

GroundWork Monitor Professional 5.1.0 Tech Note

Foundation migration failure when migrating GWMON 5.0.4 or 5.0.5 to GWMON 5.1

ERROR DESCRIPTION

Running an upgrade from GroundWork Monitor 5.0.4 or 5.0.5 that was previously upgraded from any prior GroundWork release might run into the following message when the groundwork-foundation RPM package is upgraded:

Run Foundation migration script:

```
ERROR 1452 (23000) at line 424: Cannot add or update a child row: a foreign key constraint fails (`GWCollageDB/#sql-6a68_1`, CONSTRAINT `fk_LogMessage_DeviceID` FOREIGN KEY (`DeviceID`) REFERENCES `Device` (`DeviceID`) ON DELETE CASCADE)
```

The above error is caused by the erroneous removal of foreign key constraints from the GWCollageDB LogMessage table during a 5.0.4 / 5.0.5 upgrade. Since the upgrade to 5.0.4 / 5.0.5 removed constraints from the LogMessage table there is potential that the referential integrity for rows in the table has been compromised. When a host / device is removed from the system, the LogMessage table may not be updated properly due to the missing constraints (Depending if there are rows in the LogMessage table that were related to the host / device that was removed). As part of the 5.1 upgrade, we are adding the constraints back to the LogMessage table, but because there may be existing data in the LogMessage table where referential integrity has been compromised, the upgrade to 5.1 fails when trying to add the constraints back to the LogMessage table. In the next maintenance release, we have fixed the upgrade so that it insures the constraints are properly added to the LogMessage table.

SOLUTION

Scenario 1

A GroundWork Monitor installation has been upgraded from a previous version (4.5.x or 5.0.x) to release 5.0.4 or release 5.0.5 and has not yet applied the upgrade to release 5.1

1. Open a console window with **root** access
2. All the MySQL commands will prompt for the **root** password. If you have not set the password press return.
3. Backup the Foundation database with the following command:
`mysqldump -uroot -p GWCollageDB > GWCollageDB-5.0-backup.sql`
4. Apply the Foundation patch:
`mysql -uroot -p GWCollageDB < migrate-gwcollagedb.sql`
5. Proceed with the upgrade instructions in the Install Guide for GroundWork Monitor 5.1.

Scenario 2

A GroundWork Monitor 5.0.4 or 5.0.5 to 5.1 upgrade runs and receives the error above when upgrading Foundation

In this scenario the backup of the Foundation database needs to be restored.

1. Open a console window with **root** access
2. All the MySQL commands will prompt for the **root** password. If you have not set the password press return.
3. Stop the gwservices:
`/etc/init.d/gwservices stop`
4. Restore Foundation:
`mysql -uroot -p GWCollageDB < YOUR_FOUNDATION_BACKUP.SQL`
5. Apply Foundation patch:
`mysql -uroot -p GWCollageDB < migrate-gwcollagedb.sql`
6. Start gwservices:
`/etc/init.d/gwservices start`
7. Reinstall the foundation rpm:
`rpm -Uvh --force groundwork-foundation-1.6.1-.rpm`
8. Proceed with the upgrade for the other packages groundwork-monitor-core and groundwork-monitor-pro.