

How to restore archivelogs from backups?

Case:

1. DBA is backing up all the archivelogs to disk along with the dialy backups.
2. Once the backup is successfull, RMAN job deletes archivelogs from disk.
3. DBA now wants to retrieve the archivelogs back to disk.

Solution:

Depending on the requirement, DBA can now retrieve the archivelogs from one of the scenario below.

0. Login to Recovery Manager (RMAN).

```
export ORACLE_SID=MoidDB  
rman target /
```

1. How to restore all archivelogs?

It is highly unlikely that you have all the archivelogs since the database created. If you do and you want to restore all archivelogs from backup, then issue the following command at RMAN prompt.

```
restore ARCHIVELOG ALL;
```

2. How to restore archivelogs from last 1 day?

```
restore ARCHIVELOG FROM TIME 'SYSDATE-1' UNTIL TIME 'SYSDATE';
```

3. How to restore archivelogs from last 1 hour?

```
restore ARCHIVELOG FROM TIME 'SYSDATE-1/24' UNTIL TIME 'SYSDATE';
```

4. How to restore archive from a specific time til current time?

```
restore ARCHIVELOG FROM TIME "to_date('11/20/12 00:00:01','MM/DD/YY HH24:MI:SS') UNTIL TIME 'SYSDATE';
```

5. How to restore range of archivelogs from backup?

On the SQL Prompt, execute the following to find which sequence# that you want to restore.

```
set linesize 200
select
    thread#,
    sequence# as logseq,
    first_change# as Begin_log_SCN,
    next_change# as End_SCN,
    to_char(first_time, '          DD-MON-YY HH:MI:SS') Start_Time,
    resetlogs_change#,
    to_char(resetlogs_time, '          DD-MON-YY HH:MI:SS') Reset_Time
from v$log_history;
set linesize 80
```

Once you know the range of log sequence numbers, then execute the following at the RMAN Prompt. You will need to know the begin and end log sequence#.

```
restore archivelog from logseq = 801 until logseq = 899;
```

6. How to restore only ONE archivelog from backups?

```
restore archivelog from logseq = 801 until logseq = 801;
```

7. How to restore archivelogs to a different location?

From Tape:

```
run
{
    allocate channel t1 type 'sbt_tape';
    set archivelog destination to '/tmp';
    restore archivelog logseq 59593 ;
    release channel t1;
}
```

From Disk:

```
run
{
    allocate channel t1 type disk;
    set archivelog destination to '/tmp';
```

```
restore archivelog logseq 6259;  
release channel t1;  
}
```