

【RAC 安装故障处理】multiple user has uid 0

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1.2 前言部分

1.2.1 导读和注意事项

各位技术爱好者，看完本文后，你可以掌握如下的技能，也可以学到一些其它你所不知道的知识，~O(∩_∩)O~：

① RAC 安装类似如下错误的解决方案：

```
USERS WITH SAME UID
multiple user has uid 0
PROC-5: User does not have permission to perform a cluster registry operation on this key
add scan=ZFPRMDB-scan ... failed
FirstNode configuration failed at /oracle/app/11.2.0/grid/crs/install/crsconfig_lib.pm line 9196.
```

Tips：

① 若文章代码格式有错乱，推荐使用搜狗、QQ 或 360 浏览器，也可以下载 pdf 格式的文档来查看，pdf 文档下载地址：<http://yunpan.cn/cdEQedhCs2kFz>（提取码：ed9b）

② 本篇 BLOG 中命令的输出部分需要特别关注的地方我都用灰色背景和粉红色字体来表示，比如下边的例子中，thread 1 的最大归档日志号为 33，thread 2 的最大归档日志号为 43 是需要特别关注的地方；而命令一般使用黄色背景和红色字体标注；对代码或代码输出部分的注释一般采用蓝色字体表示。

```
List of Archived Logs in backup set 11
Thrd Seq      Low SCN      Low Time      Next SCN      Next Time
-----
1      32          1621589      2015-05-29 11:09:52 1625242      2015-05-29 11:15:48
1      33          1625242      2015-05-29 11:15:48 1625293      2015-05-29 11:15:58
2      42          1613951      2015-05-29 10:41:18 1625245      2015-05-29 11:15:49
2      43          1625245      2015-05-29 11:15:49 1625253      2015-05-29 11:15:53

[ZFXXDB1:root]:/>ls -l
-rw-r--r-- 1 root root 4096 May 29 11:15 T_XDESK_APP1_vg
rootvg
[ZFXXDB1:root]:/>
00:27:22 SQL> alter tablespace idxtbs read write;

=====》 2097152*512/1024/1024/1024=1G
```

本文如有错误或不完善的地方请大家多多指正，ITPUB 留言或 QQ 皆可，您的批评指正是我写作的最大动力。

1.2.2 相关参考文章链接

1.3 相关知识点扫盲

Rac 安装中，最重要的一步是安装 grid 的时候执行 root.sh 脚本，这个可以成功，基本 rac 可以安装成功，安装 rac 之前可以使用 runcluvfy.sh 脚本来检查安装环境

```
--- GRID 校验，这里的 ORACLE_HOME 指的是 GRID_HOME

./runcluvfy.sh stage -pre crsinst -n all -verbose
$ORACLE_HOME/bin/cluvfy stage -pre crsinst -n all -verbose
```

-----重新执行 root.sh 脚本的 2 种方式，这里的 ORACLE_HOME 指的是 GRID_HOME

-----① 脚本方式

--执行失败，重新执行 root.sh 脚本
--\$ORACLE_HOME/crs/install/rootcrs.pl -deconfig -force -verbose
--dd if=/dev/zero of=/dev/rhdiskN bs=1024k count=1024
--lquerypv -h /dev/rhdisk5
--\$ORACLE_HOME/root.sh

-----② 界面方式

-----删除两节点 crsconfig_params 中的 DATA1 和磁盘

\$ORACLE_HOME/crs/install/crsconfig_params
ASM_DISK_GROUP=DATA1
ASM_DISKS=/dev/rhdisk5

--root 执行

\$ORACLE_HOME/crs/install/rootcrs.pl -deconfig -force -verbose

-- GRID 执行

export DISPLAY=22.188.216.132:0.0
\$ORACLE_HOME/crs/config/config.sh

1.4 故障分析及解决过程

1.4.1 故障环境介绍

项目	source db
----	-----------

db 类型	RAC
db version	11.2.0.3
db 存储	ASM
OS 版本及 kernel 版本	AIX 64 位 6.1.0.0

1. 4. 2 故障发生现象及报错信息

USERS WITH SAME UID
multiple user has uid 0
PROC-5: User does not have permission to perform a cluster registry operation on this key

