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SUSE Support

How to recreate SBD partition in a SUSE HA cluster.

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Environment

SUSE Linux Enterprise High Availability Extension 12
SUSE Linux Enterprise High Availability Extension 11 Service Pack 4

Situation

At times you need to change the default values of the SBD partition or even recreate it on a different device. This can be done while the cluster and resources are up and running following these steps.

Resolution

Note: If you are concerned while doing this you can put the cluster in maintenance mode during this so that the cluster does not react to any failures.

Example: `crm configure property maintenance-mode=true`

SLES11 steps:

1. Stop the stonith sbd primitive in the cluster.
2. Check the `/etc/sysconfig/sbd` configuration file to see which device and options are currently used.

Example:

```
SBD_DEVICE="/dev/sdb1"
```

```
SBD_OPTS="-W -P"
```

3. Stop sbd on all nodes and all devices: `sbd -d <device> message LOCAL exit`

Verify that the sbd processes are no longer running. These processes will be gone after running the command.

```
ps -eaf | grep sbd
```

```
root    8695    1  0 13:11 pts/0    00:00:00 sbd: inquisitor
```



```
root 8696 8695 0 13:11 pts/0 00:00:00 sbd: watcher: /dev/sdb1 - slot: 0 - uuid: 47c245cb-2c80-49b5-9d1d-c2ec246c2f0a
```

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```
root 8699 8695 0 13:11 pts/0 00:00:01 sbd: watcher: Pacemaker
```

4. Create the new sbd partition/s on one of the nodes. Make sure you use same device that's in /etc/sysconfig/sbd

Example: `sbd -d /dev/sdb1 -l 30 -4 60 create`

Note: If the device is different than before, you will need to update the /etc/sysconfig/sbd on each node with the new device.

5. Restart the sbd processes with the options defined in the /etc/sysconfig/sbd on all nodes in the cluster.

`sbd -d <device> watch -P`

Verify that the same processes were restarted as we saw in step 3.

6. Start the stonith primitive in the cluster.

SLES12 steps (different because of systemd)

1. Stop the stonith sbd primitive in the cluster.

2. Check the /etc/sysconfig/sbd configuration file to see which device and options are currently used.

Example:

`SBD_DEVICE="/dev/sdb1"`

`SBD_OPTS="-W -P"`

3. Stop sbd on all nodes and all devices: Use the following script: /usr/share/sbd/sbd.sh stop

Verify that the sbd processes are no longer running. These processes will be gone after running the command.

`ps -eaf | grep sbd`

```
root 8695 1 0 13:11 pts/0 00:00:00 sbd: inquisitor
```

```
root 8696 8695 0 13:11 pts/0 00:00:00 sbd: watcher: /dev/sdb1 - slot: 0 - uuid: 47c245cb-2c80-49b5-9d1d-c2ec246c2f0a
```

```
root 8699 8695 0 13:11 pts/0 00:00:01 sbd: watcher: Pacemaker
```

4. Create the new sbd partition/s on one of the nodes. Make sure you use same device that's in /etc/sysconfig/sbd

Example: `sbd -d /dev/sdb1 -l 30 -4 60 create`

Note: If the device is different than before, you will need to update the /etc/sysconfig/sbd on each node with the new device.

5. At this point, just start the pacemaker service again on each node. Example: `systemctl start pacemaker`

This will run the "sbd.sh start" but properly link it in systemd and you will not have any issues when stopping pacemaker

Verify that the same processes were restarted as we saw in step 3.

6. Start the stonith primitive in the cluster.

Note: if you put cluster in maintenance mode, you can now take it out of maintenance mode.


Example: `crm configure property maintenance-mode=false`

Cause

When using the SLES11 method on SLES12, the sbd processes would not stop properly if you needed to stop pacemaker service for any reason.

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