01
Available	Succeeded	IBM AIX on POWE...	12.1.0.1.0	SYSMAN	Jul 9, 2012 2:47:32 PM CEST	0.02
Available	Succeeded	IBM: Linux on Syst...	12.1.0.1.0	SYSMAN	Jul 9, 2012 2:47:32 PM CEST	0.01
Apply	Succeeded	Linux x86-64	12.1.0.1.0	SYSMAN	Jul 6, 2012 10:34:46 AM CEST	0.26

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ORACLE Enterprise Manager Cloud Control 12c

Enterprise - Targets - Favorites - History

Search Target Name

Page Refreshed Jul 9, 2012 2:49:37 PM CEST

Self Update > Plug-in

Plug-in Updates

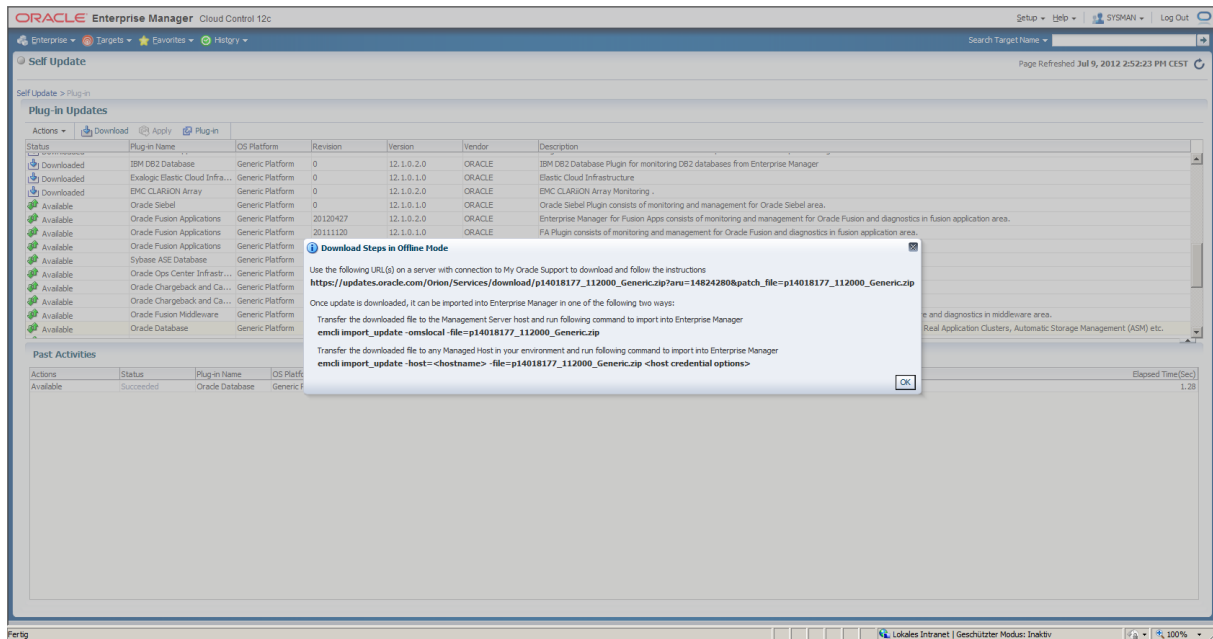
Actions: Download Apply Plug-in

Status	Plug-in Name	OS Platform	Revision	Version	Vendor	Description
Available	Oracle Chargeback and Ca...	Generic...	0	12.1.0.1.0	ORACLE	Oracle Chargeback, Consolidation Planner and Capacity Planning Plug-in
Available	Oracle Fusion Middleware	Generic...	20120427	12.1.0.2.0	ORACLE	Enterprise Manager for Fusion Middleware consists of monitoring and management for Oracle Fusion Middleware and diagnostics in middleware area.
Available	Oracle Database	Generic...	20120427	12.1.0.2.0	ORACLE	Oracle Database plugin provides comprehensive management for Oracle Database and related targets such as Real Application Clusters, Automatic Storage Management (ASM) etc.
Available	Sun ZFS Storage Appliances	Generic...	0	12.1.0.1.0	ORACLE	Management Plug-in for the Sun ZFS Storage Appliance Family
Available	Oracle GoldenGate	Generic...	0	12.1.0.1.0	ORACLE	Enterprise Manager for Oracle GoldenGate
Available	Oracle Enterprise Taxation ...	Generic...	0	12.1.0.1.0	ORACLE	Application Management Pack for Oracle Enterprise Taxation and Policy Management provides management and monitoring for the Oracle Enterprise Taxation and Policy Management area
Available	Oracle Exadata	Generic...	20120427	12.1.0.2.0	ORACLE	Oracle Exadata plugin provides comprehensive management for Oracle Exadata and related targets such as Database Machine, etc.
Available	Oracle Virtualization	Generic...	0	12.1.0.1.0	ORACLE	Plug-in to enable Oracle VM virtualization management capabilities in Oracle Enterprise Manager.
Available	Oracle Cloud Application	Generic...	20111120	12.1.0.1.0	ORACLE	Plug-in to enable cloud self service framework and portal in Oracle Enterprise Manager.
Available	Oracle Cloud Application	Generic...	0	12.1.0.1.0	ORACLE	Plug-in to enable cloud self service framework and portal in Oracle Enterprise Manager.
Available	Microsoft SQL Server Data...	Generic...	0	12.1.0.2.0	ORACLE	Microsoft SQL Server Plugin for monitoring SQL Server database from Enterprise Manager
Available	IBM DB2 Database	Generic...	0	12.1.0.1.0	ORACLE	IBM DB2 Database Plugin for monitoring DB2 databases from Enterprise Manager
Available	Apache Tomcat	Generic...	0	12.1.0.1.0	ORACLE	Apache Tomcat Plugin for monitoring Apache Tomcat Server from Enterprise Manager

Past Activities

Actions	Status	Plug-in Name	OS Platform	Revision	Version	Administrator	Start Time	Elapsed Time[Sec]
Available	Succeeded	Oracle Database	Generic Platform	20120427	12.1.0.2.0	SYSMAN	Jul 9, 2012 2:47:53 PM CEST	1.28

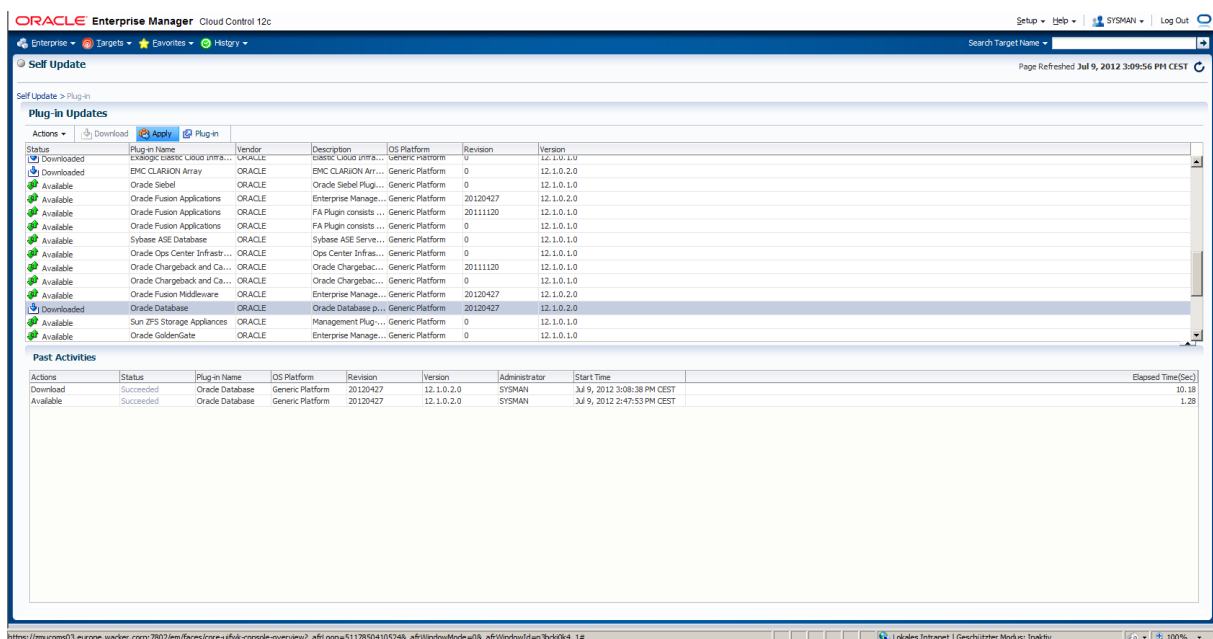
Fertig



https://updates.oracle.com/Orion/Services/download/p14018177_112000_Generic.zip?aru=14824280&patch_file=p14018177_112000_Generic.zip

```
emcli import_update -omslocal -file=p14018177_112000_Generic.zip
```

```
emcli import_update -omslocal -
file="/OraBase/Software/oracle/GridControl/cc_patches/p14018177_112000_Generic.zip"
Processing update: Plug-in - Oracle Database plugin provides comprehensive
management for Oracle Database and related targets such as Real Application
Clusters, Automatic Storage Management (ASM) etc.
Operation completed successfully. Update has been uploaded to Enterprise Manager.
Please use the Self Update Home to manage this update.
```