静默安装报错信息：

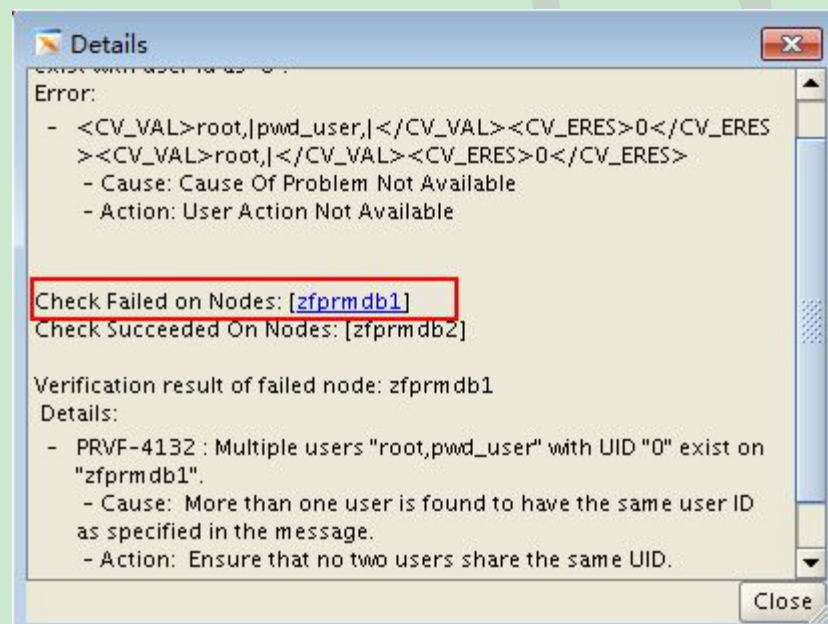
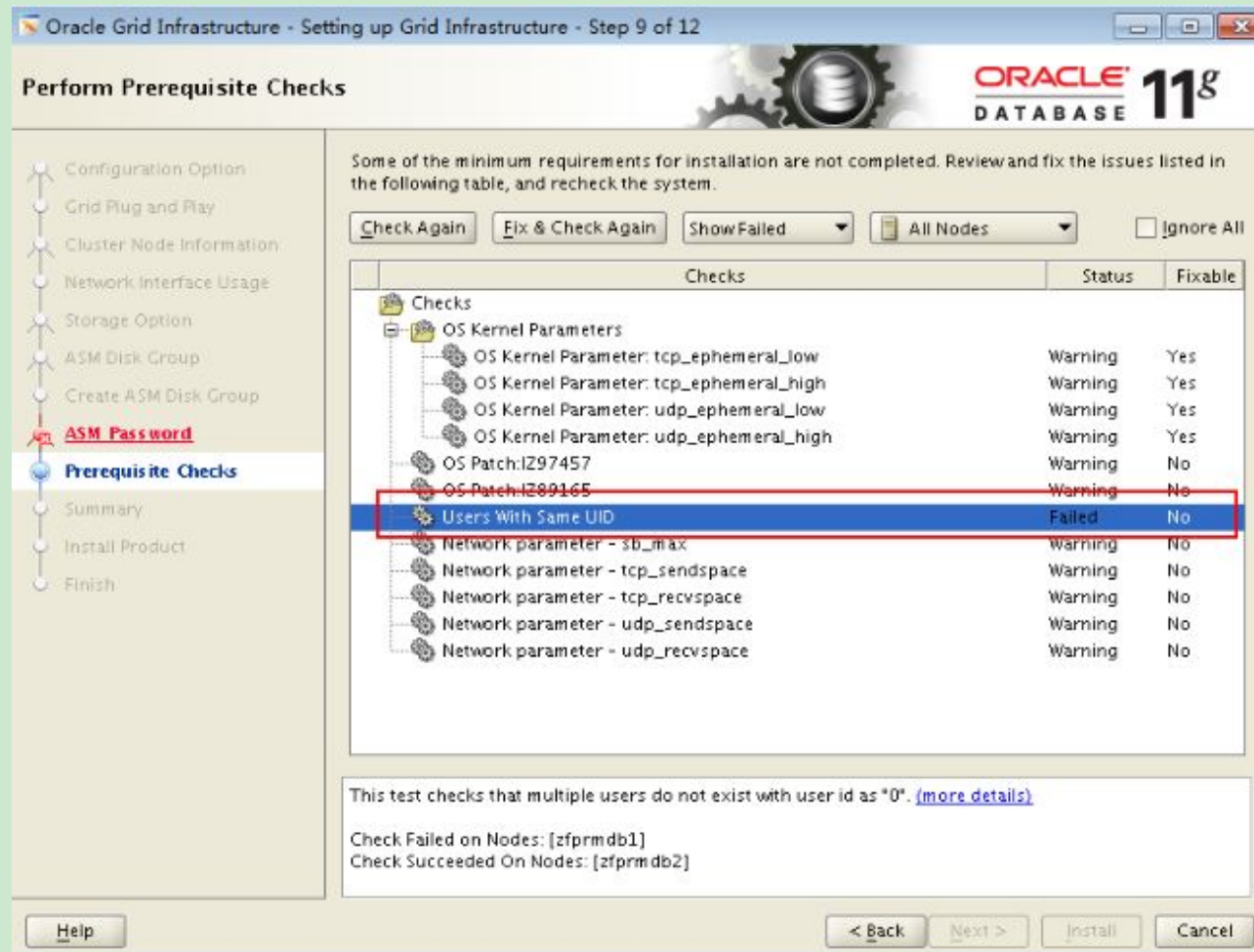
PRCR-1006 : Failed to add resource ora.scan1.vip for scan1
PRCR-1071 : Failed to register or update resource ora.scan1.vip
[PROC-5: User does not have permission to perform a cluster registry operation on this key.](#)
add scan=ZFPRMDB-scan ... failed
FirstNode configuration failed at /oracle/app/11.2.0/grid/crs/install/crsconfig_lib.pm line 9196.

