

Website Hosting - Bug #65

MySQL Fails to Start on Ubuntu at Boot Time

02/06/2013 02:45 PM - Daniel Curtis

Status:	Closed	Start date:	02/06/2013
Priority:	Immediate	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	4.00 hours

Description

An unknown incident caused MySQL to fail starting up at boot time. This wiped out all of the data from every table and corrupted the ibdata1 file. The engine used on this version of MySQL is InnoDB.

1. Check to see if the service is running:

```
sudo service mysql status
```

2. Attempt to start MySQL

```
sudo service mysql start
```

The service fails to start.

3. Backup the corrupt ib files

```
sudo mkdir /var/lib/mysql/bak  
cp /var/lib/mysql/ib* /var/lib/mysql/bak
```

4. Start MySQL service with InnoDB recovery

```
mysqld --defaults-file=/etc/mysql/my.cnf --innodb-force-recovery=6
```

5. Dump the recovered MySQL databases to backup.sql

```
mysqldump -u root -p --all-databases > backup.sql
```

6. Stop MySQL service with InnoDB recovery

```
ps -aux | grep mysql  
kill -s kill <PID#>
```

7. Purge the corrupt ib files.

NOTE: Remember to backup the corrupt ib files first. If something goes wrong with the working corrupt files, there will be nothing to fall back to.

```
sudo rm -rf /var/lib/mysql/ib*
```

8. Start the normal MySQL

```
sudo service mysql start
```

9. Import recovered databases from backup.sql

```
sudo mysql -u root -p < backup.sql
```

History

#1 - 02/06/2013 02:46 PM - Daniel Curtis

- *Description updated*

#2 - 02/06/2013 02:49 PM - Daniel Curtis

- *Assignee set to Daniel Curtis*

- *% Done changed from 0 to 100*

I have still yet to find the cause of this database corruption. But I have managed to save the databases, and create backups of the databases. I should really look at setting up some sort of backup scheme on the Collaboration Server.

#3 - 02/06/2013 02:49 PM - Daniel Curtis

- *Status changed from New to Closed*

#4 - 03/02/2013 02:13 PM - Daniel Curtis

- *Project changed from 10 to Website Hosting*

#5 - 08/07/2013 12:33 PM - Daniel Curtis

- *Private changed from Yes to No*