Apply

ORACLE Enterprise Manager Cloud Control 12c

Enterprise Targets Favorites History Search Target Name

Self Update Page Refreshed Jul 9, 2012 3:09:56 PM CEST

Self Update > Plug-in

Plug-in Updates

Actions Download Apply Plug-in

Status	Plug-in Name	Vendor	Description	OS Platform	Revision	Version
Downloaded	Oracle Classic UI...	ORACLE	Classic UI...	Generic Platform	0	12.1.0.1.0
Downloaded	EMC CLARION Array	ORACLE	EMC CLARION Ar...	Generic Platform	0	12.1.0.2.0
Available	Oracle Siebel	ORACLE	Oracle Siebel Plug...	Generic Platform	0	12.1.0.1.0
Available	Oracle Fusion Applications	ORACLE	Enterprise Manage...	Generic Platform	20120427	12.1.0.2.0
Available	Oracle Fusion Applications	ORACLE	FA Plugin consists ...	Generic Platform	20111120	12.1.0.1.0
Available	Oracle Fusion Applications	ORACLE	FA Plugin consists ...	Generic Platform	0	12.1.0.1.0
Available	Sybase ASE Database	ORACLE	Sybase ASE Serve...	Generic Platform	0	12.1.0.1.0
Available	Oracle Ops Center Infrastr...	ORACLE	Ops Center Infra...	Generic Platform	0	12.1.0.1.0
Available	Oracle Chargeback and Ca...	ORACLE	Oracle Chargebac...	Generic Platform	20111120	12.1.0.1.0
Available	Oracle Chargeback and Ca...	ORACLE	Oracle Chargebac...	Generic Platform	0	12.1.0.1.0
Available	Oracle Fusion Middleware	ORACLE	Enterprise Manage...	Generic Platform	0	12.1.0.1.0
Downloaded	Oracle Database	ORACLE	Oracle Database p...	Generic Platform	0	12.1.0.1.0
Available	Sun ZFS Storage Appliances	ORACLE	Management Plug...	Generic Platform	0	12.1.0.1.0
Available	Oracle GoldenGate	ORACLE	Enterprise Manage...	Generic Platform	0	12.1.0.1.0

Past Activities

Actions	Status	Plug-in Name	OS Platform	Revision	Version	Administrator	Start Time	Elapsed Time(Sec)
Download	Succeeded	Oracle Database	Generic Platform	20120427	12.1.0.2.0	SYSMAN	Jul 9, 2012 3:08:38 PM CEST	10.18
Available	Succeeded	Oracle Database	Generic Platform	20120427	12.1.0.2.0	SYSMAN	Jul 9, 2012 2:47:53 PM CEST	1.28

Apply
Plug-in deployment must be initiated from Plug-in home page. Click OK to navigate to Plug-in home page.

OK Cancel

Fertig Lokales Intranet | Geschützter Modus: Inaktiv

ORACLE Enterprise Manager Cloud Control 12c

Enterprise Targets Favorites History Search Target Name

Plug-ins Page Refreshed Jul 9, 2012 3:10:58 PM CEST

This page displays the list of plug-ins available, downloaded and deployed in the Enterprise Manager environment. Plug-in lifecycle actions such as deploy/undeploy of Plug-ins on Management Server and Management Agents can be initiated from here.

Actions View Deploy On Undeploy From

Name	Version	Management Agent with Plug-in	Description
Management Agent...	Latest Downloaded	On Management Server	
Oracle Enterprise Taxation a...	12.1.0.2.0		0 Oracle Application Management Pack for Oracle Enterprise Taxation and Policy Management provides management and monitoring for the Oracle Enterprise Taxation and Policy Management area.
Oracle Fusion Applications	12.1.0.2.0 [120427]		0 Enterprise Manager for Fusion Apps consists of monitoring and management for Oracle Fusion and diagnostics in Fusion application area.
Oracle Jdewards Enterprise...	12.1.0.1.0		0 Oracle Jdewards EnterpriseOne Plugin consists of monitoring and management for Oracle Jdewards EnterpriseOne system.
Oracle Siebel	12.1.0.2.0		0 Oracle Siebel Plugin consists of monitoring and management for Oracle Siebel area.
Oracle Utilities	12.1.0.2.0		0 Application Management Pack for Oracle Utilities provides management and monitoring for the Oracle Utilities area.
IBM DB2 Database	12.1.0.2.0		0 IBM DB2 Database Plugin for monitoring DB2 databases from Enterprise Manager
Microsoft SQL Server Database	12.1.0.2.0		0 Microsoft SQL Server Plugin for monitoring SQL Server database from Enterprise Manager
Oracle Database	12.1.0.2.0 [120427]	12.1.0.2.0	1 Oracle Database plugin provides comprehensive management for Oracle Database and related targets such as Real Application Clusters, Automatic Storage Management (ASM) etc.
Sybase ASE Database	12.1.0.2.0		0 Sybase ASE Server Plugin for monitoring Sybase ASE Server from Enterprise Manager

Oracle Database

General Recent Deployment Activities

Plug-in ID: oracle.sysman.db Latest Available Version: 12.1.0.2.0 [120427]

Vendor: oracle Versions Downloaded: 12.1.0.2.0 [120427], 12.1.0.2.0, 12.1.0.1.0 [111221]

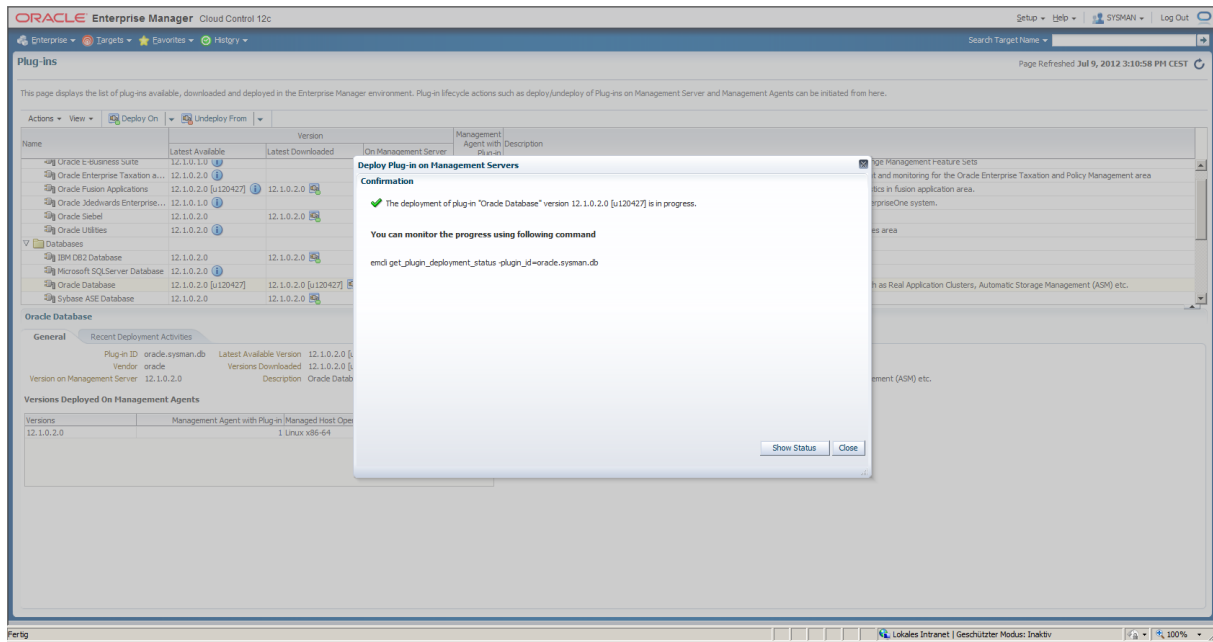
Version on Management Server: 12.1.0.2.0 Description: Oracle Database plugin provides comprehensive management for Oracle Database and related targets such as Real Application Clusters, Automatic Storage Management (ASM) etc.

Versions Deployed On Management Agents

Versions	Management Agent with Plug-in/Managed Host Operating System
12.1.0.2.0	1 Linux x86-64

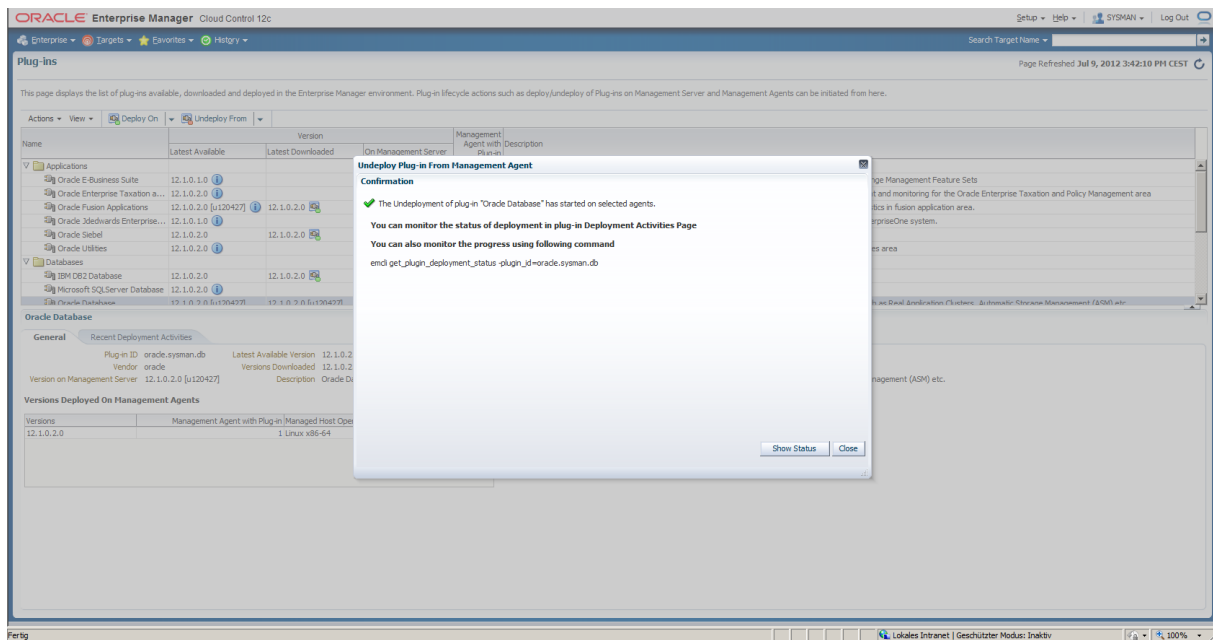
Fertig Lokales Intranet | Geschützter Modus: Inaktiv

Deploy On ->OMS



Undeploy previous Plugin revision from agent:

UnDeploy -> Agent



Agent -> Deploy

ORACLE Enterprise Manager Cloud Control 12c

Enterprise Targets Favorites History Search Target Name

Page Refreshed Jul 9, 2012 3:48:47 PM CEST

Plug-ins

This page displays the list of plug-ins available, downloaded and deployed in the Enterprise Manager environment. Plug-in lifecycle actions such as deploy/undeploy of Plug-ins on Management Server and Management Agents can be initiated from here.