PRCR-1006 : Failed to add resource ora.net1.network for net1
PRCR-1071 : Failed to register or update resource ora.net1.network
[PROC-5: User does not have permission to perform a cluster registry operation on this key.](#)
add nodeapps -n zfprmdb1 -A ZFPRMDB1-vip/255.255.255.0/en0 on node=zfprmdb1 ... failed
Failed to add Nodeapps at /oracle/app/11.2.0/grid/crs/install/crsconfig_lib.pm line 9190.
/oracle/app/11.2.0/grid/perl/bin/perl -I/oracle/app/11.2.0/grid/perl/lib -I/oracle/app/11.2.0/grid/crs/install /oracle/app/11.2.0/grid/crs/install/rootcrs.pl execution failed

[main] [2016-02-29 09:16:16.124 GMT+08:00] [ScanImpl.initialize:111] NEE message = PRCS-1025 : Could not find Single Client Access Name Virtual Internet Protocol(VIP) resources
TYPE=ora.scan_vip.type
Exception in thread "main" java.lang.IndexOutOfBoundsException: Index: 0, Size: 0
at java.util.ArrayList.RangeCheck(ArrayList.java:572)
at java.util.ArrayList.get(ArrayList.java:347)
at oracle.cluster.impl.scan.ScanImpl.getScanName(ScanImpl.java:235)
at oracle.sysman.assistants.util.hasi.HAUtils.getScanName(HAUtils.java:2416)
at oracle.sysman.assistants.util.hasi.HAUtils.getScanEZConnectString(HAUtils.java:2928)
at oracle.sysman.assistants.util.attributes.InitParamAttributes.configureRemoteListener(InitParamAttributes.java:2941)
at oracle.sysman.assistants.dbca.backend.Host.createOPSConfiguration(Host.java:1226)
at oracle.sysman.assistants.dbca.backend.SilentHost.performOperation(SilentHost.java:234)

at oracle.sysman.assistants.dbca.backend.Host.startOperation(Host.java:3613)
 at oracle.sysman.assistants.dbca.Dbca.execute(Dbca.java:119)
 at oracle.sysman.assistants.dbca.Dbca.main(Dbca.java:180)

