Администрирование Oracle: Practice #5

RMAN. Simple backup

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1. Вывести текущие настройки RMAN

```
RMAN> connect target;

connected to target database: ORCL (DBID=1500693980)
using target database control file instead of recovery catalog

RMAN> show all;

RMAN configuration parameters for database with db_unique_name ORCL are:
CONFIGURE RETENTION POLICY TO REDUNDANCY 1; # default
CONFIGURE BACKUP OPTIMIZATION OFF; # default
CONFIGURE DEFAULT DEVICE TYPE TO DISK; # default
CONFIGURE CONTROLFILE AUTOBACKUP ON; # default
CONFIGURE CONTROLFILE AUTOBACKUP FORMAT FOR DEVICE TYPE DISK TO '%F'; # default
CONFIGURE DEVICE TYPE DISK PARALLELISM 1 BACKUP TYPE TO BACKUPSET; # default
CONFIGURE DATAFILE BACKUP COPIES FOR DEVICE TYPE DISK TO 1; # default
CONFIGURE ARCHIVELOG BACKUP COPIES FOR DEVICE TYPE DISK TO 1; # default
CONFIGURE MAXSETSIZE TO UNLIMITED; # default
CONFIGURE ENCRYPTION FOR DATABASE OFF; # default
CONFIGURE ENCRYPTION ALGORITHM 'AES128'; # default
CONFIGURE COMPRESSION ALGORITHM 'BASIC' AS OF RELEASE 'DEFAULT' OPTIMIZE FOR LOAD TRUE ; # default
CONFIGURE RMAN OUTPUT TO KEEP FOR 7 DAYS; # default
CONFIGURE ARCHIVELOG DELETION POLICY TO NONE; # default
CONFIGURE SNAPSHOT CONTROLFILE NAME TO '/home/oracle/app/oracle/product/12.2.0/dbhome_1/dbs/snapcf_orcl.f'; # default

RMAN>
```

2. Создать схему каталог восстановления:

```
SQL> CREATE TABLESPACE tools DATAFILE '/home/oracle/app/oracle/oradata/orcl/file_1.dbf' SIZE 100M;

Tablespace created.

SQL>
```

```
SQL> CREATE USER rman IDENTIFIED BY qwerty
  TEMPORARY TABLESPACE temp
  DEFAULT TABLESPACE tools
  QUOTA UNLIMITED ON tools;  2    3    4

User created.

SQL> GRANT RECOVERY_CATALOG_OWNER TO rman;

Grant succeeded.
```

```
RMAN> CONNECT CATALOG rman/qwerty@orcl;

connected to recovery catalog database

RMAN> CREATE CATALOG;

recovery catalog created

RMAN> REGISTER DATABASE;

database registered in recovery catalog
starting full resync of recovery catalog
full resync complete
```

3. Выполнить полный бэкап базы как сжатый backupset вместе с архивлогами на тип DISK:

```
RMAN> BACKUP CURRENT CONTROLFILE FORMAT '/bck/%U';

Starting backup at 04-JUN-18
using channel ORA_DISK_1
channel ORA_DISK_1: starting full datafile backup set
channel ORA_DISK_1: specifying datafile(s) in backup set
including current control file in backup set
channel ORA_DISK_1: starting piece 1 at 04-JUN-18
channel ORA_DISK_1: finished piece 1 at 04-JUN-18
piece handle=/bck/07t4iqpo_1_1 tag=TAG20180604T040823 comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:00:02
Finished backup at 04-JUN-18

Starting Control File and SPFILE Autobackup at 04-JUN-18
piece handle=/home/oracle/app/oracle/product/12.2.0/dbhome_1/dbs/c-1500693980-20180604-01 comment=NONE
Finished Control File and SPFILE Autobackup at 04-JUN-18
```

```
RMAN> BACKUP SPFILE FORMAT '/bck/%U';

Starting backup at 04-JUN-18
using channel ORA_DISK_1
channel ORA_DISK_1: starting full datafile backup set
channel ORA_DISK_1: specifying datafile(s) in backup set
including current SPFILE in backup set
channel ORA_DISK_1: starting piece 1 at 04-JUN-18
channel ORA_DISK_1: finished piece 1 at 04-JUN-18
piece handle=/bck/09t4iqqu_1_1 tag=TAG20180604T040901 comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:00:01
Finished backup at 04-JUN-18

Starting Control File and SPFILE Autobackup at 04-JUN-18
piece handle=/home/oracle/app/oracle/product/12.2.0/dbhome_1/dbs/c-1500693980-20180604-02 comment=NONE
Finished Control File and SPFILE Autobackup at 04-JUN-18
```

