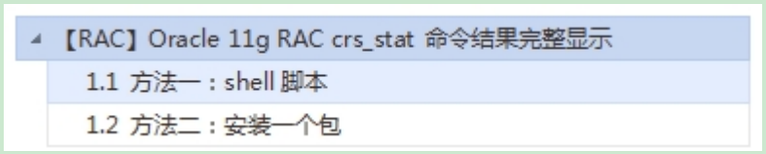
【RAC】Oracle 11g RAC crs_stat 命令结果完整显示

BLOG 文档结构图



最近在研究 rac，发现在 Oracle 11g RAC 中 crs_stat 命令较之前的版本多出了很多新的不同的资源类型，缺省情况下，使用 crs_stat -t 来查看资源是密密麻麻一大片，而且很多的 name 列显示不全，于是上网搜了一下这个问题的解决办法，大概有 2 个解决办法，现总结如下：

```
[root@node1 ~]# crs_stat -t
Name           Type           Target    State     Host
------------------------------------------------------------
ora.ARCH.dg    ora....up.type ONLINE    ONLINE    node1
ora.DATA.dg    ora....up.type ONLINE    ONLINE    node1
ora....ER.lsnr ora....er.type ONLINE    ONLINE    node1
ora....N1.lsnr ora....er.type ONLINE    ONLINE    node1
ora.OVDISK.dg  ora....up.type ONLINE    ONLINE    node1
ora.TEST.dg    ora....up.type ONLINE    ONLINE    node1
ora.asm        ora.asm.type   ONLINE    ONLINE    node1
ora.db.db      ora....se.type OFFLINE   OFFLINE
ora.eons       ora.eons.type  ONLINE    ONLINE    node1
ora.gsd        ora.gsd.type   OFFLINE   OFFLINE
ora.jmrac.db   ora....se.type ONLINE    ONLINE    node1
ora....aha.svc ora....ce.type ONLINE    ONLINE    node1
ora....network ora....rk.type ONLINE    ONLINE    node1
ora....SM1.asm application    ONLINE    ONLINE    node1
ora....E1.lsnr application    ONLINE    ONLINE    node1
ora.node1.gsd  application    OFFLINE   OFFLINE
ora.node1.ons  application    ONLINE    ONLINE    node1
ora.node1.vip  ora....t1.type ONLINE    ONLINE    node1
ora....SM2.asm application    ONLINE    ONLINE    node2
ora....E2.lsnr application    ONLINE    ONLINE    node2
ora.node2.gsd  application    OFFLINE   OFFLINE
ora.node2.ons  application    ONLINE    ONLINE    node2
ora.node2.vip  ora....t1.type ONLINE    ONLINE    node2
ora.oc4j       ora.oc4j.type  OFFLINE   OFFLINE
ora.ons        ora.ons.type   ONLINE    ONLINE    node1
ora....ry.acfs ora....fs.type ONLINE    ONLINE    node1
ora.scan1.vip  ora....ip.type ONLINE    ONLINE    node1
[root@node1 ~]#
```

1.1 方法一：shell 脚本

将如下脚本用 vi 编辑器编辑一个 shell 脚本，然后赋可执行权限后就可以使用了

无 Type 列

```
awk   'BEGIN  {printf  "%-30s  %-10s  %-10s  %-10s  \n","Name                                          ","Target      ","State       ","Host    ";  printf
"%-30s %-10s %-10s %-10s\n","------------------------------","----------", "---------","-------";}'

crs_stat | awk 'BEGIN { FS="=| ";state = 0;}  $1~/NAME/ {appname = $2; state=1};  state == 0 {next;}  $1~/TARGET/ && state == 1 {apptarget = $2; state=2;}
$1~/STATE/ && state == 2 {appstate = $2; apphost = $4; state=3;} state == 3 {printf "%-30s %-10s %-10s %-10s\n", appname,apptarget,appstate,apphost; state=0;}'
```

