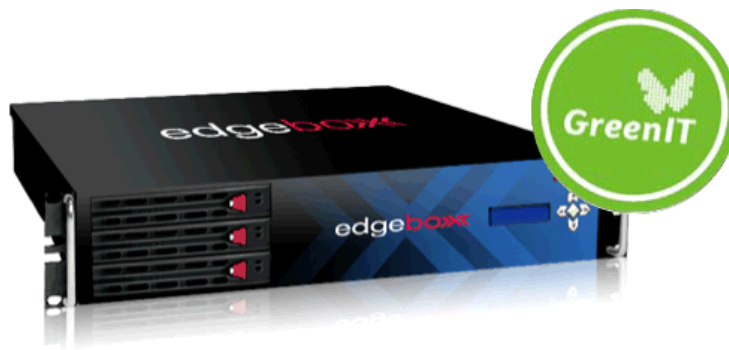


Dramatically simplifying voice and data networking



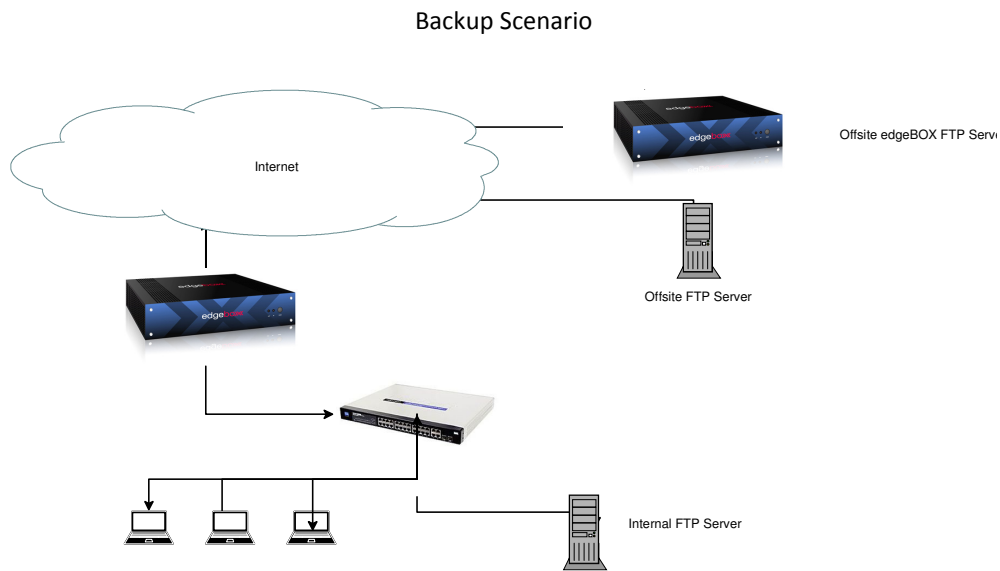
edgeboxx

HOW-TO GUIDE

Backup and Restore



Backup & Restore



edgeBOX can schedule full or incremental backups to occur at a predefined time, day or date.

Backups can be stored on a local or remote FTP server, a local or remote Windows file share, or on a locally connected USB disk directly connected to the edgeBOX. An edgeBOX may not back up its own files to itself, however it is possible to back up one edgeBOX to another remote edgeBOX using FTP.

It is advisable to define a backup policy from the start to prevent inadvertent loss or corruption of valuable data.



Note that during the backup and recovery process, services are stopped and restarted.

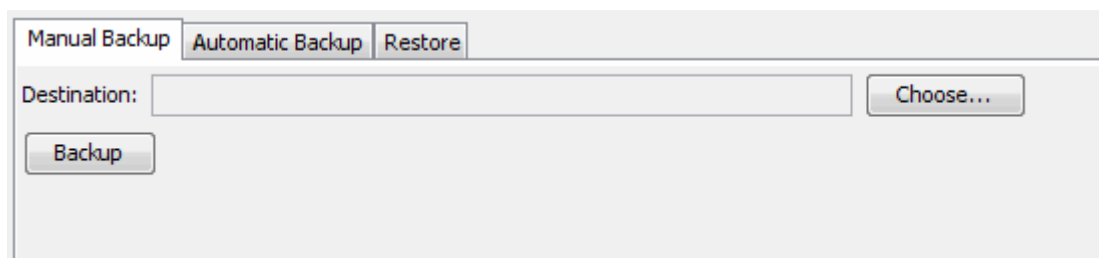
BACKUPS

- Backups may only be created or restored to/from a local USB disk, a local or remote FTP server, or a Windows file share.
- The Backup and Restore processes requires the edgeBOX to stop and start many system and application processes (e.g. VoIP and authentication). It is advisable to schedule backups during times of low system activity.
- Local USB disks cannot be formatted in NTFS format. Supported file system types are FAT, FAT32, ext2, or ext3.
- Recovery is supported from the same version of the operating system to the same version (e.g. v4.6 to v4.6).
- Recovery is supported from the same architecture to the same architecture.
- Multiple edgeBOXes can be backed up to the same directory, since the backup files include a filename prefix that uniquely identifies the edgeBOX being backed up.
- Both Full and Incremental backups are supported.