使用图形界面安装报错：



1.4.3 故障分析及解决过程

先查询了一下 metalink 上的文章，找到了一篇 Errors PRCR-1006 PRCR-1071 PROC-5 reported during GI installation as multiple user has uid 0 (文档 ID 2012626.1)，应该就是我的问题了，按照文章的介绍，删除了多余的用户，重新执行 root.sh 就可以了。

原因：有和 root 用户一样的 uid 用户，删除该用户，解决过程如下：

```
[ZFXXX2:root]:/>more /etc/passwd
root:!:0:0:672/F/*BOCSUP//BOC System Super ID:/:usr/bin/ksh
daemon:!:1:1:672/S/*BOCAIX//BOC AIX Linux system build in ID:/etc:
bin:!:2:2:672/S/*BOCAIX//BOC AIX Linux system build in ID:/bin:
sys:!:3:3:672/S/*BOCAIX//BOC AIX Linux system build in ID:/usr/sys:
adm:!:4:4:672/S/*BOCAIX//BOC AIX Linux system build in ID:/var/adm:
uucp:!:5:5:672/S/*BOCAIX//BOC AIX Linux system build in ID:/usr/lib/uucp:
guest:!:100:100:672/S/*BOCAIX//BOC AIX Linux system build in ID:/home/guest:
nobody:!:4294967294:4294967294:672/S/*BOCAIX//BOC AIX Linux system build in ID:/:
lpd:!:9:4294967294:672/S/*BOCAIX//BOC AIX Linux system build in ID:/:
lp:*:11:11:672/S/*BOCAIX//BOC AIX Linux system build in ID:/var/spool/lp/bin/false
invscout:*:6:12:672/S/*BOCAIX//BOC AIX Linux system build in ID:/var/adm/invscout:/usr/bin/ksh
snapp:*:200:13:672/S/*BOCAIX//BOC AIX Linux system build in ID:/usr/sbin/snapp:/usr/sbin/snappd
ipsec:*:201:1:672/S/*BOCAIX//BOC AIX Linux system build in ID:/etc/ipsec:/usr/bin/ksh
nuucp:*:7:5:672/S/*BOCAIX//BOC AIX Linux system build in ID:/var/spool/uucppublic:/usr/sbin/uucp/uucico
pconsole:*:8:0:672/S/*BOCAIX//BOC AIX Linux system build in ID:/var/adm/pconsole:/usr/bin/ksh
esaadmin:*:10:0:672/S/*BOCAIX//BOC AIX Linux system build in ID:/var/esa:/usr/bin/ksh
sshd:*:202:201:672/S/*BOCAIX//BOC AIX Linux system build in ID:/var/empty:/usr/bin/ksh
prmwass:!:203:202:672/C//BOC/ - app user ID:/home/prmwass:/usr/bin/ksh
mon:*:301:1::/home/mon:/usr/bin/ksh
pwd user:!:0:0::/home/pwd user:/usr/bin/ksh
sysoper:!:1365:1::/home/sysoper:/usr/bin/ksh
grid:!:1025:1024::/home/grid:/usr/bin/ksh
oracle:!:1024:1024::/oracle:/usr/bin/ksh

[ZFXXX2:root]:/>lsuser ALL|grep id=0
root id=0 pgrp=system groups=system,bin,sys,security,cron,audit,lp,tivlogs home=/ shell=/usr/bin/ksh gecos=672/F/*BOCSUP//BOC System Super ID auditclasses=general login=true su=false rlogin=false daemon=true
admin=true sugroups=sysadm admgroups=asmoper,asmdba,asmadmin,dba,was tpath=nosak ttys=ALL expires=0 auth1=SYSTEM auth2=NONE umask=27 registry=files SYSTEM=compat logintimes= loginretries=8 pldwarntime=0
account_locked=false minage=0 maxage=4 maxexpired=-1 minalpha=1 minloweralpha=0 minupperalpha=0 minother=1 mindigit=0 minspecialchar=0 mindiff=6 maxrepeats=2 minlen=8 histexpire=40 histsize=8 pldchecks= dictionlist=
