

ASM

How do you check the network configuration?

```
$ ifconfig -a
$ ifconfig -a | grep eth
```

How do you check the kernel parameters?

```
$ cat /etc/sysctl.conf
```

How do you add/drop a disk?

```
ALTER DISKGROUP <dg_name> DROP DISK <disk_name>;
ALTER DISKGROUP DATA_GRP1 ADD DISK 'ORCL:DB_RECOVER24';
```

How do you check the progress of an erbalance operation?

```
select OPERATION, EST_MINUTES, STATE from v$asm_operation;
```

How do you start/stop an ASM instance?

```
srvctl stop asm -n <node_name> [-i <asm_instance_name>] [-o <stop_options>]
srvctl start asm -n `hostname`
```

How do you check the available space in an ASM diskgroup?

```
select NAME, STATE, TOTAL_MB, FREE_MB, USABLE_FILE_MB from v$asm_diskgroup;
```

What OS tool do you use to manage ASM?

ASM command line tool "asmcmd".

```
$ asmcmd
```

```
ASMCMD> lsdg
ASMCMD> ls -ltr
ASMCMD> cd <directory>
ASMCMD> pwd
```

Name important ASM views.

```
v$asm_disk
v$asm_diskgroup
v$asm_operation
```

What parameters do you set for ASM?

asm_diskstring
asm_diskgroup

What do you do if the “ASM archive log area is full”?

Check for space in ASM disk groups:

```
select NAME, STATE, TOTAL_MB, FREE_MB, USABLE_FILE_MB from v$asm_diskgroup;
```

Check the parameters

```
show parameter archive
```

```
show parameter recovery
```

=> The recovery area is used if the log_archive_dest* parameters are unset.

Check if there is space left in the recovery file dest:

```
select * from v$recovery_file_dest;
```

Increase the usable space or run a RMAN backup to free space.

```
alter system set db_recovery_file_dest_size=10g scope=both;
```

OR

RMAN backup

What are the advantages of ASM?

- Spreads I/O evenly across all disks by moving extents.
- Automatically rebalances extents when disks are added.
- Disks can be added without interrupting the database.
- ASM can be used to mirror data files.

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