

## Vembu StoreGrid Professional Edition - Linux Installation Guide

The Linux version of StoreGrid is available for download at the following URL: <http://www.vembu.com/storegrid/computer-backup.html>

The Linux builds are pre-compiled and all the required dependencies are included in the build itself. You don't have to install the dependencies separately.

The libstdc++.so.5 is a run time compilation library required for StoreGrid Application to run in the machine. This library can be downloaded and installed from <http://gcc.gnu.org/libstdc++/>

**Note: Linux installation should be run with the root user privileges.**

**Once you have ensured that the above packages are all available in your linux machine, follow the steps given below to install StoreGrid:**

1. Unzip the downloaded ZIP file.
2. Execute the bin file
  - For RedHat Linux 8.0, 9.0 and Later, RedHat EL 4 and Later, CentOS 4 and Later, Fedora Core 3 and Later, SuSE Linux 9.x and Later: **./VembuStoreGrid\_2\_3\_5\_RH.bin**
  - For Mandrake Linux 10.0 and Later: **./VembuStoreGrid\_2\_3\_5\_MDK.bin**
  - For Debian Linux 3.0 and Later: **./VembuStoreGrid\_2\_3\_5\_DBN.bin**

StoreGrid needs root user privileges. Hence if StoreGrid is installed as an user which does not have root privileges, the installation will abort with the message 'You need root user privileges'. This is applicable for upgrades as well.

3. The first step in the installation is to choose the type of installation. You can select from one of the two options :
  - You can install StoreGrid in a newly created StoreGrid user account, where the StoreGrid user account will be automatically created with root privileges
  - You can install StoreGrid in the current user account.

Choose option 1, if you want StoreGrid to backup user data, MySQL, System Files etc. Note that StoreGrid will be installed as a daemon process and will automatically start when the system boots up. You can START and STOP StoreGrid by running the command `"/etc/init.d/storegrid start/stop"`. You can check the status of StoreGrid application by running the command `"/etc/init.d/storegrid status"`.

Choose option 2, if you want StoreGrid to be installed as an application to backup only the system files and folders. Note that StoreGrid will be installed in the current user directory and has to be manually started every time the machine is rebooted. You can START and STOP StoreGrid by running the script `startStoreGrid.sh` and `stopStoreGrid.sh`

4. If StoreGrid is installed fresh and you chose option 1 in the above step, then you will be asked to provide a password for the StoreGrid user account which is created. Note that StoreGrid will be installed as a daemon process and will automatically start when the system boots up. You can START and STOP StoreGrid by running the command `"/etc/init.d/storegrid start/stop"`. You can check the status of StoreGrid application by running the command `"/etc/init.d/storegrid status"`.

If you chose option 2, then you will be taken to the next step directly. Note that StoreGrid will be installed in the current user directory and has to be manually started every time the machine is rebooted. You can START and STOP StoreGrid by running the script `startStoreGrid.sh` and `stopStoreGrid.sh`

5. Read through the License Agreement carefully. If you agree, enter **Yes** to continue with the installation. If you do not agree, enter **No** to abort the installation.
6. If you had chosen option 2 for the type of installation, StoreGrid will ask for a location to install StoreGrid. By default StoreGrid will be installed in the "Current Directory". StoreGrid setup will be installed under "Vembu/StoreGrid" in the "Current Directory" directory. To install in a different directory, enter the absolute path (full path) for Vembu StoreGrid installation. Note that the setup will create the "Vembu/StoreGrid" directory under the directory you entered.
7. If StoreGrid is already in the installed location, StoreGrid will try to upgrade. The installation will ask the user whether the previous setup can be migrated or not. Enter 'yes' to continue up gradation and 'no' to abort the installation.

**StoreGrid can be upgraded to 2.3.5 from StoreGrid version 2.3**

## 8. Configure StoreGrid as :

You need to choose one of the options (Client-Server, Client, Server or Replication Server). The four modes are explained in detail below.

