

## CRONTAB SCHEDULER JOB

*"At 04:05."*

next at 2022-07-13 04:05:00 random

5 4 \* \* \*

<u>minute</u>	<u>hour</u>	<u>day</u> (month)	<u>month</u>	<u>day</u> (week)
*				any value
'				value list separator
-				range of values
/				step values
@yearly				(non-standard)
@annually				(non-standard)
@monthly				(non-standard)
@weekly				(non-standard)
@daily				(non-standard)
@hourly				(non-standard)
@reboot				(non-standard)

### Automate RMAN Backup using Shell Script

In a real environment, you will not manually trigger all the Oracle database backups. You need an automated mechanism to trigger RMAN backups.

#### Create directory

On your database server, create a directory to hold RMAN backups and all related files. All the RMAN backups, logs and backup scripts are kept in one directory.

```
mkdir -p /u01/rman
```

#### Create RMAN backup script file

Let us create the RMAN backup script file to trigger DB FULL backup

```
vi /u01/rman/full_backup.sh
```

```
#!/bin/bash

./home/oracle/.bash_profile

export ORACLE_SID=sha

export ORACLE_HOME=/u01/app/oracle/product/12.1.0.1

export DATE=$(date +%y-%m-%d_%H%M%S)

rman target / log=/u01/rman/proddb_${DATE}.log << EOF

run

{

allocate channel ch1 device type disk format '/u01/rman/proddb_full_bkp_%u';
allocate channel ch2 device type disk format '/u01/rman/proddb_full_bkp_%u';

crosscheck backup;

delete noprompt obsolete;

backup database;

backup archivelog all delete input;

release channel ch1;

release channel ch2;

}

EOF
```

### **Schedule Backup Under Crontab**

Give execute permissions on the shell script

```
chmod 775 /u01/rman/full_backup.sh
```

Now you can go ahead and schedule the backup under the crontab. For example, we are scheduling backup to trigger at 2 am and 8 pm everyday

```
crontab -e
```

```
00 02,20 * * * /u01/rman/full_backup.sh
```

## CRONTAB ENTRY for blocking session

##Give permission to file for execution.

```
*/30 * * * * /opt/app/oracle/admin/orcl/scripts/session_lock_orcl.sh  
>/opt/app/oracle/admin/orcl/scripts/orcl_lock_cron.log 2>&1
```

```
[oracle@server1 ~]$ cat /opt/app/oracle/admin/orcl/scripts/session_lock_orcl.sh
```

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

```
export FILE_PATH=/opt/app/oracle/admin/orcl/scripts
```

```
cd $FILE_PATH
```

```
export ORACLE_SID=orcl
```

```
export ORACLE_HOME=/opt/app/oracle/product/12.2.0/db_1
```

```
$ORACLE_HOME/bin/sqlplus -S sys/oracle123@orcl as sysdba <<\EOF > deadlock_alert_orcl.log
```

```
SET FEEDBACK OFF;
```

```
SET PAGES 200 LINES 200;
```

```
COL SESS FOR 9999;
```

```
COL serial# FOR 9999;
```

```
COL type FOR a3;
```

```
COL USERNAME FOR a10;
```

```
COL SCHEMANAME FOR a100;
```

```
COL status FOR a100;
```

```
COL OSUSER FOR a100;
```

```
SELECT DECODE(request, 0, 'Holder: ', 'Waiter: ') || l.sid sess,
```

```
    s.serial#,
```

```
    s.inst_id,
```

```
    a.SQL_FULLTEXT,
```

```
    l.type,
```

```
    s.USERNAME,
```

```
    s.SCHEMANAME,
```

```
    s.status,
```

```

s.OSUSER,

l.CTIME,

l.id1,

l.id2,

l.lmode,

l.request

FROM gv$LOCK l, gv$session s,

gv$sqlarea a

WHERE (l.id1, l.id2, l.type) IN

(SELECT l1.id1, l1.id2, type FROM gv$LOCK l1 WHERE request > 0)

and l.sid = s.sid

and l.type = 'TX'

and l.inst_id=s.inst_id

and s.inst_id=a.inst_id

and a.SQL_ID=s.SQL_ID

ORDER BY l.id1, l.request;

exit

EOF

cat deadlock_alert_orcl.log | grep -v "rows" > adeadlock_alert_orcl.log

sed '/-/d' deadlock_alert_orcl.log > final_deadlock_alert_orcl.log

awk '{if (++dup[$0] == 1) print $0;}' final_deadlock_alert_orcl.log > finaldeadlock_alert_orcl.log

MAIL_ALERT=`cat finaldeadlock_alert_orcl.log | wc -l`

if [ "$MAIL_ALERT" -gt "0" ]

then

##EMAIL_ID=`cat /opt/oracle/backup/scripts/mail_id_list`

EMAIL_ID=ansh.kumar@oracle.com

export EMAIL_ID

mailx -s "Lock Detected in orcl `date +%d%m%Y%R`" $EMAIL_ID < $FILE_PATH/deadlock_alert_orcl.log

fi

rm *deadlock_alert_orcl.log

```

## Expdp Backup Using Shell Script

Configure a shell script, to take export backup of table daily at 3 PM and send the log to DBA.

Script: **expdp\_schema.sh**

[oracle@prod\_11g logical\_bkp]\$ cat **expdp\_schema.sh**

```
export ORACLE_SID=db11
export ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/usr/lib
export PATH=$ORACLE_HOME/bin:$PATH:/usr/local/bin
export TIMESTAMP=`date +%a%d%b%Y`
export EXP_DIR=/export/home/oracle

echo =====
echo Export command
echo =====
echo $ORACLE_HOME
$ORACLE_HOME/bin/expdp \\\ as sysdba\\ directory=test
dumpfile=expdp_tab_${TIMESTAMP}_%U.dmp logfile=expdp_log_${TIMESTAMP}.log
schemas=scott PARALLEL=1 COMPRESSION=ALL

echo SEND MAIL TO STAKE HOLDERS
echo =====
mailx -s "$ORACLE_SID $TIMESTAMP Export backup logfile" debkumar267@gmail.com <
$EXP_DIR/expdp_log_${TIMESTAMP}.log
echo Export completed at $TIMESTAMP
```

give 755 permission to **expdp\_schema.sh**

[oracle@prod\_11g logical\_bkp]\$ **chmod 755 expdp\_schema.sh**

Now configure the script in crontab as below( pass the ORACLE\_SID )

```
#00 15 * * * /u01/app/oracle/product/script/logical_bkp/expdp_schema.sh >>
/u01/app/oracle/product/script/logical_bkp/expdp_full.log db11
```