Backup and Restore

User Guide

Schmooze®

Chapters

Overview

It is critical that you have a backup procedure in place. Schmooze Com, Inc. offers a support package that includes automated offsite backups.

This module is used to backup your PBXact phone system settings and configurations. If you have a support contract that includes offsite backups, the backup will be defined here. Please do not remove, edit the backup marked "Schmooze POMPs", or your backups will no longer be sent to us for offsite storage.

Backing up your PBX is a crucial step in the setup process. You have several ways to automate this process or you can do an "on the fly" backup as needed. If you are running in the Warm Standbye mode with 2 PBX systems please see the user guide for Setting up Warm Spare Backups.

Backup and Restore
User Guide

Logging in

Logging into the Backup and Restore module and you will see a screen like this.
On the right side you will see a list of all the different sections of the backup module on the top. At the bottom of the list will be all the current backup jobs you have created.

Backups- The backups section of the backup module is where you actually define a backup job. You can create as many backup jobs as you want and set when and how often they should run, what should be included in the backup and where to store it.

Restore- The restore section of the backup module is where you pick to restore from a backup. You can restore from a backup on your local computer or from any defined FTP, SSH or Local storage server.

Servers- The servers section is where we define any PBX servers or database tables that we want to backup configurations from. You also define and Linux boxes or FTP servers you want to store the backups on.

Templates- Templates are used to create groups of files, directories or databases that you want included in a backup. We have defined some standard templates for you already but you can add your own custom templates at anytime. When creating a backup job you can drag one or more templates into the backup job to define what is all going to be backed up for that backup job.

Backup

New Backup

Backups
Restore
Servers
Templates

Backup-Now
Default backup

Backups

When clicking on the backup section we can view or create any new backup jobs. For our example we will create a new backup job by pressing the "New Backup" button.

New Backup

- **Backup Settings**
  - **Backup Name**- Give your backup job a name to easily identify it. In our example we will use daily.
  - **Description**- Here you can optionally define a longer description if you want for this backup.

Backup

Backup Name Daily

Description ❓ Daily backup of PBX

- **Backup Items**
  - **Items**- This is where you choose what will actually be backed up. On the right side you will see a list of standard templates that are included with your PBX. The most standard template for a normal daily backup you would want to use is the full backup.

Items

Backup Items ❓   **Templates** ❓

Type Path/DB Exclude Delete

➕

| CDR's |
| Config Backup |
| Full Backup |
| Safe Remote Restore |
| System Audio |
| Voice Mail |
| Warm Standby |

To include the full backup template, use your mouse to drag it from the right side to the left side under the "Backup Items" heading. Your screen will now look like this:

Backup and Restore
User Guide

Items

Backup Items ❓			
Type	**Path/DB**	**Exclude**	**Delete**
Mysql	Config server ▾	table names, one per line	🗑
Asterisk DB		Family, one per line	🗑
Mysql	CDR server ▾	table names, one per line	🗑
Directory	_ASTETCDIR_	PATTERNS, one per line	🗑
Directory	_AMPWEBROOT_	PATTERNS, one per line	🗑
Directory	_AMPBIN_	_ASTVARLIBDIR_/moh _ASTVARLIBDIR_/sounds	🗑
Directory	/etc/dahdi	PATTERNS, one per line	🗑
File	/etc/freepbx.conf		
Directory	/opt/xactview/server/config	PATTERNS, one per line	🗑
Directory	/thftpboot	PATTERNS, one per line	🗑
Directory	/var/cache/aastra	PATTERNS, one per line	🗑
Directory	/etc/wanpipe	PATTERNS, one per line	🗑

Templates ❓

- CDR's
- Config Backup
- Full Backup
- Safe Remote Restore
- System Audio
- Voice Mail
- Warm Standby

With the full backup we are not including any voicemails, custom music on hold or system prompt recordings. If you want these included also, drag over the "System Audio" and "Voicemail Templates" from the ride side to the left side.

Items

Backup Items

Type	Path/DB	Exclude	Delete
Mysql	Config server ▼	table names, one per line	🗑
Asterisk DB		Family, one per line	🗑
Mysql	CDR server ▼	table names, one per line	🗑
Directory	_ASTETCDIR_	PATTERNS, one per line	🗑
Directory	_AMPWEBROOT_	PATTERNS, one per line	🗑
Directory	_AMPBIN_	_ASTVARLIBDIR_/moh _ASTVARLIBDIR_/sounds	🗑
Directory	/etc/dahdi	PATTERNS, one per line	🗑
File	/etc/freepbx.conf		
Directory	/opt/xactview/server/config	PATTERNS, one per line	🗑
Directory	/thftpboot	PATTERNS, one per line	🗑
Directory	/var/cache/aastra	PATTERNS, one per line	🗑
Directory	/etc/wanpipe	PATTERNS, one per line	🗑
Directory	_ASTVARLIBDIR_/moh	PATTERNS, one per line	🗑
Directory	_ASTVARLIBDIR_/sounds/custom	PATTERNS, one per line	🗑
Directory	_ASTVARLIBDIR_/voicemail	PATTERNS, one per line	🗑

Templates

- CDR's
- Config Backup
- Full Backup
- Safe Remote Restore
- System Audio
- Voice Mail
- Warm Standby

TIP- Advanced users can also press the green plus icon to add your own files or directory paths to be included in your backup.

