ORACLE EBS R12.1.3 CLONE报告

1. **Title, Subject, Last Updated Date, Reference Number**, **and** **Version** are marked by a Word Bookmark so that they can be easily reproduced in the header and footer of documents. When you change any of these values, be careful not to accidentally delete the bookmark. **You can make bookmarks visible by selecting Tools->Options…View and checking the Bookmarks option in the Show region.**

**审批签字:**

|  |  |
| --- | --- |
| 项目经理 |  |
| HAND项目经理 |  |

1. To add additional approval lines, press [Tab] from the last cell in the table above.

Copy Number \_\_\_\_\_

1. You can delete any elements of this cover page that you do not need for your document. For example, Copy Number is only required if this is a controlled document and you need to track each copy that you distribute.

## 文档控制

**修改记录**

1

| 日期 | 作者 | 版本 | 修改参考 |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**审阅**

| 姓名 | 职位 |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**分发**

| 拷贝 | 姓名 | 地点 |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. The copy numbers referenced above should be written into the **Copy Number** space on the cover of each distributed copy. If the document is not controlled, you can delete this table, the Note To Holders, and the **Copy Number** label from the cover page.

目录

[文档控制 ii](#_Toc345514065)

[Prepare the Source System 1](#_Toc345514066)

[要点 1](#_Toc345514067)

[Prepare操作 1](#_Toc345514068)

[Copy EBS files 5](#_Toc345514069)

[要点 5](#_Toc345514070)

[Configure the Target System 7](#_Toc345514071)

[要点： 7](#_Toc345514072)

[clone操作 8](#_Toc345514073)

[Clone后的调整 13](#_Toc345514074)

1. To update the table of contents, put the cursor anywhere in the table and press [F9]. To change the number of levels displayed, select the menu option Insert‑>Index and Tables, make sure the Table of Contents tab is active, and change the Number of Levels to a new value.

## Prepare the Source System

### 要点

1. prepare操作，需要source环境处于Database running的状态。
2. prepare操作，可以在EBS所有服务处于运行的状态下运行。
3. 每次source的更新都需要更新prepare的操作，比如增加datafile、执行EBS patch。建议在每次clone前，都执行prepare的操作
4. 如果source未及时更新prepare操作，而已经copy files到target环境。则可以在source中进行prepare操作，将prepare更新的内容覆盖target环境即可。Prepare更新的文件目录如下：

dbtier：$ORACLE\_HOME/appsutil/clone

apptier：$OAD\_TOP/clone

### Prepare操作

#### Prepare the source system database tier for cloning

1. login as source db tier OS user
2. cd $ORACLE\_HOME/appsutil/scripts/[SID]-[HOSTNAME]

如：cd /oradata/PROD/db/tech\_st/11.2.0/appsutil/scripts/PROD\_ebsdb

1. perl adpreclone.pl dbTier

-bash-4.1$ pwd

/oradata/PROD/db/tech\_st/11.2.0/appsutil/scripts/PROD\_ebsdb

-bash-4.1$ perl adpreclone.pl dbTier

Copyright (c) 2002 Oracle Corporation

Redwood Shores, California, USA

Oracle Applications Rapid Clone

Version 12.0.0

adpreclone Version 120.20.12010000.5

Enter the APPS User Password: [输入apps密码]

Running:

perl /oradata/PROD/db/tech\_st/11.2.0/appsutil/bin/adclone.pl java=/oradata/PROD/db/tech\_st/11.2.0/jdk/jre mode=stage stage=/oradata/PROD/db/tech\_st/11.2.0/appsutil/clone component=dbTier method=CUSTOM dbctx=/oradata/PROD/db/tech\_st/11.2.0/appsutil/PROD\_ebsdb.xml showProgress

APPS Password :