Next, we will describe how to configure backups and how to perform a restore from a backup.

Manual Backup

Manual Backup allows you to perform an immediate full backup.

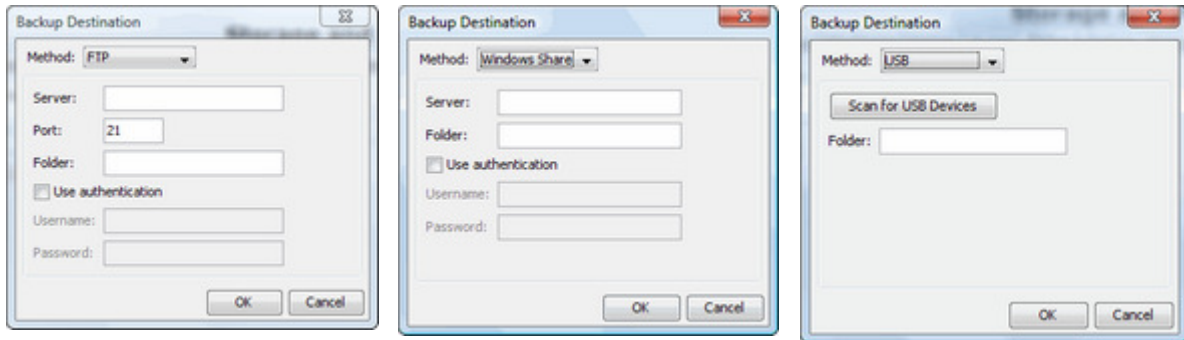


The screenshot shows a web-based configuration window titled "Manual Backup". It has three tabs: "Manual Backup" (selected), "Automatic Backup", and "Restore". Below the tabs is a "Destination:" label followed by a text input field and a "Choose..." button. Below the input field is a "Backup" button.

To back up your edgeBOX immediately, select the Choose button. Backup destinations include "FTP", "Windows Share" and "USB." Backing up the edgeBOX to itself is not possible.

Once all the relevant fields have been entered, press OK to save the configuration and then click the Backup button to start the backup. **Note that during the backup and recovery process, services are stopped and restarted.**

The options are:



Method: FTP allows you to select an internal or offsite FTP server which will store the backup files.

Method: Windows Share allows you to select an internal or offsite Windows share on a Windows server which will store the backup files.

Method: USB allows you to select a local USB disk (not NTFS formatted) which will store the backup files.

Server: IP address of the internal or offsite FTP server

Server: IP address of the internal or offsite Windows server

Scan for USB Devices: This will scan the locally attached USB devices and presents you with a drop down list where you can select the destination backup device.

Port: FTP port (typically port 21)

Device: The chosen device (you may have more than one USB attached disk) on which the backups will be stored.

Folder: Specify the folder on the FTP server where the backups will be stored.

Folder: Specify the folder on the Windows Share where the backups will be stored.

Partition: If the device has more than one partition, you can select which partition you will use to store the backup files.

Use Authentication: Select if the FTP server requires a username and password.

Use Authentication: Select if a username and password is required.

Folder: Specify the folder to which the backups will be stored.

Username: The authentication username as defined on the FTP server.

Username: The authentication username as defined on the Windows file server.

Password: The account password as defined on the FTP server.

Password: The account password as defined on the Windows file server.


Automatic Backup

This panel allows you to specify an automated backup schedule for full and incremental backups.

The screenshot shows the 'Automatic Backup' configuration panel. At the top, there are three tabs: 'Manual Backup', 'Automatic Backup' (which is selected), and 'Restore'. Below the tabs, there is a 'Destination' field containing the text 'ftp://critical:*****@192.168.0.200:21/backup' and a 'Choose...' button. Underneath, there are two sections: 'Full Backup' and 'Incremental Backup'. The 'Full Backup' section has a 'Scheduling' dropdown menu set to 'Every sunday at 4:00 am'. The 'Incremental Backup' section has a 'Scheduling' dropdown menu set to 'Every day at 4:00 am'.

Select the Scheduling drop-down to choose from a pre-defined backup schedule. To create your own schedule, choose Other and enter the schedule of your choice.