TIP- Please see templates section on how to modify or create your own templates.

- **Hooks**
  Hooks allow you to have the backup job based on the following actions to execute a custom script at the location defined for each action. This is for advanced users who may want to write custom things to happen for any of the following actions: (Make sure your script has execute permissions for the Asterisk user.)

- **Pre-backup Hook**- Hook to run before starting the actual backup.
- **Post-backup Hook**- Hook to run after completing the backup.
- **Pre-restore Hook**- Hook to run before starting the actual restore of the backup.
- **Post-restore Hook**- Hook to run after completing the restore of the backup.

Hooks

Pre-backup Hook ❔
Post-backup Hook ❔
Pre-restore Hook ❔
Post-restore Hook ❔

- **Backup Server**

  - **Backup Server**- This is where we choose which server we want to backup. This can be the local PBX that the backup module is on or it could be another PBX as defined in the servers section of the backup module. Please see the server section for more information on defining other servers. *Most of the time you will pick "This Server" since that is what we want to backup.*

    Backup Server

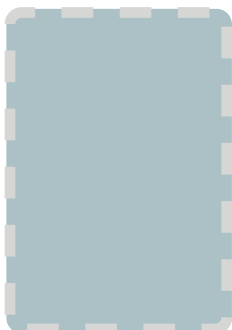   Backup Server ❔ This Server ▾

- **Storage Location**

  - Storage location are servers that have been setup to store the actual backup on. By default we include the local server as a storage location.

  - On the right side we will see a list of servers that have been setup to store the backup as defined in the servers section of the backup module. Please see server section for more information on defining other servers.
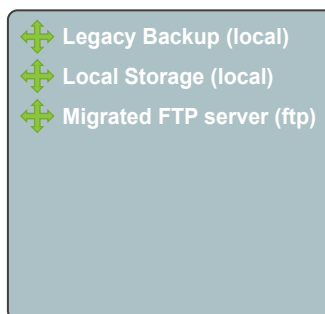
Backup and Restore
User Guide

Storage Locations

Storage Servers ❓

Available Servers

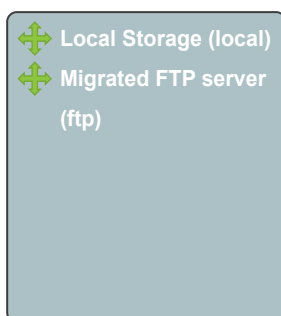✥ **Legacy Backup (local)**
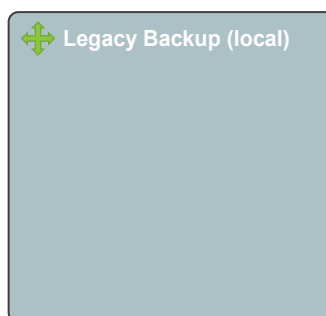✥ **Local Storage (local)**
✥ **Migrated FTP server (ftp)**

• Drag one or more storage servers to the left side to define where to store the backups. In our example we will drag the local server and an FTP server that we setup.

Storage Locations

Storage Servers ❓

Available Servers

✥ **Local Storage (local)**
✥ **Migrated FTP server (ftp)**

✥ **Legacy Backup (local)**

• **Backup Schedule**
   This is where we define when and how often to run the backup. Our options are:

   • **Never**- Never run the backup
   • **Hourly**- Every hour at the top of the hour
   • **Daily**- Every day at midnight
   • **Weekly**- Every Sunday at midnight
   • **Monthly**- This first of each month at midnight
   • **Annually**- January 1st at midnight
   • **Reboot**- On a reboot command of the PBX an upgrade will be run.
   • **Custom**- Allows you to define your own schedule on when to run upgrades.

Backup Schedule

Run❓ `Never ▼`

- **Maintenance**
  Here we can define how many copies of the backup we want to keep and when they should be deleted.

  - **Delete After Time Frame**- Here you can define increments, for example delete after 3 months or 5 weeks.
  - **Delete After Runs**- Here you can define how many copies of the backup to delete versus deleting backups by time frame such as only keep fifteen. On the 16th backup the oldest backup will be deleted from the system. We recommend keeping 7-10 backups only to conserve hard drive space.

