

Update to IPBrick v5.1

April 15, 2009

1 Introduction

This document refers to the migration process from previous IPBrick versions to the new v5.1.

On the following sections you'll find a description about the two different possibilities to update to IPBrick v5.1:

1. migration using IPBrick updates
2. migration using IPBrick automatic installation CD

VERY IMPORTANT: IPBrick v5.1 installation CD does not include MySQL DataBase Server.

2 Migration using IPBrick updates

NOTE: This option is only valid for IPBrick servers running version 5.0.1. Existing MySQL Databases will be kept after the installation of all v5.0.1 updates.

- To update to v5.1 it is only necessary to download all the available updates for v5.0.1 from www.ipbrick.com and insert them through the IPBrick web interface.
- update_24-5.0.1 can only be installed after the installation of the `spfpackages_1.0_all.deb` package.
- `ipbrick-501-new-packages_1.0_all.deb` package will update some IPBrick software packages forcing the respective services to be restarted. So, **DO NOT install** this package on a production system during business hours.
- `ipbrick-501-new-packages_1.0_all.deb` package is about 82MB, so it will take some time to be fully installed. Please wait until a success message be presented on IPBrick web interface.
- update_27-v5.0.1 can only be installed after the installation of the `ipbrick-501-new-packages_1.0_all.deb`.
- The last update to be inserted is `update_43-v5.0.1`.
- After inserting all updates **Apply Configurations**.

VERY IMPORTANT NOTES FOR IPBrick.GT SCENARIOS

- Since MySQL DataBase Server is not present on IPBrick v5.1, the old IPBrick MySQL dependencies are replaced by PostgreSQL and some MySQL data (VoIP Call statistics) is migrated from MySQL to PostgreSQL. This is done on `update_27-v5.0.1`.
- `update_27-v5.0.1` will only install after testing if there is enough free space on the databases partition (`/var`) to proceed with the MySQL to PostgreSQL migration. If the test returns false, then you'll get an error message like the following one (example values are used):

```
Size of Call Statistics database: 2.41 GB
```

```
Available space on the databases partition (/var): 3.91 GB
```

```
To install this update you need at least 6.02 GB available on the /var partition.
```

```
In this situation, please contact our support (support.install@ipbrick.com).
```

- After installing `update_27-v5.0.1`, the migration process only starts after the “Apply Configurations” and will be executing in the system background, so do not reboot your server while the migration has not been completed.
- In order to know whether the migration has been already completed, an email is sent to the Administrator (by default `administrator@domain.com`) reporting the migration success.
- Due to the high processing required for the database migration, **DO NOT install** `update_27-v5.0.1` on a production system during business hours.
- When the migration process is canceled, for example, due to a non-controlled server reboot, IPBrick will resume this job at the next server startup. If this happens, the following message will be displayed on the screen just before the login console:

```
Resuming MySQL to PostgreSQL Call Statistics migration ...
```

3 Migration using IPBrick automatic installation CD

3.1 Very important! Check list to verify before starting the update

Before starting the migration to v5.1, there are some previous steps that must be checked:

- As in all IPBrick updates using CD it is advisable to have a full backup of the server data
- Backup the last IPBrick configuration from
Advanced Settings->Disaster Recovery->Configurations->Download
- Request the new IPBrick v5.1 configuration. After downloading the last IPBrick configuration, please send it to support.install@ipbrick.com

VERY IMPORTANT NOTES FOR IPBrick.GT SCENARIOS

- Since MySQL DataBase Server is not present on IPBrick v5.1 installation CD, the old IPBrick MySQL dependencies are replaced by PgSQL and some MySQL data (VoIP Call statistics) is migrated from MySQL to PgSQL.
- This MySQL to PgSQL migration is done automatically during the installation process.
- To guarantee that this process completes successfully, it is necessary to verify if there is enough free space on the databases partition (/var) to execute the migration.
- To get this information, please upload the package named "checkupdateto5.1.deb" on IPBrick web interface (Advanced Settings->IPBrick->Update). This package can be downloaded from:
<http://downloads.ipbrick.com/IPBrick/download/v5.1/checkupdateto51.deb>.
- When applying this package, you'll get either one of the following messages (example values are used):
 - Size of Call Statistics database: 73.41 MB

Available space on the databases partition (/var): 3.91 GB

Test result: OK
Required conditions to update to IPBrick v5.1 are verified.
You can proceed with the reinstallation of the server.
 - Size of Call Statistics database: 2.41 GB

Available space on the databases partition (/var): 3.91 GB

Test result: NOT OK
To install this update you need at least 6.02 GB available on the /var partition.
REQUIRED CONDITIONS TO UPDATE TO IPBRICK V5.1 ARE NOT VERIFIED.
DO NOT REINSTALL THE SERVER!!
- Only if the test result is OK, you may proceed with the reinstallation of the server. If the test result is NOT OK, please contact our support (support.install@ipbrick.com).

3.2 Reinstall server and replace configurations

- After receiving the new IPBrick v5.1 configuration proceed with the installation of the server using the IPBrick v5.1 installation CD.

VERY IMPORTANT NOTE FOR IPBrick.GT SCENARIOS

- When reinstalling an IPBrick.GT server, VoIP Call statistics will be migrated from MySQL to PostgreSQL. This process may take a while, depending on the size of the current call statistics database (this size is shown when applying `checkupdate5.1.deb` package). While executing this step, the following message is presented on the screen:

"USING PARTITION 7 (or 8) FOR SYSTEM DATA BACKUP"

DO NOT REBOOT THE SERVER WHILE THIS STEP IS BEEING EXECUTED!

- When finished, IPBrick will have again the default configuration. Access to IPBrick web interface and upload the new configuration on `Advanced Settings->Disaster Recovery->Configurations->Upload`
- Replace the configurations for v5.1 by selecting the uploaded file on `Advanced Settings->Disaster Recovery->Configurations->Replace`
- After replacing the new configuration, the server will be again with the original configurations and running the new IPBrick v5.1

3.3 Applications Disaster Recovery

When installing IPBrick on a server that has already an IPBrick installed, the disaster recovery mechanism executes automatically a full backup of all existing databases (MySQL and PostgreSQL), so after the installation all databases can be restored. But since MySQL server is not installed by default on IPBrick v5.1, only PGSQL databases will be restored. So, to execute the Applications Disaster Recovery, you must do the following:

- If there were also MySQL databases on the server (for example, used on web sites), and it is mandatory to keep them, first install MySQL server package. Download this package from: http://downloads.ipbrick.com/IPBrick/download/v5.1/mysqlserver4ipbrick_5.0.32-7etch5_i386.deb and insert it on `Advanced Settings->IPBrick->Update`.
- Go to `Advanced Settings->Disaster Recovery->Applications->Restore`
- Select the respective applications backup and restore it