Beginning database tier Stage - Mon Jan 7 22:34:10 2013

/oradata/PROD/db/tech\_st/11.2.0/jdk/jre/bin/java -Xmx600M -DCONTEXT\_VALIDATED=false -Doracle.installer.oui\_loc=/oradata/PROD/db/tech\_st/11.2.0/oui -classpath /oradata/PROD/db/tech\_st/11.2.0/lib/xmlparserv2.jar:/oradata/PROD/db/tech\_st/11.2.0/jdbc/lib/ojdbc5.jar:/oradata/PROD/db/tech\_st/11.2.0/appsutil/java:/oradata/PROD/db/tech\_st/11.2.0/oui/jlib/OraInstaller.jar:/oradata/PROD/db/tech\_st/11.2.0/oui/jlib/ewt3.jar:/oradata/PROD/db/tech\_st/11.2.0/oui/jlib/share.jar:/oradata/PROD/db/tech\_st/11.2.0/oui/jlib/srvm.jar:/oradata/PROD/db/tech\_st/11.2.0/jlib/ojmisc.jar oracle.apps.ad.clone.StageDBTier -e /oradata/PROD/db/tech\_st/11.2.0/appsutil/PROD\_ebsdb.xml -stage /oradata/PROD/db/tech\_st/11.2.0/appsutil/clone -tmp /tmp -method CUSTOM -showProgress

APPS Password :

Log file located at /oradata/PROD/db/tech\_st/11.2.0/appsutil/log/PROD\_ebsdb/StageDBTier\_01072234.log

- 50% completed

Completed Stage...

Mon Jan 7 22:37:23 2013

#### Prepare the source system application tier for cloning

1. Login as source app tier OS user
2. cd $INST\_TOP/admin/scripts

如：cd /ebsappdata/PROD/inst/apps/PROD\_ebs/admin/scripts

1. perl adpreclone.pl appsTier

如：

-bash-4.1$ pwd

/ebsappdata/PROD/inst/apps/PROD\_ebs/admin/scripts

-bash-4.1$ perl adpreclone.pl appsTier

Copyright (c) 2002 Oracle Corporation

Redwood Shores, California, USA

Oracle Applications Rapid Clone

Version 12.0.0

adpreclone Version 120.20.12010000.5

Running:

perl /ebsappdata/PROD/apps/apps\_st/appl/ad/12.0.0/bin/adclone.pl java=/ebsappdata/PROD/apps/tech\_st/10.1.3/appsutil/jdk mode=stage stage=/ebsappdata/PROD/apps/apps\_st/comn/clone component=appsTier method= appctx=/ebsappdata/PROD/inst/apps/PROD\_ebs/appl/admin/PROD\_ebs.xml showProgress

APPS Password :

method defaulted to CUSTOM

Beginning application tier Stage - Mon Jan 7 22:38:09 2013

/ebsappdata/PROD/apps/tech\_st/10.1.3/appsutil/jdk/bin/java -Xmx600M -DCONTEXT\_VALIDATED=false -Doracle.installer.oui\_loc=/oui -classpath /ebsappdata/PROD/apps/tech\_st/10.1.3/lib/xmlparserv2.jar:/ebsappdata/PROD/apps/tech\_st/10.1.3/jdbc/lib/ojdbc14.jar:/ebsappdata/PROD/apps/apps\_st/comn/java/classes:/ebsappdata/PROD/apps/tech\_st/10.1.3/oui/jlib/OraInstaller.jar:/ebsappdata/PROD/apps/tech\_st/10.1.3/oui/jlib/ewt3.jar:/ebsappdata/PROD/apps/tech\_st/10.1.3/oui/jlib/share.jar:/ebsappdata/PROD/apps/tech\_st/10.1.3/oui/jlib/srvm.jar:/ebsappdata/PROD/apps/tech\_st/10.1.3/jlib/ojmisc.jar oracle.apps.ad.clone.StageAppsTier -e /ebsappdata/PROD/inst/apps/PROD\_ebs/appl/admin/PROD\_ebs.xml -stage /ebsappdata/PROD/apps/apps\_st/comn/clone -tmp /tmp -method CUSTOM -showProgress

Log file located at /ebsappdata/PROD/inst/apps/PROD\_ebs/admin/log/StageAppsTier\_01072238.log

\ 80% completed

Completed Stage...