Actions View Deploy On Undeploy From

Name	Latest Available	Latest Downloaded	On Management Server	Management Agent with Plug-in	Description
Oracle Enterprise Taxation & Policy Management	12.1.0.2.0 [120427]	12.1.0.2.0			Enterprise Taxation and Policy Management area
Oracle Fusion Applications	12.1.0.2.0 [120427]	12.1.0.2.0			Fusion application area
Oracle Mediators Enterprise...	12.1.0.1.0	12.1.0.2.0			EnterpriseOne system
Oracle Sabel	12.1.0.2.0	12.1.0.2.0			es area
Oracle Utilities	12.1.0.2.0	12.1.0.2.0			as Real Application Clusters, Automatic Storage Management (ASM) etc.
Databases					
IBM DB2 Database	12.1.0.2.0	12.1.0.2.0			
Microsoft SQL Server Database	12.1.0.2.0	12.1.0.2.0			
Oracle Database	12.1.0.2.0 [120427]	12.1.0.2.0 [120427]			
Sybase ASE Database	12.1.0.2.0	12.1.0.2.0			

Oracle Database

General Recent Deployment Activities

Plug-in ID: oracle.sysman.db Latest Available Version: 12.1.0.2.0
Vendor: oracle Versions Downloaded: 12.1.0.2.0
Version on Management Server: 12.1.0.2.0 [120427] Description: Oracle Database

Versions Deployed On Management Agents

Versions: Management Agent with Plug-in/Managed Host Operating System
No Management Agent available

Deploy Plug-in on Management Agent

Confirmation

✓ The deployment of plug-in "Oracle Database" version 12.1.0.2.0 [120427] has started on selected agents.

You can monitor the status of deployment in plug-in Deployment Activities Page

You can also monitor the progress using following command

```
emctl get_plugh_deployment_status -plugin_id=oracle.sysman.db
```

Show Status Close

Fertig Lokales Intranet | Geschützter Modus: Inaktiv 100%

9 Start/Stop von Cloud Control OMS / Agent

```
pwd
/OraBase/oms12c/Middleware/control

ls -al
total 32
drwx----- 2 oracle dba 4096 2012-07-10 08:14 .
drwxr-x--- 19 oracle dba 4096 2012-07-09 13:10 ..
-rw----- 1 oracle dba 307 2012-07-10 08:11 AGENT.env
-rw----- 1 oracle dba 155 2012-07-09 11:34 OMS.env
-rwx----- 1 oracle dba 94 2012-07-10 08:12 start_agent.sh
-rwx----- 1 oracle dba 88 2012-07-10 08:14 start_oms.sh
-rwx----- 1 oracle dba 76 2012-07-10 08:12 stop_agent.sh
-rwx----- 1 oracle dba 72 2012-07-10 08:14 stop_oms.sh
```

9.1 Start Agent

Die Agents auf den Target-Datenbank-Systemen liegen im Pfad /OraBase/agent/agent12c. Der Start erfolgt über:

```
wsudo -u oracle -s
/OraBase/agent/agent12c/agent_inst/bin/emctl start agent
```

Beim OMS System wird der Agent hiermit gestartet:

```
wsudo -u oracle -s
/OraBase/oms12c/Middleware/control/start_agent.sh
```

9.2 Stop Agent

```
wsudo -u oracle -s
/OraBase/oms12c/Middleware/control/stop_agent.sh
```

9.3 Start OMS

```
wsudo -u oracle -s
/OraBase/oms12c/Middleware/control/start_oms.sh
```

9.4 Stop OMS

```
wsudo -u oracle -s
/OraBase/oms12c/Middleware/control/stop_oms.sh
```

9.5 Autostart

Es wurde erfolgreich getestet, daß OMS und Agent nach dem Reboot automatisch starten. Hierfür wird im jeweiligen Runlevel (3 oder 5) das Script /etc/init.d/gcstartup gestartet.

10 Named-Credentials

Um das SELECT ANY DICTIONARY Privileg zu vermeiden, können bei Cloud Control 12c Named Credentials benutzt werden. Es wird ein Named Credential bestehend aus Usernamen und Passwort erstellt und gespeichert. Dieses Credential kann dann an bestimmte Benutzer zugewiesen werden, die das Credential dann benutzen können. Der entscheidende Punkt ist, daß die User das Password des Credentials nicht kennen.

Vorgehensweise:

- Erzeugung eines DB Accounts auf der Target Datenbank mit OEM_MONITOR Role.
- Erzeugung eines Cloud-Control Administrator Accounts und Hinzufügen des Target Privileges für Target Datenbank zu Administrator: Connect to Target
- Erzeugung eines „Named Credential“ für die Target-Datenbank
- Zuweisung des Named Credential an den Cloud-Control Administrator.

Beispiel:

Target Database: DB01
Target Database Account: oem/oem2012
Cloud Control Administrator: demouser/demo2012_

10.1 Erzeugung eines DB Accounts auf der Target Datenbank mit OEM_MONITOR Role.

```
SQL>create user oem identified by oem2012;  
  
User created.  
  
SQL>grant oem_monitor to oem;  
  
Grant succeeded.
```

10.2 Erzeugung eines Cloud-Control Administrator Accounts und Hinzufügen des Target Privileges für Target Datenbank zu Administrator: Connect to Target

Setup->Security-Administrators

ORACLE Enterprise Manager Cloud Control 12c

Enterprise Targets Favorites History

Search Target

Setup Help SYSMAN Log Out

Add Target
Agents
Post Upgrade Tasks
Extensibility
Proxy Settings
Security
Incidents
Notifications
Provisioning and Patching
My Oracle Support
Middleware Diagnostics
Management Services and Repository
Command Line Interface
Management Packs

Confirmation
The Administrator was deleted successfully

Administrators
Administrators are Enterprise Manager users who can login to Enterprise Manager to perform management tasks. The breadth of management tasks available in Enterprise Manager depends on the privileges and roles assigned to the administrators.

Search Go

Create Like View Edit Delete Create

Select	Name	Access	Authentication Type	Description
<input checked="" type="radio"/>	EMDECKER	Super Administrator	Repository	
<input type="radio"/>	SYS	Super Administrator	Repository	
<input type="radio"/>	SYSMAN	Repository Owner	Repository	
<input type="radio"/>	SYSMAN_00	Administrator	Repository	
<input type="radio"/>	SYSTEM	Super Administrator	Repository	

Fertig Lokales Intranet | Geschützter Modus: Inaktiv 100%

Create:

ORACLE Enterprise Manager Cloud Control 12c

Properties Roles Target Privileges Resource Privileges Review

help

Create Administrator: Properties

Cancel Step 1 of 5 Next Review

* Name demouser

* Password *****

* Confirm Password *****

Password Profile MGMT_ADMIN_USER_PROFILE View

You can create additional password profile using database admin pages

☐ Prevent password change

When checked, administrator is not allowed to change his/her own password.

☐ Expire password now

When selected, administrator account will be created with expired state. On next login, administrator will be forced to change password.

Email Address

Specify one or more e-mail addresses separated by a comma or space. If you are entering these for the first time, they will be used to create a default 24x7 notification schedule for this Administrator.

Description

☐ Super Administrator

Cancel Step 1 of 5 Next Review

Fertig Lokales Intranet | Geschützter Modus: Inaktiv 100%

ORACLE Enterprise Manager Cloud Control 12c

Properties Roles Target Privileges Resource Privileges Review

Create Administrator demouser: Roles

Cancel Back Step 2 of 5 Next Review

Roles are sets of permissions that can be applied to individual Administrators. Granting Roles is a convenient way to grant multiple privileges to this administrator. You can assign multiple roles to an administrator. Select the roles from the Available roles below to assign to the administrator.

Available Roles

- EM_ALL_ADMINISTRATOR
- EM_ALL_DESIGNER
- EM_ALL_OPERATOR
- EM_ALL_VIEWER
- EM_COMPLIANCE_DESIGNER
- EM_COMPLIANCE_OFFICER
- EM_HOST_DISCOVERY_OPERATOR
- EM_INFRASTRUCTURE_ADMIN
- EM_PATCH_ADMINISTRATOR
- EM_PATCH_DESIGNER
- EM_PATCH_OPERATOR
- EM_PLUGIN_AGENT_ADMIN
- EM_PLUGIN_OMS_ADMIN
- EM_PLUGIN_USER
- EM_PROVISIONING_DESIGNER
- EM_PROVISIONING_OPERATOR
- EM_TARGET_DISCOVERY_OPERATOR
- EM_TC_DESIGNER

Selected Roles

- EM_USER
- PUBLIC

Cancel Back Step 2 of 5 Next Review

ORACLE Enterprise Manager Cloud Control 12c

Properties Roles Target Privileges Resource Privileges Review

Create Administrator demouser: Target Privileges

Cancel Back Step 3 of 5 Next Review

Privileges applicable to all targets

Select the Privileges that you want to grant to this Enterprise Manager Administrator. These Privileges give the administrator the right to perform particular management actions on a class of targets.