有 type 列

```
awk  'BEGIN {printf "%-26s %-26s %-10s %-10s %-10s \n","Name                          ","Type                      ","Target    ","State     ","Host    "; printf
"%-30s %-26s %-10s %-10s %-10s\n","------------------------------","--------------------------","----------", "---------","-------";}'

crs_stat | awk 'BEGIN { FS="=| ";state = 0;}  $1~/NAME/ {appname = $2; state=1};  state == 0 {next;}  $1~/TYPE/ && state == 1 {apptype = $2; state=2;}
$1~/TARGET/  &&  state  ==  2  {apptarget  =  $2;  state=3;}  $1~/STATE/  &&  state  ==  3  {appstate  =  $2;  apphost  =  $4;  state=4;}  state  ==  4  {printf
"%-30s %-26s %-10s %-10s %-10s\n", appname,apptype,apptarget,appstate,apphost; state=0;}'
```

```
[root@node1 ~]# more crs_stat.sh
awk \
  'BEGIN {printf "%-30s %-10s %-10s %-10s\n","Name                          ","Target    ","State     ","Host    ";
          printf "%-30s %-10s %-10s %-10s\n","------------------------------","----------", "---------","-------";}'

crs_stat | awk \
'BEGIN { FS="=| ";state = 0;}
  $1~/NAME/ {appname = $2; state=1};
  state == 0 {next;}
  $1~/TARGET/ && state == 1 {apptarget = $2; state=2;}
  $1~/STATE/ && state == 2 {appstate = $2; apphost = $4; state=3;}
  state == 3 {printf "%-30s %-10s %-10s %-10s\n", appname,apptarget,appstate,apphost; state=0;}'
[root@node1 ~]# ./crs_stat.sh
Name                           Target     State      Host
------------------------------ ---------- ---------  -------
ora.ARCH.dg                    ONLINE     ONLINE     node1
ora.DATA.dg                    ONLINE     ONLINE     node1
ora.LISTENER.lsnr              ONLINE     ONLINE     node1
ora.LISTENER_SCAN1.lsnr        ONLINE     ONLINE     node1
ora.OVDISK.dg                  ONLINE     ONLINE     node1
ora.TEST.dg                    ONLINE     ONLINE     node1
ora.asm                        ONLINE     ONLINE     node1
ora.db.db                      OFFLINE    OFFLINE
ora.eons                       ONLINE     ONLINE     node1
ora.gsd                        OFFLINE    OFFLINE
ora.jmrac.db                   ONLINE     ONLINE     node1
ora.jmrac.haha.svc             ONLINE     ONLINE     node1
ora.net1.network               ONLINE     ONLINE     node1
ora.node1.ASM1.asm             ONLINE     ONLINE     node1
ora.node1.LISTENER_NODE1.lsnr  ONLINE     ONLINE     node1
ora.node1.gsd                  OFFLINE    OFFLINE
ora.node1.ons                  ONLINE     ONLINE     node1
ora.node1.vip                  ONLINE     ONLINE     node1
ora.node2.ASM2.asm             ONLINE     ONLINE     node2
```

```
ora.node2.LISTENER_NODE2.lsnr  ONLINE     ONLINE     node2
ora.node2.gsd                  OFFLINE    OFFLINE
ora.node2.ons                  ONLINE     ONLINE     node2
ora.node2.vip                  ONLINE     ONLINE     node2
ora.oc4j                       OFFLINE    OFFLINE
ora.ons                        ONLINE     ONLINE     node1
ora.registry.acfs              ONLINE     ONLINE     node1
ora.scan1.vip                  ONLINE     ONLINE     node1
[root@node1 ~]#

[root@node1 ~]# more crs_stat1.sh
awk  'BEGIN {printf "%-30s %-26s %-10s %-10s %-10s \n","Name                          ","Type                          ","Target    ","State     ","Host    ";
printf "%-30s %-26s %-10s %-10s %-10s\n","------------------------------","--------------------------","----------","----------","-------";}'

crs_stat | awk 'BEGIN { FS="=| ";state = 0;}  $1~/NAME/ {appname = $2; state=1};  state == 0 {next;}  $1~/TYPE/ && state == 1 {apptype = $2; state=2;} $1~/TARGET/
&& state == 2 {apptarget = $2; state=3;} $1~/ST
ATE/ && state == 3 {appstate = $2; apphost = $4; state=4;} state == 4 {printf "%-30s %-26s %-10s %-10s %-10s\n", appname,apptype,apptarget,appstate,apphost;
state=0;}'
[root@node1 ~]# ./crs_stat1.sh
Name                           Type                       Target     State      Host
------------------------------ -------------------------- ---------- ---------- -------
ora.ARCH.dg                    ora.diskgroup.type         ONLINE     ONLINE     node1
ora.DATA.dg                    ora.diskgroup.type         ONLINE     ONLINE     node1
ora.LISTENER.lsnr              ora.listener.type          ONLINE     ONLINE     node1
ora.LISTENER_SCAN1.lsnr        ora.scan_listener.type     ONLINE     ONLINE     node1
ora.OVDISK.dg                  ora.diskgroup.type         ONLINE     ONLINE     node1
ora.TEST.dg                    ora.diskgroup.type         ONLINE     ONLINE     node1
ora.asm                        ora.asm.type               ONLINE     ONLINE     node1
ora.db.db                      ora.database.type          OFFLINE    OFFLINE
ora.eons                       ora.eons.type              ONLINE     ONLINE     node1
ora.gsd                        ora.gsd.type               OFFLINE    OFFLINE
ora.jmrac.db                   ora.database.type          ONLINE     ONLINE     node1
ora.jmrac.haha.svc             ora.service.type           ONLINE     ONLINE     node1
ora.net1.network               ora.network.type           ONLINE     ONLINE     node1
ora.node1.ASM1.asm             application                ONLINE     ONLINE     node1
ora.node1.LISTENER_NODE1.lsnr  application                ONLINE     ONLINE     node1
ora.node1.gsd                  application                OFFLINE    OFFLINE
ora.node1.ons                  application                ONLINE     ONLINE     node1
ora.node1.vip                  ora.cluster_vip_net1.type  ONLINE     ONLINE     node1
ora.node2.ASM2.asm             application                ONLINE     ONLINE     node2
ora.node2.LISTENER_NODE2.lsnr  application                ONLINE     ONLINE     node2
ora.node2.gsd                  application                OFFLINE    OFFLINE
ora.node2.ons                  application                ONLINE     ONLINE     node2
ora.node2.vip                  ora.cluster_vip_net1.type  ONLINE     ONLINE     node2
ora.oc4j                       ora.oc4j.type              OFFLINE    OFFLINE
ora.ons                        ora.ons.type               ONLINE     ONLINE     node1
ora.registry.acfs              ora.registry.acfs.type     ONLINE     ONLINE     node1
ora.scan1.vip                  ora.scan_vip.type          ONLINE     ONLINE     node1
[root@node1 ~]#
```