Mon Jan 7 22:41:24 2013

## Copy EBS files

### 要点

1. 文件的一致性，尤其是datafile的一致性。如果datafile是不一致的，则在db tier的adclone操作将会出错。

说明：在数据库采用abort方式关闭、数据库异常关闭下、以及数据库处于运行状态下的数据库文件复制都将是不一致的。

#### 文件拷贝

clone到本机其它目录，可以直接使用cp，如果clone到异机，可以先打包

拷贝操作：

[root@ebsdb oradata]# ls

lost+found software PROD

[root@ebsdb oradata]# cp -Rp PROD PROD\_clone

打包操作：

[root@ebsdb oradata]#tar –cvf PROD\_clone.tar PROD

需要拷贝的目录如下：

APP层：PROD/apps

DB层：PROD/db

#### 传输文件到目的地

如果是异机clone操作，传输文件到目的地

可以采用sftp的方式传输到目的地

#### 解压文件及授予权限

解压tar包，重命名PROD为TEST08

[root@ebs02 u01]# ls

PROD\_clone.tar

[root@ebs02 u01]# tar -xvf PROD\_clone.tar

[root@ebs02 u01]# mv PROD TEST08

更改文件的属主

[root@ebs02 u01]#chown –R appl08:appl12i apps inst

[root@ebs02 u01]#chown –R ora08:dba db

## Configure the Target System

### 要点：

1. 执行adclone的顺序：

首先，在db server上执行db tier的clone操作。

其次，在app server上执行app tier的clone操作。

说明：如果是将多节点clone为单节点，那么只需要在单节点主机上分别执行db Tier 和apps Tier操作即可。

1. 每步clone完成后，会自动启动该clone内容的service。
2. 关于oraInventory目录。oraInst.loc文件，记录了oraInventory文件路径，inventory是OUI的重要组成部分。

路径为：/var/opt/oracle/oraInst.loc、数据库层的$ORACLE\_HOME/oraInst.loc、应用层的10.1.2的$ORACLE\_HOME/oraInst.loc、应用层的10.1.3的$ORACLE\_HOME/oraInst.loc

OUI查找的顺序为：先使用/var/opt/oracle/oraInst.loc

如果不存在的话，再使用$ORACLE\_HOME/oraInst.loc

1. 在进行clone操作之前：
   1. 如果是覆盖之前的环境，需要先注释掉用户.bash\_profile里设置的env文件（APPS<SID>\_<hostname>.env），防止对clone操作产生影响导致clone失败。从新连接加载新环境变量。
   2. 如果是新建的用户，不用考虑环境变量的问题。
   3. 如果是新服务器，首先应按照EBS安装文档进行安装前的系统准备、检查、配置。

#### 针对Solaris 11特别设置

1. 对于Solaris 11自带unzip版本为6.0，clone需要unzip版本为5，替换操作系统自带的unzip

root@ebs01:~# which unzip

/usr/bin/unzip

root@ebs01:~# ls -l /usr/bin/ |grep unzip

-r-xr-xr-x 1 root bin 149684 Dec 26 13:31 unzip

-r-xr-xr-x 1 root bin 177916 Oct 21 2011 unzip\_pre\_change\_to\_version\_5

-r-xr-xr-x 1 root bin 90780 Oct 21 2011 unzipsfx

lrwxrwxrwx 1 root root 5 Dec 24 08:37 zipinfo -> unzip

root@ebs01:~# unzip -version

caution: both -n and -o specified; ignoring -o

UnZip 5.41 of 16 April 2000, by Info-ZIP. Maintained by C. Spieler. Send

bug reports to the authors at Zip-Bugs@lists.wku.edu; see README for details.

1. CPU设置

Clone之前需要先禁用一些CPU的线程，待CLONE完毕以后再启用

2颗8核8线程，相当于128颗虚拟CPU

禁用CPU 0-63：# psradm -f 0-63

启用CPU 0-63：# psradm -n 0-63

### clone操作

#### Configure the target system database server

1. 确认是否存在/var/opt/oracle/oraInst.loc文件，修改inventory\_loc=内容为clone环境目录里的oraInventory。

如：inventory\_loc=/data/TEST08/oraInventory

对于oraInventory，授予777权限

chmod -R 777 /data/TEST08/oraInventory

1. Login as target db tier OS user
2. mkdir temp目录 (取决于是否建立指定temp文件目录)

如：mkdir /data/TEST08/temp，并进行授权chmod -R 777 /data/TEST08/temp

1. 修改$ORACLE\_HOME/appsutil/template目录下的adxdbctx.tmp文件，替换5.8.3为5.10.0
2. 检查$NEW\_ORACLE\_HOME/appsutil/template /adcrdb.sh是否存在，如果不存在从源环境拷贝该文件到对应目录
3. cd $ORACLE\_HOME/appsutil/clone/bin