This screenshot shows the 'Automatic Backup' configuration panel with custom scheduling options. The 'Destination' field and 'Choose...' button are the same as in the previous screenshot. In the 'Full Backup' section, the 'Scheduling' dropdown is set to 'Other'. Below it, the 'Recurrence' section has three radio buttons: 'Daily' (which is selected), 'Weekly', and 'Monthly'. To the right of the 'Daily' radio button, there is a time specification 'At 00 H 00 m'. The 'Incremental Backup' section also has its 'Scheduling' dropdown set to 'Other', and its 'Recurrence' section has the 'Daily' radio button selected with the same 'At 00 H 00 m' time specification.


 If you select a date such as the 31st and the month has less than 31 days, the backup will not take place. If the folder of the FTP server or disk that is specified to store the backup does not exist, the backup will fail. The edgeBOX will not automatically create the folder.

Full Backup

A full backup will store all edgeBOX configurations and user data.

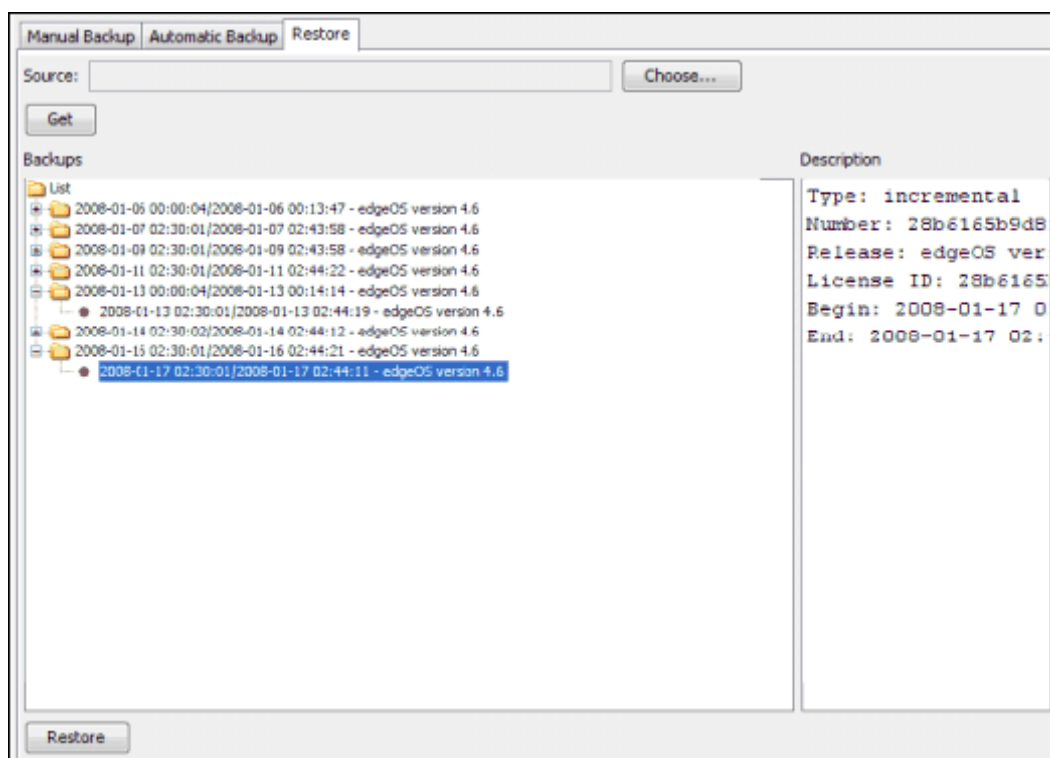
Incremental Backup

An incremental backup will store only the files which have been modified since the last Full or Incremental backup.

 Full and Incremental backups should not be scheduled to occur at the same day and time. Typically, you would schedule a full backup for say, Sunday 04:00 and incremental backups at 04:00 Mon-Sat.

Restore

All backups taken are individually listed under the Restore panel:



Press the "Choose" button to select the device where the files are stored and enter the appropriate details (directory, username etc, as required). Then press the "Get" button, which should show all (Incremental and Full) backups.


If you select an incremental backup, the system will restore this backup and all appropriate incremental backups and the full backup.

For example, if you have the following backup scheme:

Sun=Full

Mon-Sat=Incremental

and you restore the Wednesday Incremental, it will also restore the Tues and Mon Incremental and the Sun Full backup.

 During the restore process, edgeBOX will shut down services (i.e. calls will not be able to be made) and will reboot at the end of the restore process.

A Restore is only supported when applied to the same version of edgeBOX that was backed up.

That is:

Backup edgeBOX V4.6, restore to V4.6 - Supported

Backup edgeBOX V4.5, restore to V4.6 - Not Supported