或者直接在/usr/local/bin/目录下编辑也可以直接运行：

```
[root@node1 ~]# more /usr/local/bin/crsstat1
awk  'BEGIN {printf "%-30s %-26s %-10s %-10s %-10s \n","Name                          ","Type                          ","Target    ","State     ","Host    ";
printf "%-30s %-26s %-10s %-10s %-10s\n","------------------------------","--------------------------","----------","----------","-------";}'

crs_stat | awk 'BEGIN { FS="=| ";state = 0;}  $1~/NAME/ {appname = $2; state=1};  state == 0 {next;}  $1~/TYPE/ && state == 1 {apptype = $2; state=2;} $1~/TARGET/
&& state == 2 {apptarget = $2; state=3;} $1~/ST
ATE/ && state == 3 {appstate = $2; apphost = $4; state=4;} state == 4 {printf "%-30s %-26s %-10s %-10s %-10s\n", appname,apptype,apptarget,appstate,apphost;
state=0;}'
[root@node1 ~]# crsstat1
Name                           Type                       Target     State      Host
```

```
------------------------------ ---------------------------- ---------- ---------- --------
ora.ARCH.dg                    ora.diskgroup.type           ONLINE     ONLINE     node1
ora.DATA.dg                    ora.diskgroup.type           ONLINE     ONLINE     node1
ora.LISTENER.lsnr              ora.listener.type            ONLINE     ONLINE     node1
ora.LISTENER_SCAN1.lsnr        ora.scan_listener.type       ONLINE     ONLINE     node1
ora.OVDISK.dg                  ora.diskgroup.type           ONLINE     ONLINE     node1
ora.TEST.dg                    ora.diskgroup.type           ONLINE     ONLINE     node1
ora.asm                        ora.asm.type                 ONLINE     ONLINE     node1
ora.db.db                      ora.database.type            OFFLINE    OFFLINE
ora.eons                       ora.eons.type                ONLINE     ONLINE     node1
ora.gsd                        ora.gsd.type                 OFFLINE    OFFLINE
ora.jmrac.db                   ora.database.type            ONLINE     ONLINE     node1
ora.jmrac.haha.svc             ora.service.type             ONLINE     ONLINE     node1
ora.net1.network               ora.network.type             ONLINE     ONLINE     node1
ora.node1.ASM1.asm             application                  ONLINE     ONLINE     node1
ora.node1.LISTENER_NODE1.lsnr  application                  ONLINE     ONLINE     node1
ora.node1.gsd                  application                  OFFLINE    OFFLINE
ora.node1.ons                  application                  ONLINE     ONLINE     node1
ora.node1.vip                  ora.cluster_vip_net1.type    ONLINE     ONLINE     node1
ora.node2.ASM2.asm             application                  ONLINE     ONLINE     node2
ora.node2.LISTENER_NODE2.lsnr  application                  ONLINE     ONLINE     node2
ora.node2.gsd                  application                  OFFLINE    OFFLINE
ora.node2.ons                  application                  ONLINE     ONLINE     node2
ora.node2.vip                  ora.cluster_vip_net1.type    ONLINE     ONLINE     node2
ora.oc4j                       ora.oc4j.type                OFFLINE    OFFLINE
ora.ons                        ora.ons.type                 ONLINE     ONLINE     node1
ora.registry.acfs              ora.registry.acfs.type       ONLINE     ONLINE     node1
ora.scan1.vip                  ora.scan_vip.type            ONLINE     ONLINE     node1
```