default_roles= fsize=-1 cpu=-1 data=-1 stack=-1 core=-1 rss=-1 nofiles=-1 fsize_hard=-1 cpu_hard=-1 data_hard=-1 stack_hard=-1 core_hard=-1 rss_hard=-1 nofiles_hard=-1 time_last_login=1456711975
time_last_unsuccessful_login=1456469618 tty_last_login=/dev/pts/0 tty_last_unsuccessful_login=/dev/vty0 host_last_login=22.188.216.132 host_last_unsuccessful_login=ZFXXX2 unsuccessful_login_count=0 roles=
pwd user id=0 pgrp=system groups=system,staff home=/home/pwd user shell=/usr/bin/ksh auditclasses=Priv,KeyFile login=true su=true rlogin=true daemon=true admin=false sugroups=ALL admgroups= tpath=nosak ttys=ALL
expires=0 auth1=SYSTEM auth2=NONE umask=27 registry=files SYSTEM=compat logintimes= loginretries=8 pldwarntime=0 account_locked=false minage=0 maxage=4 maxexpired=-1 minalpha=1 minloweralpha=0 minupperalpha=0
minother=1 mindigit=0 minspecialchar=0 mindiff=6 maxrepeats=2 minlen=8 histexpire=40 histsize=8 pldchecks= dictionlist= default_roles= fsize=-1 cpu=-1 data=-1 stack=-1 core=-1 rss=-1 nofiles=-1
time_last_login=1434012632 tty_last_login=/dev/pts/0 host_last_login=21.122.132.175 unsuccessful_login_count=0 roles=

[ZFXXX2:root]:/>rmuser pwd_user
[ZFXXX2:root]:/>lsuser ALL|grep id=0
root id=0 pgrp=system groups=system,bin,sys,security,cron,audit,lp,tivlogs home=/ shell=/usr/bin/ksh gecos=672/F/*BOCSUP//BOC System Super ID auditclasses=general login=true su=false rlogin=false daemon=true
admin=true sugroups=sysadm admgroups=asmoper,asmdba,asmadmin,dba,was tpath=nosak ttys=ALL expires=0 auth1=SYSTEM auth2=NONE umask=27 registry=files SYSTEM=compat logintimes= loginretries=8 pldwarntime=0
account_locked=false minage=0 maxage=4 maxexpired=-1 minalpha=1 minloweralpha=0 minupperalpha=0 minother=1 mindigit=0 minspecialchar=0 mindiff=6 maxrepeats=2 minlen=8 histexpire=40 histsize=8 pldchecks= dictionlist=
default_roles= fsize=-1 cpu=-1 data=-1 stack=-1 core=-1 rss=-1 nofiles=-1 fsize_hard=-1 cpu_hard=-1 data_hard=-1 stack_hard=-1 core_hard=-1 rss_hard=-1 nofiles_hard=-1 time_last_login=1456711975
time_last_unsuccessful_login=1456469618 tty_last_login=/dev/pts/0 tty_last_unsuccessful_login=/dev/vty0 host_last_login=22.188.216.132 host_last_unsuccessful_login=ZFXXX2 unsuccessful_login_count=0 roles=
```

咨询过系统方面的同事，这个用户没有用，就直接删除了，后边就是重新执行 root.sh 脚本了：

```
--执行失败，重新执行 root.sh 脚本，这里的 ORACLE_HOME 指的是 GRID_HOME

---$ORACLE_HOME/crs/install/rootcrs.pl -deconfig -force -verbose
--dd if=/dev/zero of=/dev/rhdiskN bs=1024k count=1024
--lquerypv -h /dev/rhdisk5
--$ORACLE_HOME/root.sh
```

