

SECTION 10 Cluster File Systems

In this section of the workbook, you learn how to do the following:

- “Set up an OCFS2” on 10-2

In this exercise, you set up OCSF2.

Exercise 10-1 Set up an OCFS2

This exercise builds on the previous one, “Set up an iSCSI Target and an iSCSI initiator” on page 9-2.

You continue to work with the partner from Part III of that exercise.

The purpose of this exercise is to familiarize you with OCFS2. For a production environment you would most probably want some failover capacity (for instance by using DRBD and Heartbeat); this is not covered in this course.

In this exercise, you set up an OCFS2 on top of the devices provided by iSCSI as configured in the previous exercise.

1. On both computers, install the needed packages with the command:

```
yast -i ocfs-tools ocfs2console
```

2. On both computers, create an `/etc/ocfs2/cluster.conf` with the following content:

```
cluster:
  name = mycluster
  node_count = 2
node:
  name = daxe.digitalairlines.com
  cluster = mycluster
  number = 0
  ip_address = 10.0.0.xx
  ip_port = 7777
node:
  name = dayy.digitalairlines.com
  cluster = mycluster
  number = 1
  ip_address = 10.0.0.yy
  ip_port = 7777
```

Replace `xx` by the number of the machine running the iSCSI target, `yy` for the other one.

3. On both computers, configure the OCSF2 cluster services, using the command:

/etc/init.d/o2cb configure

Answer the questions appropriately.

4. On the machine providing the iSCSI target, create an OCFS2 file system, using the command:

mkfs.ocfs2 -b 4k -C 128k -N 4 -L mycluster /dev/sdx

Replace sdx by the proper device.

5. Create a directory /ocfs-cluster-fs
6. On both machines, create an entry in /etc/fstab for the file system, adding a line similar to the following to the existing entries:

```
/dev/sdb /ocfs-cluster-fs ocfs2 defaults 0 0
```

7. On both machines, mount the file system by entering

rcocfs2 start

Check if the file system has been mounted using the command mount.

8. On one machine create a file in /ocfs-cluster-fs; it should appear be visible in the other system.

(End of Exercise)