4. Сделать backup control файла и spfile в каталог /bck/

```
RMAN> BACKUP DEVICE TYPE DISK AS COMPRESSED BACKUPSET DATABASE PLUS ARCHIVELOG;


Starting backup at 04-JUN-18
using target database control file instead of recovery catalog
allocated channel: ORA_DISK_1
channel ORA_DISK_1: SID=261 device type=DISK
specification does not match any archived log in the repository
backup cancelled because there are no files to backup
Finished backup at 04-JUN-18

Starting backup at 04-JUN-18
using channel ORA_DISK_1
channel ORA_DISK_1: starting compressed full datafile backup set
channel ORA_DISK_1: specifying datafile(s) in backup set
input datafile file number=00001 name=/home/oracle/app/oracle/oradata/orcl/system01.dbf
input datafile file number=00003 name=/home/oracle/app/oracle/oradata/orcl/sysaux01.dbf
input datafile file number=00004 name=/home/oracle/app/oracle/oradata/orcl/undotbs01.dbf
input datafile file number=00014 name=/home/oracle/app/oracle/oradata/orcl/file_1.dbf
input datafile file number=00013 name=/home/oracle/app/oracle/product/12.2.0/dbhome_1/dbs/undots_g.dbf
input datafile file number=00007 name=/home/oracle/app/oracle/oradata/orcl/users01.dbf
channel ORA_DISK_1: starting piece 1 at 04-JUN-18
channel ORA_DISK_1: finished piece 1 at 04-JUN-18
piece handle=/home/oracle/app/oracle/product/12.2.0/dbhome_1/dbs/01t4ioom_1_1 tag=TAG20180604T033337 comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:09:18
channel ORA_DISK_1: starting compressed full datafile backup set
channel ORA_DISK_1: specifying datafile(s) in backup set
input datafile file number=00010 name=/home/oracle/app/oracle/oradata/orcl/orclpdb/sysaux01.dbf
input datafile file number=00009 name=/home/oracle/app/oracle/oradata/orcl/orclpdb/system01.dbf
input datafile file number=00011 name=/home/oracle/app/oracle/oradata/orcl/orclpdb/undotbs01.dbf
```

```
channel ORA_DISK_1: specifying datafile(s) in backup set
input datafile file number=00010 name=/home/oracle/app/oracle/oradata/orcl/orclpdb/sysaux01.dbf
input datafile file number=00009 name=/home/oracle/app/oracle/oradata/orcl/orclpdb/system01.dbf
input datafile file number=00011 name=/home/oracle/app/oracle/oradata/orcl/orclpdb/undotbs01.dbf
input datafile file number=00012 name=/home/oracle/app/oracle/oradata/orcl/orclpdb/users01.dbf
channel ORA_DISK_1: starting piece 1 at 04-JUN-18
channel ORA_DISK_1: finished piece 1 at 04-JUN-18
piece handle=/home/oracle/app/oracle/product/12.2.0/dbhome_1/dbs/02t4ipa6_1_1 tag=TAG20180604T033337 comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:06:16
channel ORA_DISK_1: starting compressed full datafile backup set
channel ORA_DISK_1: specifying datafile(s) in backup set
input datafile file number=00006 name=/home/oracle/app/oracle/oradata/orcl/pdbseed/sysaux01.dbf
input datafile file number=00005 name=/home/oracle/app/oracle/oradata/orcl/pdbseed/system01.dbf
input datafile file number=00008 name=/home/oracle/app/oracle/oradata/orcl/pdbseed/undotbs01.dbf
channel ORA_DISK_1: starting piece 1 at 04-JUN-18
channel ORA_DISK_1: finished piece 1 at 04-JUN-18
piece handle=/home/oracle/app/oracle/product/12.2.0/dbhome_1/dbs/03t4ipm6_1_1 tag=TAG20180604T033337 comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:09:23
Finished backup at 04-JUN-18

Starting backup at 04-JUN-18
using channel ORA_DISK_1
specification does not match any archived log in the repository
backup cancelled because there are no files to backup
Finished backup at 04-JUN-18

Starting Control File and SPFILE Autobackup at 04-JUN-18
piece handle=/home/oracle/app/oracle/product/12.2.0/dbhome_1/dbs/c-1500693980-20180604-00 comment=NONE
Finished Control File and SPFILE Autobackup at 04-JUN-18
```