Select	Name	Description	Included Privileges	Applicable Target Types
<input type="checkbox"/>	Use any Beacon	Use any Beacon on any monitored host to monitor transactions, URLs, and network components. Beacon is installed with the Oracle Agent.		All Target Types
<input type="checkbox"/>	Connect to any viewable target	Ability to connect and manage any of the viewable target		All Target Types
<input type="checkbox"/>	Add any Target	Add any target in Enterprise Manager		All Target Types
<input type="checkbox"/>	Full any Target	Ability to perform all administrative operations on all the targets, that includes target deletion	Operator any Target	All Target Types
<input type="checkbox"/>	Operator any Target	Ability to perform administrative operations on all managed targets	View any Target	All Target Types
<input type="checkbox"/>	Execute Command Anywhere	Execute any OS Command at any Agent		Host
<input type="checkbox"/>	Execute Command as any Agent	Execute any OS Command as the Agent User at any Agent		Agent
<input type="checkbox"/>	Put File as any Agent	Put any File to any Agent's Filesystem as the Agent User		Agent
<input type="checkbox"/>	View any Target	Ability to view all managed targets in Enterprise Manager	Monitor Enterprise Manager	All Target Types
<input type="checkbox"/>	Create Privilege Propagating Group	Ability to create privilege propagating groups. Privileges granted on a privilege propagating group will be automatically granted on the members of the group	Add any Target	All Target Types
<input type="checkbox"/>	Monitor Enterprise Manager	Monitor Enterprise Manager performance		All Target Types

Target Privileges

Target Privileges give the Administrator the right to perform particular actions on targets. Table below shows privileges on the targets which would be granted to the Administrator

Name: Type: All target types Go Clear

Add

Select	Name	Type	Manage Target Privilege Grants
<input type="checkbox"/>	No target privileges are granted		

Cancel Back Step 3 of 5 Next Review

Target Privileges: Add

Alternativ kann hier auch eine Gruppe angegeben werden.

ACHTUNG: Bei Verwendung einer Gruppe muss die Gruppe die Einstellung „Privilege Propagation“ aktiviert haben. Das bedeutet, daß Privilegien bei User->Gruppen Zuteilungen von der Gruppe zu den Targets der Gruppe (DBs) propagiert werden.

(Oracle **SR 3-5947906141**)

Dokumentation:

Enterprise Manager Groups allows users to create groups of targets to monitor and manage as one. It is possible for the owner of a group, at the time of group creation, to specify the group

to be Privilege propagating group. User creating Privilege propagating group must have full privileges on member targets. Alternatively, it is possible to create regular groups that are not Privilege propagating.

Privilege propagation groups enable administrators to grant privileges to other administrators in a manner where new administrators get the same privileges as its member targets. For example, granting Operator privilege on a Group to an Administrator will grant him Operator privilege on its member targets as well. Privilege Propagating Groups can contain individual targets.

Target Privilege Grant:

Connect Target Read-Only

ORACLE Enterprise Manager Cloud Control 12c Help

Properties Roles **Target Privileges** Resource Privileges Review

Create Administrator demouser: Target Privileges Cancel Continue

Select the Target Privileges that you want to grant to this Enterprise Manager administrator. Target Privileges give the administrator the right to perform particular actions on targets selected on the previous page.

Search Go Clear

Select All | Select None

Select	Name	Description	Included Privileges	Applicable Target Types
<input type="checkbox"/>	Full	Ability to do all operations on the target, including delete the target	Connect Target Deploy Fusion Middleware Operator	All Target Types
<input type="checkbox"/>	Connect Target	Ability to connect and manage target	Connect Target Read-only	All Target Types
<input checked="" type="checkbox"/>	Connect Target Read-only	Ability to connect to target in read-only mode	View	All Target Types
<input type="checkbox"/>	Deploy Fusion Middleware	Ability to deploy Fusion Middleware components		All Target Types
<input type="checkbox"/>	Operator	Ability to do normal administrative operations on the target, such as configure a blackout and edit the target properties	Blackout Target Configure Target Operator Fusion Middleware Manage Target Events Manage Target Compliance Manage Target Metrics Manage Target Patch Manage Template Collection Operations Execute Command View	All Target Types
<input type="checkbox"/>	Blackout Target	Ability to create, edit, schedule and stop a blackout on the target	View	All Target Types
<input type="checkbox"/>	Manage Target Metrics	Ability to edit threshold for metric and policy setting, apply monitoring templates, and manage User Defined Metrics	View	All Target Types
<input type="checkbox"/>	Manage Target Patch	Privilege to Analyze, Apply and Rollback patches on the target	Blackout Target	All Target Types
<input type="checkbox"/>	Configure Target	Ability to edit target properties and modify monitoring configuration	View	All Target Types
<input type="checkbox"/>	Manage Target Events	Ability to clear events, re-evaluate metric alert events, create incidents, add events to incidents, and define what actions the administrator can perform on individual incidents, such as acknowledgment or escalation.	View	All Target Types
<input type="checkbox"/>	Manage Target Compliance	Ability to manage compliance of the target		All Target Types
<input checked="" type="checkbox"/>	View	Ability to view properties, inventory and monitor information about a target		All Target Types
<input type="checkbox"/>	Ability to view Fusion Middleware Logs	Ability to view Fusion Middleware logs data		All Target Types
<input type="checkbox"/>	Process Control Fusion Middleware Target	Ability to start or shutdown Fusion Middleware target		All Target Types
<input type="checkbox"/>	Operator Fusion Middleware	Ability to perform operations, such as start and shutdown and view logs for Fusion Middleware targets	Process Control Fusion Middleware View Fusion Middleware logs	All Target Types

Cancel Continue

Fertig Lokales Intranet | Geschützter Modus: Inaktiv 100%

ORACLE Enterprise Manager Cloud Control 12c Setup Help SYSMAN Log Out

Enterprise Targets Favorites History Search Target Name

Properties Roles **Target Privileges** Resource Privileges Review

Create Administrator demouser: Target Privileges Cancel Back Step 3 of 5 Next Review

Privileges applicable to all targets
Select the Privileges that you want to grant to this Enterprise Manager Administrator. These Privileges give the administrator the right to perform particular management actions on a class of targets.

Select	Name	Description	Included Privileges	Applicable Target Types
<input type="checkbox"/>	Use any Beacon	Use any Beacon on any monitored host to monitor transactions, URLs, and network components. Beacon is installed with the Oracle Agent.		All Target Types
<input type="checkbox"/>	Connect to any viewable target	Ability to connect and manage any of the viewable target		All Target Types
<input type="checkbox"/>	Add any Target	Add any target in Enterprise Manager		All Target Types
<input type="checkbox"/>	Full any Target	Ability to perform all administrative operations on all the targets, that includes target deletion	Operator any Target	All Target Types
<input type="checkbox"/>	Operator any Target	Ability to perform administrative operations on all managed targets	View any Target	All Target Types
<input type="checkbox"/>	Execute Command Anywhere	Execute any OS Command at any Agent		Host
<input type="checkbox"/>	Execute Command as any Agent	Execute any OS Command as the Agent User at any Agent		Agent
<input type="checkbox"/>	Put File as any Agent	Put any File to any Agent's Filesystem as the Agent User		Agent
<input type="checkbox"/>	View any Target	Ability to view all managed targets in Enterprise Manager	Monitor Enterprise Manager	All Target Types
<input type="checkbox"/>	Create Privilege Propagating Group	Ability to create privilege propagating groups.Privileges granted on a privilege propagating group will be automatically granted on the members of the group	Add any Target	All Target Types
<input type="checkbox"/>	Monitor Enterprise Manager	Monitor Enterprise Manager performance		All Target Types

ORACLE Enterprise Manager Cloud Control 12c Setup Help SYSMAN Log Out

Enterprise Targets Favorites History Search Target Name

Properties Roles Target Privileges **Resource Privileges** Review

Create Administrator demouser: Resource Privileges Cancel Back Step 4 of 5 Next Review

For each of the resource types in the list below, identify specific privileges to be explicitly granted on "all resources" level or individual resources to grant

Resource Type	Description	Privilege Grants Applicable to all Resources	Number of Resources with Privilege Grants	Manage Privilege Grants
Access	Defines the access to different application in Enterprise Manager Cloud Control	-	NA	
Application Replay Entities	Application Replay Entities include captures, replay tasks, and replays.	-	NA	
Backup Configurations	Security Class for System Backup/Recovery Manager.	-	-	
Change Plan Security Class	Security behavior for Change Plans	-	-	
Cloud Policy	Defines access privileges for Cloud Policies	-	-	
Cloud Policy Group	Defines access privileges for Cloud Policy Groups	-	-	
Compliance Framework	Compliance Framework provides capability to define/customize/manage compliance frameworks, and compliance standards/rules and evaluate compliance of targets/systems with regards to business best practices for configuration/security/storage etc.	-	NA	
Custom Configurations	Custom Configurations allow extending target configuration collections	-	NA	
Deployment Procedure	Deployment procedures are customizable orchestration routines for various Provisioning and Patching tasks	-	-	
Discovery Security Class	Discovery Security Class	-	NA	
EM Plug-in	Manage the access control for Enterprise Manager plug-ins	-	NA	
Enterprise Manager High Availability	Enterprise Manager High Availability Administration allows to add additional management service through deployment procedure.	-	NA	
Enterprise Rule Set	Collection of rules that apply to Enterprise Manager elements, for example, targets and job. Individual rules can be used to send notifications, create incidents, update incidents, and other incident-management related actions.	-	-	
Fusion Middleware Offline Diagnostics	Fusion Middleware Offline Diagnostics Security Class	-	NA	
JVM Diagnostics	JVM Diagnostics allows users to monitor any java target	-	NA	
Job System	Job is a schedulable unit of work that administrator defines to automate the commonly run tasks	-	-	
Metric Extensions	Metric Extensions allows extending monitoring for a target type by adding new metrics	-	-	
Named Credential	Credentials to perform Enterprise Manager Administrative Operations	-	-	
Patch Plan	A patch plan is a collection of patches which you might want to consider applying as a group to one or more targets	-	NA	
Report	Reports of Enterprise Manager management and monitoring data	-	NA	
Request monitoring	The Request Monitoring feature provides end-to-end visibility into requests for Java applications	-	NA	
Self Update	Self Update allows administrators to receive notifications and view, download and apply new functionality and updates for existing features in Enterprise Manager	-	NA	
Software Library Administration	Defines the access privileges required for the administration of Software Library	-	NA	
Software Library Entity	Defines the access privileges required for managing the lifecycle of Software Library entities	-	-	
Template	Template is collective settings of thresholds and collection schedule of metrics for a target type that	-	-	