1.2 方法二：安装一个包

具体参考大师乐沙弥的世界的 blog： **http://blog.csdn.net/leshami/article/details/9411177**

1、安装 crsstat

通常情况下，建议使用 root 用户或者 oracle 用户来安装到 /usr/local/bin 目录

当脚本首次运行时，会在安装目录产生一个 crsstat.env 文件，该文件用于描述 crs 的位置信息

安装 crsstat 前，应启动 crs，其次对于 crsstat 脚本所在的安装路径应当具有写的权限

源文件下载： **http://blog.enkitec.com/wp-content/uploads/2012/07/crsstat.v1.2.2.zip**

下面是安装步骤

```
# cd /usr/local/bin
# unzip crsstat.v1.2.1.zip
# mv crsstat.v1.2.2 crsstat
# chmod 755 crsstat
# ./crsstat

# chmod 644 crsstat.env
```

校验 crsstat.env 文件配置是否正确

```
# more crsstat.env
GRID_HOME=/u01/app/11.2.0/grid
GRID_VER=11.2
```

2、演示用法

crsstat 用法比较简单，直接在提示符下执行 crsstat 命令即可，也可以使用 crsstat -h 输出 crsstat 的帮助信息

a、crsstat 的帮助信息

```
[grid@linux1 ~]$ crsstat -h

Usage: crsstat [-h] [-c] [search term]

  -h => print this message
  -c => output the resources by cluster or local

Examples:
  crsstat               # show all resources
  crsstat listener      # only show listener resources
  crsstat database      # only show database resources
  crsstat -c listener   # only show database resources sorted by cluster/local

Output Contains the following fields:
  Resource Name
  Resource Type, which includes an identifier C-Cluster and L-Local
  Target State
  Current State
  Current Node (11gR2: or the last node in paraenthesis if the resource is Offline)
  Failure Count (11gR2 only)
  Restart Count (11gR2 only)
```

b、使用 crsstat 查看集群资源

#显示所有的资源　　State Details (11gR2 only)

```
[root@node1 ~]#  crsstat

Resource Name                                 Resource Type    Target     State        Node            FC RC State Details
------------------------------------------- ---------------- ---------- ------------ --------------- -- -- ---------------
ora.ARCH.dg                                   diskgroup      L ONLINE     ONLINE       node1            0
ora.ARCH.dg                                   diskgroup      L ONLINE     ONLINE       node2            0
ora.DATA.dg                                   diskgroup      L ONLINE     ONLINE       node1            0
ora.DATA.dg                                   diskgroup      L ONLINE     ONLINE       node2            0
ora.LISTENER.lsnr                             Listener       L ONLINE     ONLINE       node1            0
ora.LISTENER.lsnr                             Listener       L ONLINE     ONLINE       node2            0
ora.LISTENER_SCAN1.lsnr                       SCAN Listener  C ONLINE     ONLINE       node1            0
ora.OVDISK.dg                                 diskgroup      L ONLINE     ONLINE       node1            0
ora.OVDISK.dg                                 diskgroup      L ONLINE     ONLINE       node2            0
ora.TEST.dg                                   diskgroup      L ONLINE     ONLINE       node1            0
ora.TEST.dg                                   diskgroup      L ONLINE     ONLINE       node2            0
ora.asm                                       ASM            L ONLINE     ONLINE       node1            0    Started
ora.asm                                       ASM            L ONLINE     ONLINE       node2            0    Started
ora.db.db                                     database       C OFFLINE    OFFLINE      (node1)          0
ora.db.db                                     database       C OFFLINE    OFFLINE      (node2)          0
ora.eons                                      eons           L ONLINE     ONLINE       node1            0
ora.eons                                      eons           L ONLINE     ONLINE       node2            0
ora.gsd                                       Gbl Svc Daemon L OFFLINE    OFFLINE      (node1)          0
ora.gsd                                       Gbl Svc Daemon L OFFLINE    OFFLINE      (node2)          0
ora.jmrac.db                                  database       C ONLINE     ONLINE       node1            0    Open
ora.jmrac.db                                  database       C ONLINE     ONLINE       node2            0    Open
ora.jmrac.haha.svc                            service        C ONLINE     ONLINE       node1            0
ora.jmrac.haha.svc                            service        C ONLINE     ONLINE       node2            0
ora.net1.network                              Network (VIP)  L ONLINE     ONLINE       node1            0
ora.net1.network                              Network (VIP)  L ONLINE     ONLINE       node2            0
ora.node1.vip                                 Cluster VIP    C ONLINE     ONLINE       node1            0
ora.node2.vip                                 Cluster VIP    C ONLINE     ONLINE       node2            0
ora.oc4j                                      OC4J           C OFFLINE    OFFLINE      ()               0
ora.ons                                       Ora Notif Svc  L ONLINE     ONLINE       node1            0
ora.ons                                       Ora Notif Svc  L ONLINE     ONLINE       node2            0
ora.registry.acfs                             registry       L ONLINE     ONLINE       node1            0
ora.registry.acfs                             registry       L ONLINE     ONLINE       node2            0
ora.scan1.vip                                 SCAN VIP       C ONLINE     ONLINE       node1            0
[root@node1 ~]#
```