  ### Maintenance

  Backup Server❓ `0 ▼` `Minutes ▼`

  Restore Here❓ `8 ▼` runs

- **Save and Run**
  Save your backup settings when you are done creating the backup.

  `Save` `Delete`

  - Once saved you will be presented with a "Run Now" option so you can choose to have the system do a backup immediately.

  `Save` `and Run`

<u>Restores</u>

When clicking on the restore section we can see a list of all the servers that we have setup backups to be stored on and can pick any server to restore the backup from.

> **Legacy Backup (local)**
>
> **Local Storage (local)**
>
> **Migrated FTP server (ftp)**

You can also choose to upload a backup file from your local computer if you have it stored on the computer you are logged into the backup module with.

Restore

Upload a backup file to restore from it. Or, pick a saved backup by selecting a server from the list on the right.

| Choose File | No file chosen | **Go!** |

- **Restoring a Backup File**

  - Once you have chosenwhich server you restore from or uploaded the backup file you want to restore from, you will see this screen, which will give us a list of all backups on the server:

  Restore

  Select a file and click go

  > 📁 MIGRATED_Schmoozecom_POMPs
  >   20121001-041902-1349083142-807103431.tgz
  >   20121002-041901-1349169541-991101585.tgz

  Go! **Download**

  - Click on one of the backup files and you will see information on what is contained in the backup. Press the "Go" button to perform the restore of the backup.

Select a file and click go

📁 MIGRATED_Schmoozecom_POMPs
    20121001-041902-1349083142-807103431.tgz
    20121002-041901-1349169541-991101585.tgz

Name: MIGRATED Schmoozecom-POMPs
Created: Mon Oct 01 2012 04:19:02 GMT-0500 (CDT)
Files: 14
Mysql DB's:1
AstDB's:1

Go! **Download**

If you would like to download the actual backup file to use somewhere else you can press the "Download" button and it will download the backup file. You can then upload that backup to another system to restore the backup on.

Servers

When clicking on the servers section we will see a list of all the servers created and can create new servers. A server can be:

- **Email**- This would be used to send a backup file as an email attachment for storing the backup.
- **FTP**- This would be used to send a backup file to when a backup is created. It also will allow you to restore a backup from the FTP server direct.
- **Local Server**- This is the local PBX that the backup is on. This is where the backups can be restored from and where the backup job will actually perform the backup of the files and configurations.
- **MySQL Server**- This is where we define where the MySQL server is located and how to log into it so we can backup the database.
- **SSH Server**- This could be another PBX that we log into and perform the backup on. For example if you have a warm spare backup box on the warm spare we would setup the backup job to log into the production server and perform the backup on the production server then move the backup file to the backup server and restore it on a night basis.

    You can also define a SSH server for storing backups just like an FTP server, and using SCP to copy the files over to the SSH server. Any Linux box that supports SCP can be an SSH Server.

Backup Servers

New Email server

New FTP server

New Local server

New Mysql server

New SSH server

Backups

Restore

Servers

Templates

CDR server (mysql)

Config server (mysql)

Legacy Backup (local)

Local Storage (local)

Migrated FTP server (ftp)

We have defined a local server and MySQL databases already. You will only need to set new servers if you are doing offsite storage of your backups or setting up a warm spare standby system.

Templates

When clicking on the templates section we will see a list of all the templates that we created and can also create or edit templates.

Templates

New Template

Backups

Restore

Servers

Templates

CDR's

Config Backup

Full Backup

Safe Remote Restore

System Audio

Voice Mail

Warm Standby

Templates that are included at install can not be modified. You can create your own templates but there tipically is no need for this unless you need to include custom files, directories or databases (and you want to simplify it to create a template of only custom items that you drag into a backup job versus adding the custom entries right into the backup job as we went over earlier).

When creating a template you will need to give it a name and optionally, a description. In our example we are creating a template called "Custom Files".

Backup Template

Template Name Custom Files

Description ❓ Want to include iptables rules

Clicking the green plus button will allow you to pick which file, directory or database to be included.

Type Path/DB Exclude Delete

➕

We will pick the directory from the drop down for our example of choosing to include our iptable settings. Under ath we will put the path of /etc/iptables
We will leave the exclude empty but you could exclude a file within this directory if you want to by defining the file such as /etc/iptables/abc.conf to exclude the abc.conf file form the backup.

Type	Path/DB	Exclude	Delete
Directory	/etc/iptables	PATTERNS, one per line	🗑

Make sure to press "Save" when done. To add more entries into the template press the green plus icon.

Schmooze®

Schmooze Com Inc.

(920) 886-8130

http://schmoozecom.com