Fertig Lokales Intranet | Geschützter Modus: Inaktiv 100%

ORACLE Enterprise Manager Cloud Control 12c Setup Help SYSMAN Log Out

Enterprise Targets Favorites History Search Target Name

Properties Roles Target Privileges Resource Privileges **Review**

Create Administrator demouser: Review Cancel Back Step 5 of 5 Finish

Properties

Name demouser
Password Profile NONT_ADMIN_USER_PROFILE
Prevent password change No
Expire password now No
E-mail Address No Email address is defined for this administrator.
Description
Super Administrator No

Roles

Name	Description
EM_USER	Role Desc
PUBLIC	PUBLIC role is granted to all administrators. This role can be customized at site level to group privileges that need to be granted to all administrators

Target Privileges

Privileges applicable to all targets

Name	Description
No target resource type privileges are granted	

Target Privileges

Name	Type	Manage Target Privilege Grants	Connect Target Read-only
MP01.WORLD	Database Instance		

Resource Privileges

Resource Type	Description	Privilege Grants Applicable to all Resources	Number of Resources with Privilege Grants	View Privilege Grants
No Privileges are granted explicitly				

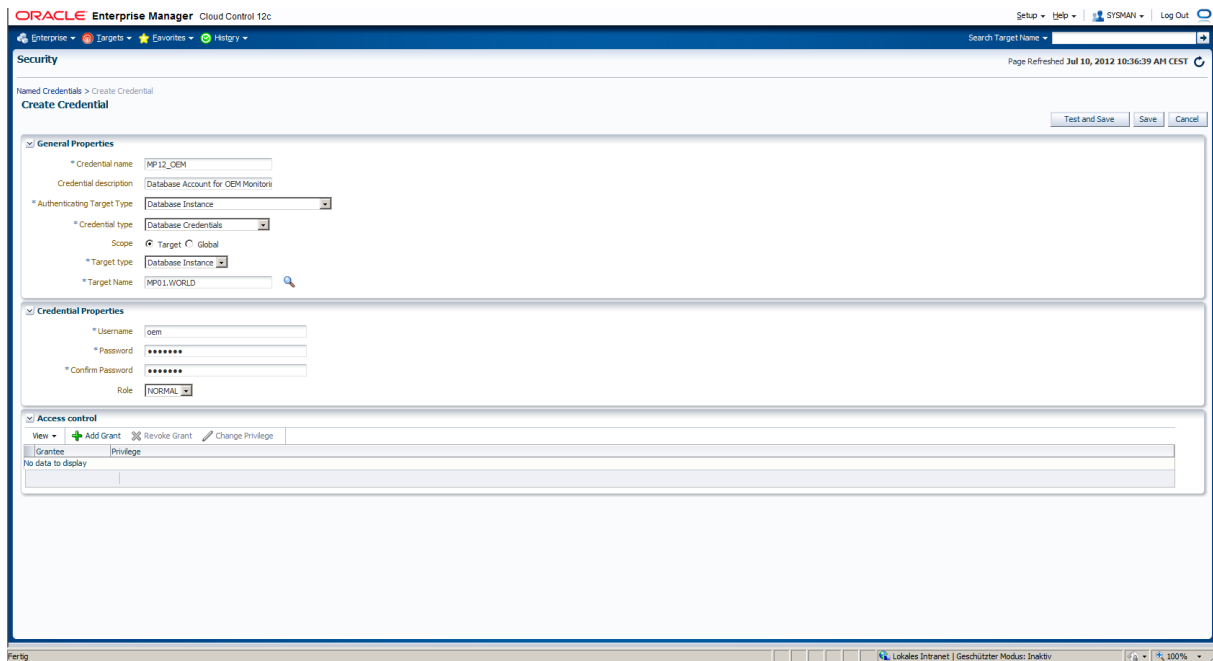
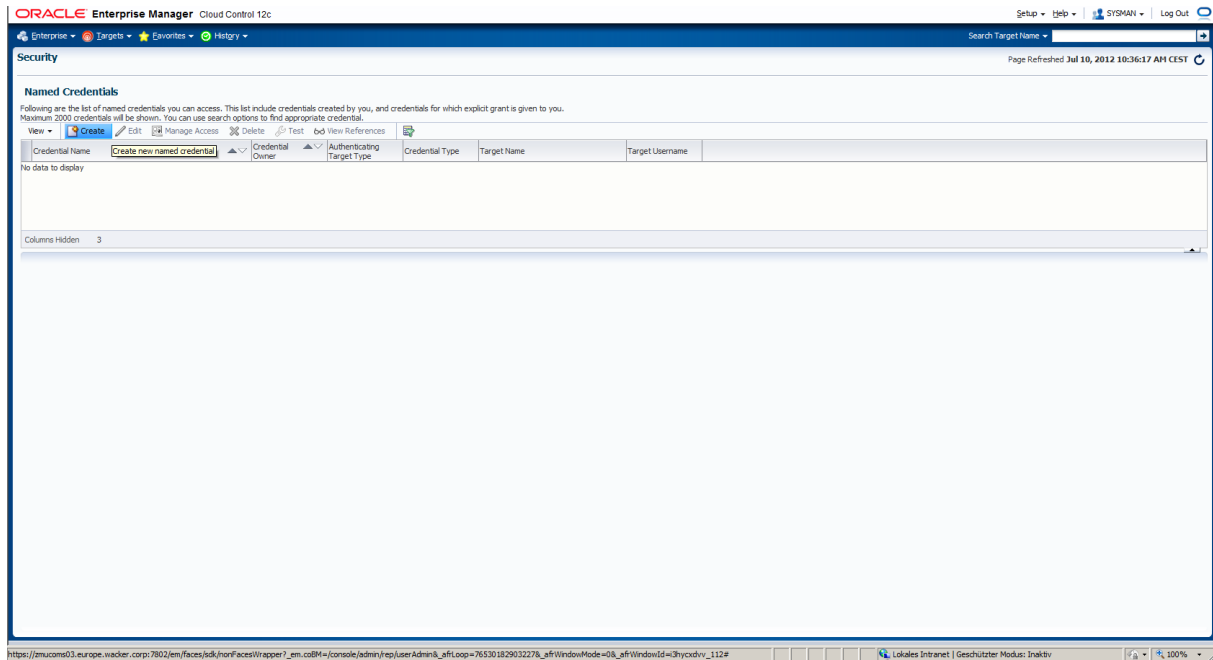
* "NA" Represents that no privilege is registered for the Resource Type
* "-" Represents that no privilege is granted to user on the Resource Type