c、其它用法

#显示 service 相关的信息

```
[root@node1 ~]# crsstat service
Resource Name                                 Resource Type    Target     State        Node            FC RC State Details
------------------------------------------- ---------------- ---------- ------------ --------------- -- -- ---------------
ora.jmrac.haha.svc                            service        C ONLINE     ONLINE       node1            0
ora.jmrac.haha.svc                            service        C ONLINE     ONLINE       node2            0
```

#显示集群中已注册数据库的信息

```
[root@node1 ~]# crsstat database


Resource Name                                 Resource Type    Target     State        Node            FC RC State Details
----------------------------------------- ---------------- ---------- ------------ --------------- -- -- ---------------
ora.db.db                                 database       C OFFLINE    OFFLINE      (node1)          0
ora.db.db                                 database       C OFFLINE    OFFLINE      (node2)          0
ora.jmrac.db                              database       C ONLINE     ONLINE       node1            0    Open
ora.jmrac.db                              database       C ONLINE     ONLINE       node2            0    Open
[root@node1 ~]#
```

#显示集群中监听器的信息

```
[root@node1 ~]# crsstat lsnr


Resource Name                                 Resource Type    Target     State        Node            FC RC State Details
----------------------------------------- ---------------- ---------- ------------ --------------- -- -- ---------------
ora.LISTENER.lsnr                         Listener       L ONLINE     ONLINE       node1            0
ora.LISTENER.lsnr                         Listener       L ONLINE     ONLINE       node2            0
ora.LISTENER_SCAN1.lsnr                   SCAN Listener  C ONLINE     ONLINE       node1            0
[root@node1 ~]#
```

```
#也可以结合 grep 命令来过滤
[root@node1 ~]# crsstat | grep -i offline
ora.db.db                                 database       C OFFLINE    OFFLINE      (node1)          0
ora.db.db                                 database       C OFFLINE    OFFLINE      (node2)          0
ora.gsd                                   Gbl Svc Daemon L OFFLINE    OFFLINE      (node1)          0
ora.gsd                                   Gbl Svc Daemon L OFFLINE    OFFLINE      (node2)          0
ora.oc4j                                  OC4J           C OFFLINE    OFFLINE      ()               0
[root@node1 ~]#

[root@node1 ~]# crsstat -c listener


Resource Name                                 Resource Type    Target     State        Node            FC RC State Details
----------------------------------------- ---------------- ---------- ------------ --------------- -- -- ---------------
Local Resources
--------------------------------------------------------------------------------
ora.LISTENER.lsnr                         Listener       L ONLINE     ONLINE       node1            0
ora.LISTENER.lsnr                         Listener       L ONLINE     ONLINE       node2            0

Cluster Resources
--------------------------------------------------------------------------------
ora.LISTENER_SCAN1.lsnr                   SCAN Listener  C ONLINE     ONLINE       node1            0
[root@node1 ~]#
```

.....

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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