- **Client-Server** - This option will configure this StoreGrid installation to run in full peer mode, which means StoreGrid can function both as a client backing up local files/folders to other StoreGrid peers and also as a server which can be used for backing up data from other StoreGrid installations.
- **Client** - This option will configure this StoreGrid installation to run only as a client (half peer), which means StoreGrid can backup local files/folders to a StoreGrid backup server but cannot accept backup data from other StoreGrid installations.
- **Server** - This option will configure this StoreGrid installation to run only as a server (half peer), which means StoreGrid can accept backup data from other StoreGrid installations but cannot backup local files/folders to other StoreGrid peers.
- **Replication Server** - Other StoreGrid backup servers can replicate their data to this server for redundancy but cannot accept backup data from other StoreGrid peers.

## 9. Assign A StoreGrid ID:

StoreGrid ID is the unique name with which your StoreGrid installation is identified. By default, it takes your machine name as the StoreGrid ID. But we recommend giving a globally unique ID. Here you will be provided with these options:

- "Do you want to identify your machine name by other than hostname"
- If you enter "y/Y" then following text will displayed in terminal to enter StoreGrid ID.
- "Enter StoreGrid ID"
- Enter the StoreGrid ID for your installation. We recommend using your email id for this.

**Note:**The StoreGrid ID value is case insensitive. Hence, the 'StoreGrid ID' you have entered will be automatically converted to lower case.

**Group Name:** Enter valid StoreGrid Group Name. The StoreGrid Group name is the 'name' under which your client is categorized (on the backup server). By default, this is set to "Default Group ". Please leave this as the default "Default Group".

## 10. Configure StoreGrid Server backup location:

By default, StoreGrid Server will store the backup data from the clients to the "<INSTALLATION\_DIR>/Vembu/StoreGrid" directory. If you want to change the server's default backup location, here you will be provided with these options.

- "Do you want to change the server's default backup location"
- If you enter "y/Y" then following text will displayed in terminal to enter StoreGrid Server backup location.
- "Enter the absolute path for StoreGrid Server's backup location"
- Enter the backup location for this server here.

## 11. Enable HTTPS based StoreGrid WebConsole access:

StoreGrid uses the TCP port '6060' for its web console and uses the TCP port '6061' for its https based web console access. StoreGrid supports 'https protocol' to access the StoreGrid webconsole in a secured manner. Hence, if you try to access the StoreGrid webconsole through http://<machine name>:<webconsole port>, then you will be automatically redirected to https://<machine name>:<HTTPS port> url.

**Note:** StoreGrid Web Console access through HTTPS is enabled by default.

## 12. Vembu StoreGrid Web Console Authentication:

StoreGrid's Web Console user interface is browser based; you need to configure a username and password to login to StoreGrid Web Console. Note that you can add additional users, delete users, change password etc. from the Web Console UI after the installation.

## 13. Configure Backup Server Port and UI Communication Port

By default StoreGrid uses the ' Backup Server Port' 32004, for all the client-server communications and the 'UI Communication Port' 32005 for communication between the StoreGrid Web Console and the StoreGrid Application. If you wish StoreGrid to use ports other than the default, you are provided with the following options here :

- "Do you want to change these ports from default value?"
- If you enter "y/Y" then following text will displayed in terminal to enter StoreGrid's Backup Server Port and the UI Communication Port.
- "Please enter a valid port value [numerical whole number] for Backup Server Port".
- Enter the Backup Server Port value here.
- "Please enter a valid port value [Numerical whole number] for UI Communication Port".

- Enter the UI Communication Port value here.

14. This installs the product and completes the installation process. After successful installation, you are provided with an option to start the StoreGrid. After the installation, you can start StoreGrid by executing the script "startStoreGrid.sh" from the directory "<INSTALLATION\_HOME>/Vembu/StoreGrid/".

**Note:**

After successful installation, you can open the StoreGrid Web Console from your browser by typing `http://<Your Machine Name>:6060`. You will have to login to the Web Console using the username and password you provided in the "Vembu StoreGrid Web Console Authentication" step during the installation.