Cancel Back Step 5 of 5 Finish

Fertig Lokales Intranet | Geschützter Modus: Inaktiv 100%

10.3 Erzeugung eines „Named Credential“ für die Target-Datenbank

Setup -> Security -> Named Credentials -> Create

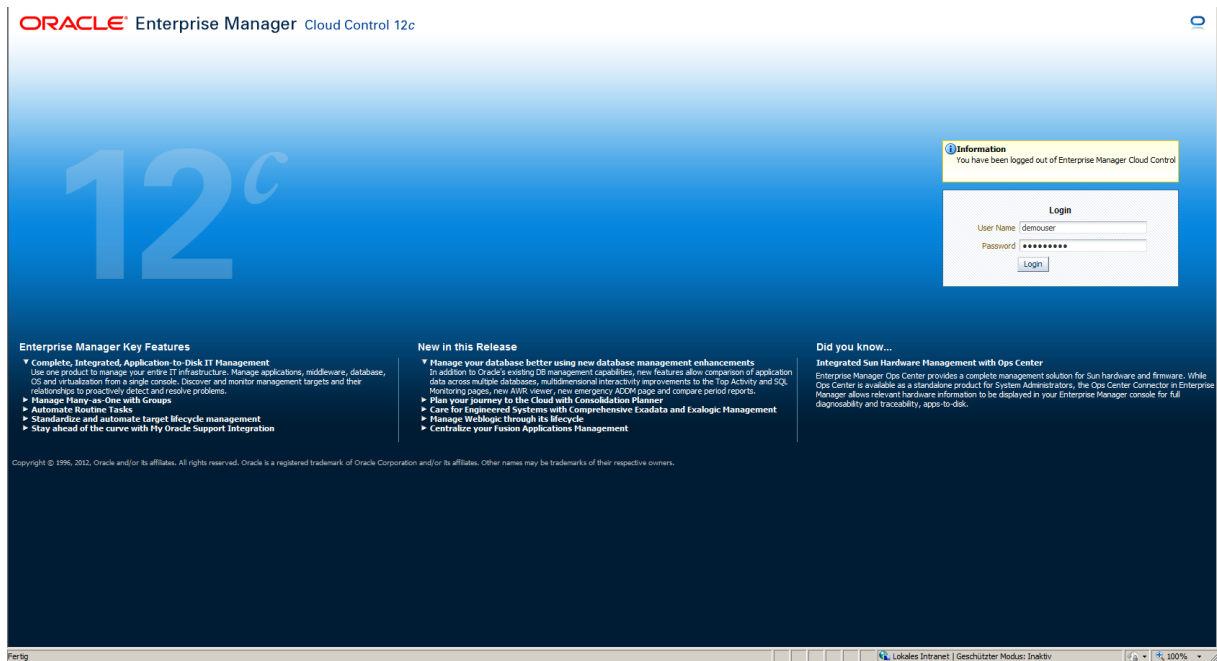


Test and Save

10.4 Zuweisung des Named Credential an den Cloud-Control Administrator.

Manage Access -> Add Grant

10.5 Funktionsweise des Named Credential:



11 Cloud Control Logfiles

11.1 OMS Logfiles

11.2 Agent Logfiles

/OraBase/agent/agent12c/agent_inst/sysman/log/

12 Upgrade auf Cloud Control 12cR2 (12.1.0.2)

12.1 OMS Upgrade

```
/OraBase/oms12c/Middleware/control  
./OMS.env
```

emctl status emkey

Oracle Enterprise Manager Cloud Control 12c Release 12.1.0.1.0
Copyright (c) 1996, 2012 Oracle Corporation. All rights reserved.
Enter Enterprise Manager Root (SYSMAN) Password :
The EMKey is configured properly.

emctl config emkey -copy_to_repos

Oracle Enterprise Manager Cloud Control 12c Release 12.1.0.1.0
Copyright (c) 1996, 2012 Oracle Corporation. All rights reserved.
Enter Enterprise Manager Root (SYSMAN) Password :
The EMKey has been copied to the Management Repository. This operation will cause the EMKey to become unsecure.
After the required operation has been completed, secure the EMKey by running "emctl config emkey -remove_from_repos".

emctl status emkey

Oracle Enterprise Manager Cloud Control 12c Release 12.1.0.1.0
Copyright (c) 1996, 2012 Oracle Corporation. All rights reserved.
Enter Enterprise Manager Root (SYSMAN) Password :
The EMKey is configured properly, but is not secure. Secure the EMKey by running "emctl config emkey -remove_from_repos".

```
./AGENT.env  
emctl stop agent  
Oracle Enterprise Manager 12c Cloud Control 12.1.0.1.0  
Copyright (c) 1996, 2012 Oracle Corporation. All rights reserved.  
Stopping agent ..... stopped.
```

```
./runInstaller
```

```
SQL:>alter system set sec_case_sensitive_logon=false ;
```

System altered.

(EM 12c: Upgrade From 12.1.0.1 To 12.1.0.2 Fails With Error: "Failed to create OPSS schema" [ID 1496801.1])

Oracle Enterprise Manager Cloud Control 12c Release 2 Installation - Step 1 of 9

My Oracle Support Details

ORACLE® Enterprise Manager Cloud Control 12c

My Oracle Support Details

Software Updates

Prerequisite Checks

Installation Types

Installation Details

Configuration Details

Review

Install Progress

Finish

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

Email:

Easier for you if you use your My Oracle Support email address/username.

☐ I wish to receive security updates via My Oracle Support.

My Oracle Support Password:

Help

Installed Products

< Back

Next >

Install

Cancel

Oracle Enterprise Manager Cloud Control 12c Release 2 Installation - Step 2 of 9

Software Updates

ORACLE® Enterprise Manager Cloud Control 12c

- [My Oracle Support Details](#)
- Software Updates**
- [Prerequisite Checks](#)
- Installation Types
- Installation Details
- Configuration Details
- Review
- Install Progress
- Finish

☒ Skip

☐ Search for Updates (Prerequisites, Critical Patches, Interim Patches, etc.)

☐ Local Directory

☒ My Oracle Support (Requires Internet Connection)

Messages:

Oracle Enterprise Manager Cloud Control 12c Release 2 Installation - Step 3 of 9

Prerequisite Checks

My Oracle Support Details

Software Updates

Prerequisite Checks

Installation Types

Installation Details

Configuration Details

Review

Install Progress

Finish

ORACLE Enterprise Manager Cloud Control 12c

Prerequisite checks verify that your environment meets all minimum requirements for installing and configuring your selected product

Rerun

Ignore

Prerequisite Name	Status
Checking if Oracle software certified on the current O/S...	Succeeded
Checking for required packages installed on the system	Ignored
Checking whether required GLIBC installed on the system	Succeeded
Checking for sufficient disk space in TEMP location...	Succeeded
Checking for sufficient disk space in Inventory location...	Succeeded
Checking whether the software is compatible for current O/S...	Succeeded
Checking TimeZone settings...	Succeeded
Checking for sufficient physical memory...	Succeeded
Checking for sufficient swap space...	Succeeded
Checking for required ulimit value...	Succeeded
Checking for the Hostname...	Succeeded
Checking for LD_ASSUME_KERNEL environment variable...	Succeeded

Checking if Oracle software certified on the current O/S...

Description:

This is a prerequisite condition to test whether the Oracle software is certified on the current O/S or not.

Expected result: One of
enterprise-5.6,enterprise-6.2,enterprise-6.0,redhat-6.2,redhat-6.0,redhat-5.6,enterprise-5.5,enterprise-5.4,enterprise-5.3,enterprise-5.2,enterprise-5.1,enterprise-5,asianux-3,redhat-5.5,redhat-5.4,redhat-5.3,redhat-5.3,redhat-5.2,redhat-5.1,redhat-5,SuSE-11,SuSE-10

Actual Result: SuSE-11

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

Help

Installed Products

< Back

Next >

Install

Cancel

Oracle Enterprise Manager Cloud Control 12c Release 2 Installation - Step 4 of 11

Installation Types

My Oracle Support Details

Software Updates

Prerequisite Checks

Installation Types

Installation Details

Database Connection Details

Plug-in Deployment

WebLogic Server Configuration

Review

Install Progress

Finish

ORACLE Enterprise Manager Cloud Control 12c

☐ Create a new Enterprise Manager System

☒ Simple
 ☐ Advanced

☒ Upgrade an existing Enterprise Manager System

☐ Two System Upgrade
 ☒ One System Upgrade

Following are the Enterprise Management servers detected, select Management server you want to upgrade

Select	Installed Oracle Homes	Version
<input checked="" type="radio"/>	/OraBase/oms12c/Middleware	12.1.0.1.0

☐ Install software only
(Installs only the software binaries. Lets you configure or upgrade at a later stage.)

Messages:

Help

Installed Products

< Back

Next >

Install

Cancel

Oracle Enterprise Manager Cloud Control 12c Release 2 Installation - Step 5 of 11

Installation Details

My Oracle Support Details

Software Updates

Prerequisite Checks

Installation Types

Installation Details

Database Connection Details

Plug-in Deployment

WebLogic Server Configuration

Review

Install Progress

Finish

ORACLE Enterprise Manager Cloud Control 12c

Middleware Home Location

/OraBase/oms12c/Middleware_12cR2

Browse...

Host Name

zmucoms03.europe.wacker.corp

Messages:

☒ Middleware Home Location: Oracle Middleware Home location cannot be null.

Help

Installed Products

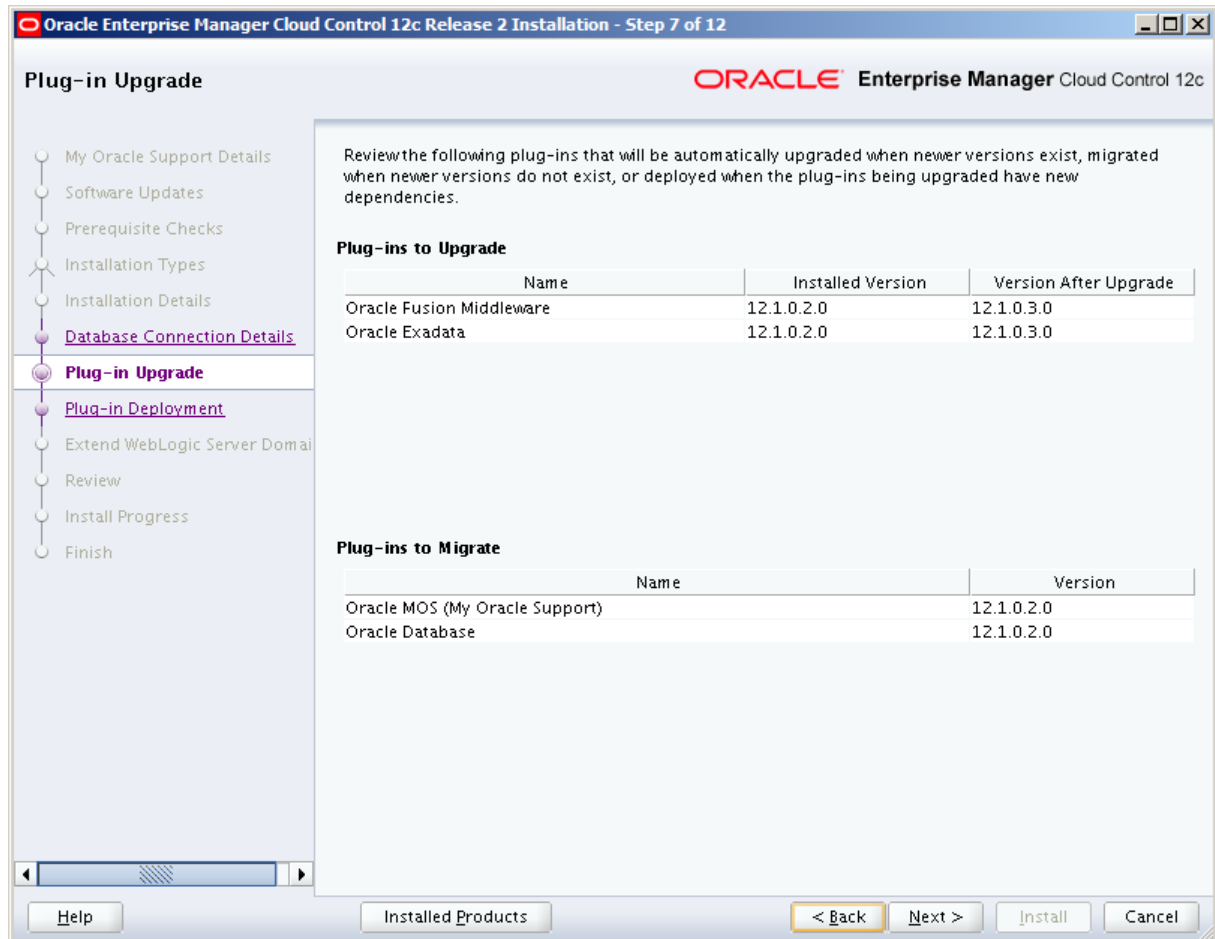
< Back

Next >

Install

Cancel

emctl stop oms



Oracle Enterprise Manager Cloud Control 12c Release 2 Installation - Step 8 of 12