如：cd /data/TEST08/db/tech\_st/11.2.0/appsutil/clone/bin

1. perl adcfgclone.pl dbTier

如：

[ora08@ebs02 bin]$ pwd

**/data/TEST08/db/tech\_st/11.2.0/appsutil/clone/bin**

[ora08@ebs02 bin]$ ls

adcfgclone.pl adchkutl.sh adclonectx.pl adclone.pl

[ora08@ebs02 bin]$ **perl adcfgclone.pl dbTier**

Copyright (c) 2002 Oracle Corporation

Redwood Shores, California, USA

Oracle Applications Rapid Clone

Version 12.0.0

adcfgclone Version 120.31.12010000.8

Enter the APPS password : [apps,回车]

Running:

/data/TEST08/db/tech\_st/11.2.0/appsutil/clone/bin/../jre/bin/java -Xmx600M -cp

/data/TEST08/db/tech\_st/11.2.0/appsutil/clone/jlib/java:/data/TEST08/db/tech\_st/1

1.1.0/appsutil/clone/jlib/xmlparserv2.jar:/data/TEST08/db/tech\_st/11.2.0/appsuti

l/clone/jlib/ojdbc5.jar oracle.apps.ad.context.CloneContext -e

/data/TEST08/db/tech\_st/11.2.0/appsutil/clone/bin/../context/db/CTXORIG.xml -

validate -pairsfile /tmp/adpairsfile\_25305.lst -stage

/data/TEST08/db/tech\_st/11.2.0/appsutil/clone 2> /tmp/adcfgclone\_25305.err;

echo $? > /tmp/adcfgclone\_25305.res

Log file located at

/data/TEST08/db/tech\_st/11.2.0/appsutil/clone/bin/CloneContext\_0301233429.log

Provide the values required for creation of the new Database Context file.

Target System Hostname (virtual or normal) [ebs02] : [输入主机名,回车]

Target Instance is RAC (y/n) [n] : [回车]

Target System Database SID : TEST08[TEST08,回车]

Target System Base Directory : /data/TEST08[/data/TEST08,回车]

Target System utl\_file\_dir Directory List : /data/TEST08/temp[/data/TEST08/temp,回车]

Number of DATA\_TOP's on the Target System [1] : [回车]

Target System DATA\_TOP Directory 1 [/data/PROD/db/apps\_st/data] :

/data/TEST08/db/apps\_st/data[/data/TEST08/db/apps\_st/data,回车]

Target System RDBMS ORACLE\_HOME Directory [/data/TEST08/db/tech\_st/11.2.0] : [回车]

Do you want to preserve the Display [null] (y/n) : n[n,回车]

Target System Display [ebs02:0.0] : ebs02:1.0[ebs02:1.0,回车]

Target System Port Pool [0-99] : 8[8,回车]

Checking the port pool 8

done: Port Pool 8 is free

Report file located at /data/TEST08/db/tech\_st/11.2.0/appsutil/temp/portpool.lst

Complete port information available at

/data/TEST08/db/tech\_st/11.2.0/appsutil/temp/portpool.lst

Creating the new Database Context file from :

/data/TEST08/db/tech\_st/11.2.0/appsutil/template/adxdbctx.tmp

The new database context file has been created :

/data/TEST08/db/tech\_st/11.2.0/appsutil/TEST08\_ebs02.xml

Log file located at

/data/TEST08/db/tech\_st/11.2.0/appsutil/clone/bin/CloneContext\_0301233429.log

Check Clone Context logfile

/data/TEST08/db/tech\_st/11.2.0/appsutil/clone/bin/CloneContext\_0301233429.log

for details.