1.4.3.1 Metalink 上的文章

Errors PRCR-1006 PRCR-1071 PROC-5 reported during GI installation as multiple user has uid 0 (文档 ID 2012626.1)

In this Document

APPLIES TO:

Oracle Database – Enterprise Edition – Version 11.2.0.1.0 and later
Generic Linux
Generic UNIX

SYMPTOMS

When attempting to run root.sh after GI installation, the following error occurs.

```
-----
CRS-4256: Updating the profile
CRS-4266: Voting file(s) successfully replaced
## STATE File Universal Id File Name Disk group
--  -----  -
1. ONLINE 78eb8dc1dbc64f95bf67d18elec11b0b (/dev/dev1) [OCR]
2. ONLINE 41936b8b5c9b4f0dbf086589f51537f8 (/dev/dev2) [OCR]
3. ONLINE 478aa42090794f8cbf5fe01c3601b84d (/oracle/app/votedisk/dev3) [OCR]
Located 3 voting disk(s).
PRCR-1006 : failed to add resource: ora.net1.network
PRCR-1071 : failed to register or update resource : ora.net1.network
PROC-5: User does not have permission to perform a cluster registry operation on this key.
add nodeapps -n hqspsl-cgam-r01 -A hqspsl-cgam-r01-vip/255.255.255.128/bond0 on node=hqspsl-cgam-r01 ... failed
```

CAUSE

Some user is sharing uid as with root user .

Verified it in `/etc/passwd`

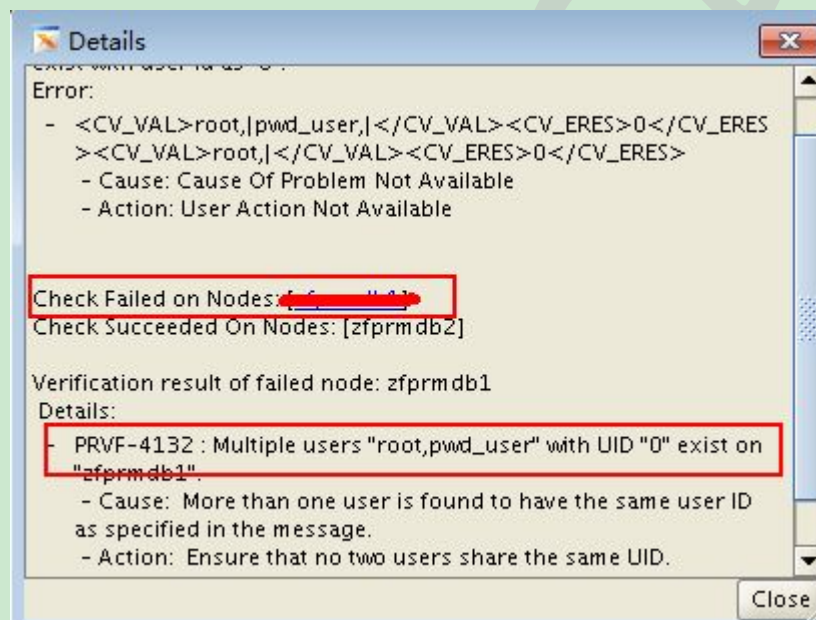
```
.....
root:x:0:0:root:/root:/bin/bash
.....
SuperUser :x:0:100::/home/SuperMan:/bin/bash <<<=====The SuperUser is sharing the same uid 0
```

SOLUTION

Do not have uid 0 for user other than root

1.5 故障处理总结

- ① 由于安装过程是客户直接写的 shell 脚本的方式，不容易看出错误，也没有找见脚本 `runcluvfy.sh`，所以安装失败的时候比较纠结，毕竟静默安装给出的错误有的时候不是很明显，安装 GRID 之前，尽量使用脚本 `./runcluvfy.sh stage -pre crsinst -n all -verbose` 来预检查安装环境。
- ② 其实该错误使用图形界面的时候已经给出的很明显了，root 和 pwd_user 用户有相同的 uid，都为 0。



About Me

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本文作者：小麦苗，只专注于数据库的技术，更注重技术的运用

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