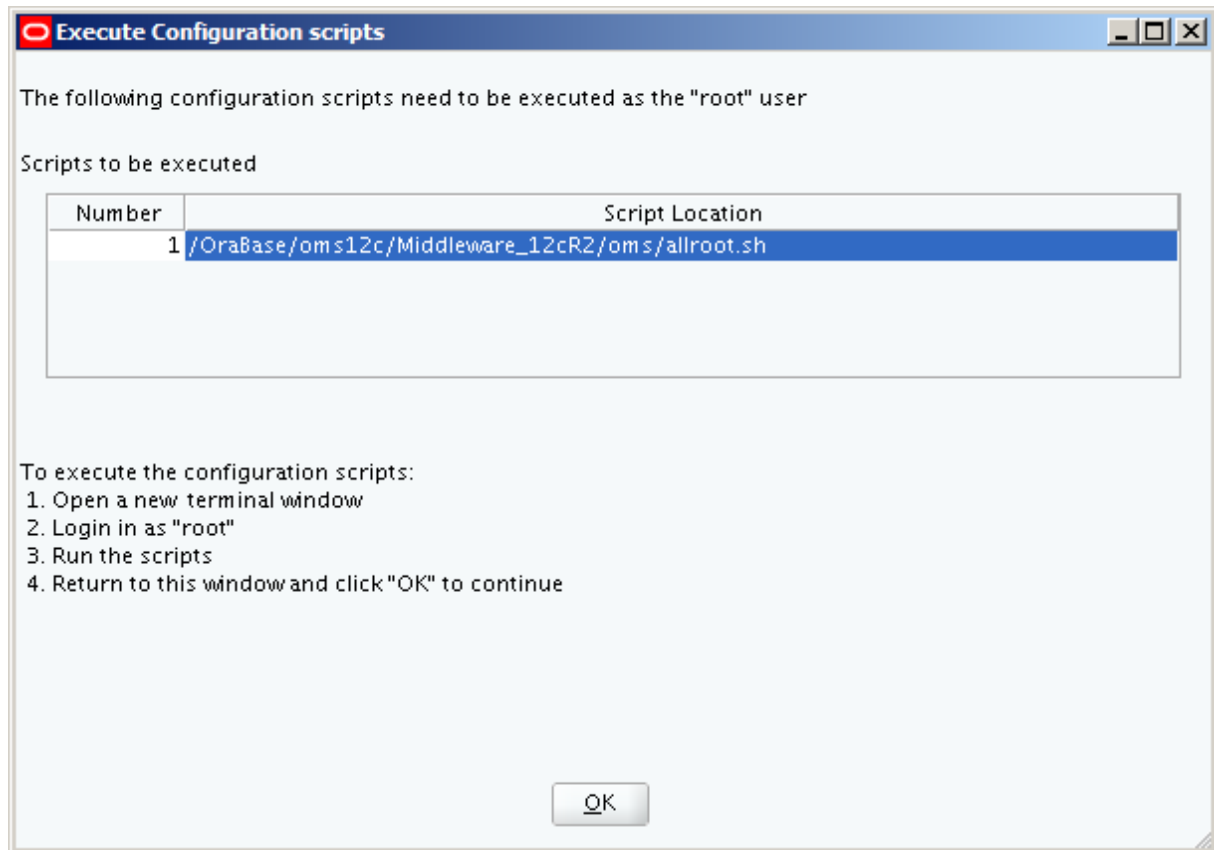
Plug-in Deployment

ORACLE Enterprise Manager Cloud Control 12c

Select the additional plug-ins you want to deploy while upgrading the Enterprise Manager system.

Select	Name	Version
<input type="checkbox"/>	Apache Tomcat	12.1.0.1.0
<input type="checkbox"/>	EMC CLARiiON Array	12.1.0.2.0
<input type="checkbox"/>	EMC Celerra Storage	12.1.0.2.0
<input type="checkbox"/>	EMC Symmetrix Array	12.1.0.2.0
<input type="checkbox"/>	Exalogic Elastic Cloud Infrastructure	12.1.0.1.0
<input type="checkbox"/>	IBM DB2 Database	12.1.0.2.0
<input type="checkbox"/>	Microsoft .Net Framework	12.1.0.1.0
<input type="checkbox"/>	Microsoft Active Directory	12.1.0.1.0
<input type="checkbox"/>	Microsoft Biz Talk Server	12.1.0.1.0
<input type="checkbox"/>	Microsoft IIS	12.1.0.1.0
<input type="checkbox"/>	Microsoft SQLServer Database	12.1.0.2.0
<input type="checkbox"/>	Oracle Audit Vault	12.1.0.2.0
<input type="checkbox"/>	Oracle Chargeback and Capacity Planning	12.1.0.3.0
<input type="checkbox"/>	Oracle Cloud Application	12.1.0.4.0
<input type="checkbox"/>	Oracle Exadata Healthchecks	12.1.0.2.0
<input type="checkbox"/>	Oracle Fusion Applications	12.1.0.3.0
<input type="checkbox"/>	Oracle Siebel	12.1.0.2.0
<input type="checkbox"/>	Oracle Virtualization	12.1.0.3.0
<input type="checkbox"/>	Sybase ASE Database	12.1.0.2.0

Help Installed Products < Back Next > Install Cancel



```
/OraBase/oms12c/Middleware_12cR2/oms # ./allroot.sh
```

```
Starting to execute allroot.sh .....
```

```
Starting to execute /OraBase/oms12c/Middleware_12cR2/oms/root.sh .....
Running Oracle 11g root.sh script...
```

The following environment variables are set as:

```
ORACLE_OWNER= oracle
```

```
ORACLE_HOME= /OraBase/oms12c/Middleware_12cR2/oms
```

Enter the full pathname of the local bin directory: [/usr/local/bin]:

The file "dbhome" already exists in /usr/local/bin. Overwrite it? (y/n)

[n]:

The file "oraenv" already exists in /usr/local/bin. Overwrite it? (y/n)

[n]:

The file "coraenv" already exists in /usr/local/bin. Overwrite it? (y/n)

[n]:

Entries will be added to the /etc/oratab file as needed by

Database Configuration Assistant when a database is created

Finished running generic part of root.sh script.

Now product-specific root actions will be performed.

/etc exist

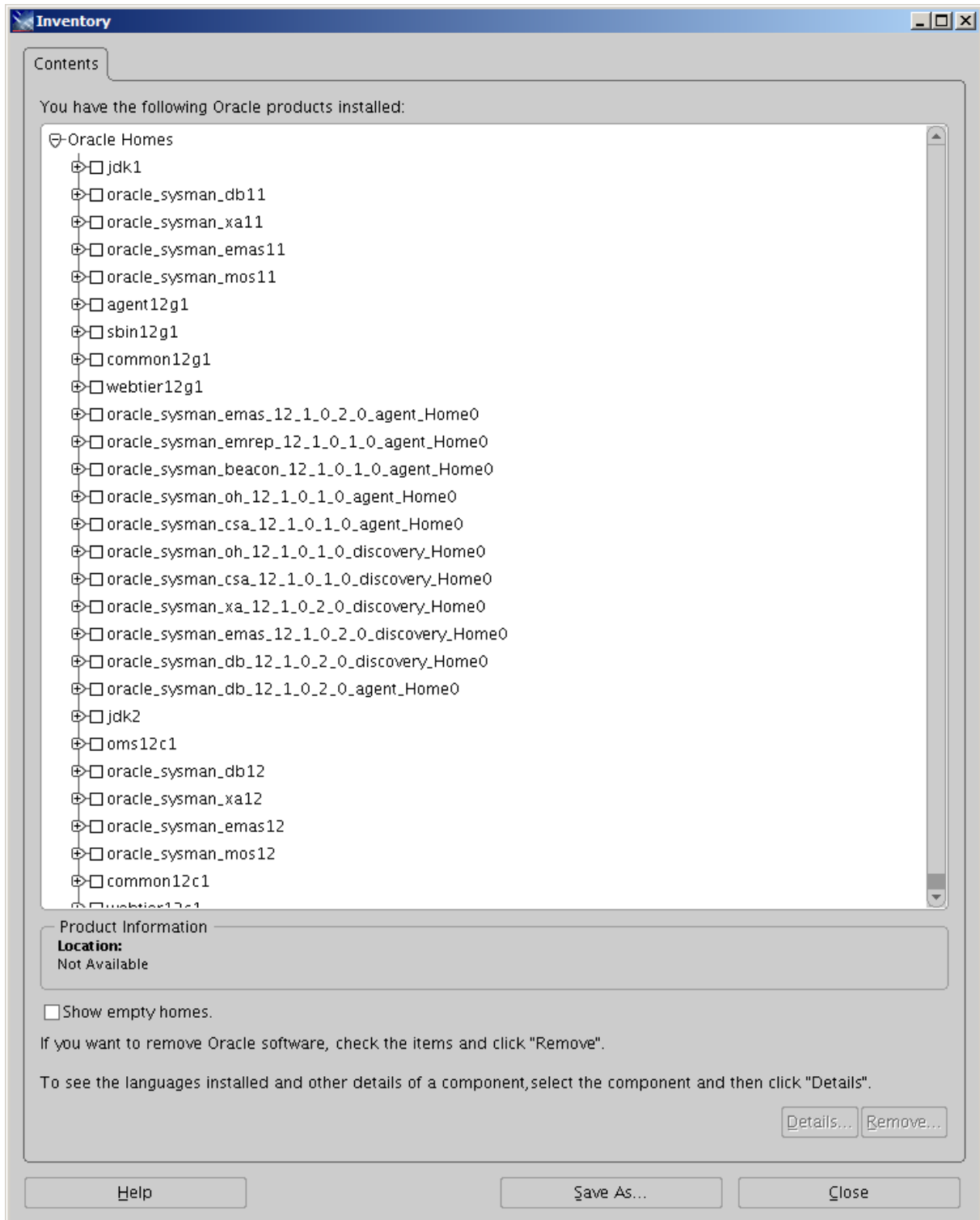
```
/OraBase/oms12c/Middleware_12cR2/oms
```

```
Finished execution of /OraBase/oms12c/Middleware_12cR2/oms/root.sh .....
```