#### Configure the target system application tier server

1. Login as target app tier OS user
2. cd $OAD\_TOP/clone/bin

如：cd /data/TEST08/apps/apps\_st/comn/clone/bin

1. perl adcfgclone.pl appsTier

如：

[appl08@ebs02 bin]$ pwd

/data/TEST08/apps/apps\_st/comn/clone/bin

[appl08@ebs02 bin]$ perl adcfgclone.pl appsTier

Copyright (c) 2002 Oracle Corporation

Redwood Shores, California, USA

Oracle Applications Rapid Clone

Version 12.0.0

adcfgclone Version 120.31.12010000.8

Enter the APPS password :

Running:

/data/TEST08/apps/apps\_st/comn/clone/bin/../jre/bin/java -Xmx600M -cp /data/TEST08/apps/apps\_st/comn/clone/jlib/java:/data/TEST08/apps/apps\_st/comn/clone/jlib/xmlparserv2.jar:/data/TEST08/apps/apps\_st/comn/clone/jlib/ojdbc14.jar oracle.apps.ad.context.CloneContext -e /data/TEST08/apps/apps\_st/comn/clone/bin/../context/apps/CTXORIG.xml -validate -pairsfile /tmp/adpairsfile\_18679.lst -stage /data/TEST08/apps/apps\_st/comn/clone 2> /tmp/adcfgclone\_18679.err; echo $? > /tmp/adcfgclone\_18679.res

Log file located at /data/TEST08/apps/apps\_st/comn/clone/bin/CloneContext\_0913231738.log

Provide the values required for creation of the new APPL\_TOP Context file.

Target System Hostname (virtual or normal) [ebs02] : [回车]

Target System Database SID : TEST08[TEST08,回车]

Target System Database Server Node [ebs02] : [回车]

Target System Database Domain Name [sohu.inc.com] : [回车]

Target System Base Directory : /data/TEST08[/data/TEST08,回车]

Target System Tools ORACLE\_HOME Directory [/data/TEST08/apps/tech\_st/10.1.2] : [回车]

Target System Web ORACLE\_HOME Directory [/data/TEST08/apps/tech\_st/10.1.3] : [回车]

Target System APPL\_TOP Directory [/data/TEST08/apps/apps\_st/appl] : [回车]

Target System COMMON\_TOP Directory [/data/TEST08/apps/apps\_st/comn] : [回车]

Target System Instance Home Directory [/data/TEST08/inst] : [回车]

Target System Root Service [enabled] : [回车]

Target System Web Entry Point Services [enabled] : [回车]

Target System Web Application Services [enabled] : [回车]

Target System Batch Processing Services [enabled] : [回车]

Target System Other Services [disabled] : [回车]

Do you want to preserve the Display [ebsapp:1.0] (y/n) ? : n[n,回车]

Target System Display [ebs02:1.0] : [回车]

Do you want the the target system to have the same port values as the source system (y/n) [y] ? : n[n,回车]

Target System Port Pool [0-99] : 8[8,回车]

Checking the port pool 8

done: Port Pool 8 is free

Report file located at /data/TEST08/inst/apps/TEST08\_ebs02/admin/out/portpool.lst

Complete port information available at /data/TEST08/inst/apps/TEST08\_ebs02/admin/out/portpool.lst

UTL\_FILE\_DIR on database tier consists of the following directories.

1. /usr/tmp

2. /data/TEST08/temp

3. /data/TEST08/db/tech\_st/11.2.0/appsutil/outbound/TEST08\_ebs02

4. /usr/tmp

Choose a value which will be set as APPLPTMP value on the target node [1] : [2,回车]

Creating the new APPL\_TOP Context file from :

/data/TEST08/apps/apps\_st/appl/ad/12.0.0/admin/template/adxmlctx.tmp

The new APPL\_TOP context file has been created :

/oradata/TEST08/inst/apps/TEST08\_ebs02/appl/admin/TEST08\_ebs02.xml……...

### Clone后的调整

#### 调整参数

* 数据库层

调整初始话参数

|  |  |
| --- | --- |
| 参数 | 值 |
| processes | 1000 |
| sessions | 2000 |
| open\_cursors | 1200 |
| session\_cached\_cursors | 1000 |
| sga\_target | 4G |
| shared\_pool\_size | 800M |
| shared\_pool\_reserved\_size | 80M |
| pga\_aggregate\_target | 2G |
| utl\_file\_dir | /oradata/TEST08/temp |
| job\_queue\_processes | 32 |

* 应用层

修改下面profile：[SYSADMIN/配置文件/系统]

地点名称 ；8008测试环境(TEST)

Java 色彩设计：灰色