Container specific

MySQL

Error migrating from 5.x to 8.x

Error messages

- ORDER BY clause is not in SELECT list, references column ... ([more])
- Invalid default value for 'CreatedAt' ([more])

The default SQL mode is causing trouble:

- ONLY_FULL_GROUP_BY (prevent order on fields not selected)
- STRICT_TRANS_TABLES (prevent default date values)
- NO_AUTO_VALUE_ON_ZERO (allow default date values)

Temporary fix

```
SET GLOBAL sql_mode='NO_AUTO_VALUE_ON_ZERO';
```

Permanent fix Set it in the configuration file

1. Open my.ini
2. Replace sql_mode definition with

```
sql_mode="NO_AUTO_VALUE_ON_ZERO"
```

Driver for +8.4 not being used

Make sure that the 8.4 driver is present in

- TOMCAT\lib
- TOMCAT\webapps\XXX\WEB-INF\lib

In the application context file: TOMCAT\conf\Catalina\localhost\XXX.xml

```
driverClassName=com.mysql.jdbc.Driver
```

Should be changed to (simply add '.cj')

```
driverClassName=com.mysql.cj.jdbc.Driver
```

Import timeouts

Sometimes large blobs will cause timeouts when running the mysql tool

- Create a config file with (example import.cnf)

```
[mysqld]
max_allowed_packet=1024M
innodb_lock_wait_timeout=3600
net_read_timeout=3600
net_write_timeout=3600
wait_timeout=3600
innodb_log_file_size=2048M
innodb_log_buffer_size=2048M
bulk_insert_buffer_size=1024M
```

- Then a parameter in the import --

```
mysql.exe --defaults-file=import.cnf ...
```

Unable to restart services

Kill the underlying processes for both webserver and database

```
sudo killall -KILL mysqld_safe mysqld
```

If you cannot start MySQL again try removing the logfiles

```
sudo mv /mnt/sda/mysql/ib_logfile0 /mnt/sda/backup/
sudo mv /mnt/sda/mysql/ib_logfile1 /mnt/sda/backup/
sudo mv /mnt/sda/mysql/ibdata1 /mnt/sda/backup/
```

In some cases DB table repairs are needed

```
sudo nano /etc/my.cnf
```

Add the line

```
innodb_force_recovery = 1
```

Recover data from backup

Create a restore script

```
sudo nano ./restoreall.sh
chmod 777 ./restoreall.sh
```

Add the following

```
APP="ts"

for sql_file in `ls /mnt/sda/backup/rsync/${APP}base_*.sql`;
do mysql -uroot -pPASSWORD ${APP}base < $sql_file ;
done

for sql_file in `ls /mnt/sda/backup/rsync/${APP}live_*.sql`;
do mysql -uroot -pPASSWORD ${APP}live < $sql_file ;
done

for sql_file in `ls /mnt/sda/backup/rsync/${APP}test_*.sql`;
do mysql -uroot -pPASSWORD ${APP}test < $sql_file ;
done
```

Encoding problems with SQL dumps

If it is caused by special characters (æøå) in the sql files

1. Open the .sql file in Notepad++
2. Set encoding to ANSI
3. Save

Tomcat

Warning during server stop

Example

> *SEVERE: The web application [/sandbox] registered the JDBC driver [com.mysql.jdbc.Driver] but failed to unregister it when the web application was stopped. To prevent a memory leak, the JDBC Driver has been forcibly unregistered.*

The warning is of no importance because the shutdown automatically kills all objects in memory, and no memory leaks are there possible.

JBoss

WARN errors during boot

Example

> *17:56:40,337 WARN [org.jboss.as.server.deployment] (MSC service thread 1-12) Class Path entry ...*

The warnings are due to jar taht have their version number appended to their name. Possible fixes include stripping the names of all jar files in the /WEB-INF/lib/, but recommended solution is ignoring the warnings.

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