12.2 OMS 12.1.0.1 Home entfernen

\$ORACLE_HOME/oui/bin/runInstaller -deinstall

ORACLE_HOME=/OraBase/oms12c/Middleware/oms -removeAllFiles



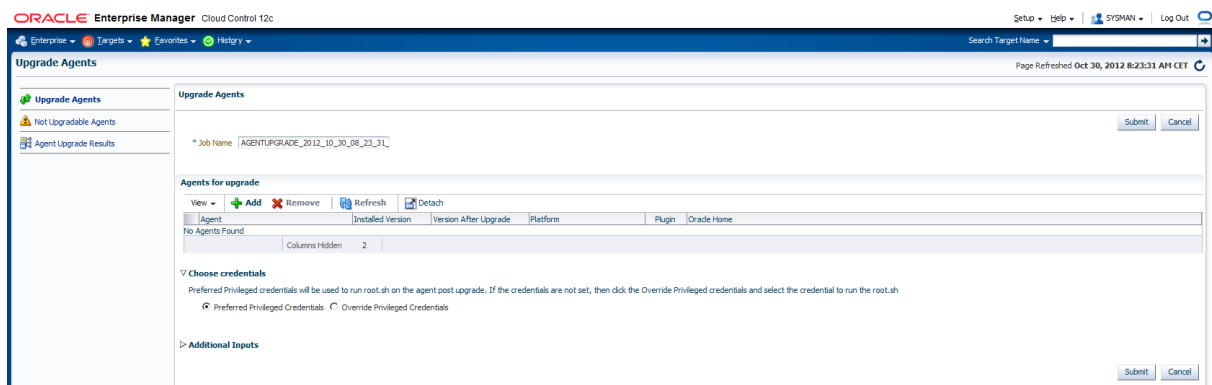
12.3 Software Library verschieben

von: /OraBase/oms12c/Middleware/OMS12c_SWLIB
nach: /OraBase/oms12c/software_library

Damit ist es möglich, das Middleware Home /OraBase/oms12c/Middleware nach dem Upgrade zu entfernen.

12.4 Agent Updates

Setup -> Manage Cloud Control -> Upgrade Agents



root.sh

Nach dem Upgrade des Agents kann der Inhalt des Verzeichnisses 12.1.0.1.0 gelöscht werden:

```
rm -rf /OraBase/agent/agent12c/core/12.1.0.1.0/*
```

Das Verzeichnis an sich muss bestehen bleiben, weil im Inventory mit relativen Pfaden gearbeitet wird:

```
cat /OraBase/oraInventory/ContentsXML/inventory.xml
```

```
<REFHOME
LOC="/OraBase/agent/agent12c/core/12.1.0.1.0/../../plugins/oracle.sysman.db.agent.plugin_12.1.0.2.0"/>
```

12.5 Update DB Plugin

Installation OMS Plugin Patch 14340329

```
export
```

```
PLUGIN_HOME=/OraBase/oms12c/Middleware_12cR2/plugins/oracle.sysman.db.oms.plugin_12.1.0.2.0
```

```
emctl stop oms
```

```
opatch napply -oh $PLUGIN_HOME
```

```
emctl applypatch repos -patchHome /tmp/14340329/14336159 -pluginHome  
$PLUGIN_HOME Oracle Enterprise Manager  
Cloud Control 12c Release 2
```

```
emctl register oms metadata -service swlib -file $PLUGIN_HOME/metadata/swlib -pluginId  
oracle.sysman.db
```

```
emctl register oms metadata -service procedures -file  
$PLUGIN_HOME/metadata/procedures/ExtendClusterNG.xml -pluginId oracle.sysman.db
```

```
emctl register oms metadata -service procedures -file  
$PLUGIN_HOME/metadata/procedures/provsidb.xml -pluginId oracle.sysman.db  
Oracle Enterprise Manager Cloud Control 12c Release 2
```

```
emctl register oms metadata -service preNGProcedures -file  
$PLUGIN_HOME/metadata/preNGProcedures/RACProvisionWIN.xml -pluginId  
oracle.sysman.db
```

```
emctl start oms
```

How to Deploy the Latest Database Plugin to the OMS and the Agent in 12C Cloud Control
[ID 1388143.1]

12.6 Download neue Agent Version für zukünftige Neu-Installationen

Setup -> Extensibility -> Self Update -> Agent Software

Wenn neue Version aufgelistet wird, aber auf Status "Available" steht:

- ➔ Zeile markieren
- ➔ Download
- ➔ Fenster mit Anweisungen öffnet sich: z.b:
- ➔ **https://updates.oracle.com/Orion/Services/download/p14570366_112000_Generic.zip?aru=15465138&patch_file=p14570366_112000_Generic.zip**
- ➔ Transferieren auf OMS Node
- ➔ `emcli import_update -omslocal -file=/tmp/p14570366_112000_Generic.zip`:
Processing update: Agent Software - Agent Software (12.1.0.2.0) for Linux x86-64
- ➔ Operation completed successfully. Update has been uploaded to Enterprise Manager. Please use the Self Update Home to manage this update.
- ➔ Status wechselt zu „Downloaded“ -> Apply -> Agent Software wird in Software Library gespeichert und steht nun zur Installation für neue Agenten zu Verfügung.

13 Referenz

MOS Notes:

12c Agent Java Process Consuming high CPU Usage [ID 1466440.1]

12C AGENT METRIC ERROR: TOO_MANY_OPEN_FILES [ID 1472085.1]

EM 12c: Deploying 12.1.0.2 DB Plugin on Suse 10 64-bit server fails with "java.io.IOException: Broken pipe" [ID 1468543.1]

Agent machine is SUSE Linux Enterprise Server 10 (x86_64).
Linux 64 bit agent is deployed on this SUSE 10 64 bit platform.

As per the certification matrix, 32-bit Agent needs to be installed on Suse 10 64-bit server.

Enterprise Manager Base Platform - Agent 12.1.0.1.0 with Linux x86-64 SLES 10

Linux 32bit agent is certified on SLES 10 x86-64

EM 12c: OMS Failed to start After restarting the Repository Database or reboot of the server [ID 1459936.1]

Patch 13466904

EM 12c: Is Agent Relinking required after upgrading the Operating System of the host where Agent is installed ? [ID 1472189.1]

As the EM 12c Agent is Java-based (unlike 10g / 11g Agent which used C language), you do not need to relink the Agent libraries after OS upgrade.

EM 12c: Agent Deployment On Multiple Hosts Fails With "Unable to proceed because you have added duplicate hosts". [ID 1469720.1]

Download and Apply Patch 13859453 (File name p13859453_121011_Generic.zip) on top of 12c OMS + Bundle Patch 1

12c Cloud Control: Applying Patch 13692486 Conflicting With Patch 13653571 [ID 1473451.1]

Download and Apply MLR patch 14209224 from MOS and apply it on OMS.

Setting Threshold Alert For Tablespace In Oem 12c Fails with ORA-13900 [ID 1401766.1]

Bug 13446042 is fixed in release 4 of the 12c Database plugin (12.1.0.4). There is no backport out yet, if one is required, log a new SR with Oracle Support.

**FAQ: Enterprise Manager Cloud Control 12c Availability / Certification / Install / Upgrade
Frequently Asked Questions [ID 1363863.1]**

Enterprise Manager Patches required for setting up Provisioning, Patching and Cloning [ID 427577.1]

13.1.1 OMS Patches Required for Setting up Provisioning in Cloud Control 12.1

1. Patch 13906113 -
DATABASE PATCHING BUNDLE FOR DB (OMS) PLUGIN 12.1.0.2 (JUNE 2012)

2 . Patch 13906147 -
MOS PATCHING BUNDLE FOR MOS (OMS) PLUGIN 12.1.0.2 (APR 2012)

See 12c Bundle PDF for more details.

Bug 14340980: ALL METRICS LINK FOR HOST TARGET REQUIRES WLS MANAGEMENT PACK EE ACCESS.

Workaround: WLS Management Pack EE für Host Targets solange Bugfix nicht verfügbar.