gs.group.messages.add.smtp2gs Documentation

Release 3.0.5

GroupServer.org

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This product allows email messages, coming in on SMTP, to be added to a GroupServer group.

Contents:

CHAPTER 1

smtp2gs

1.1 Synopsis

smtp2gs [*-h*] [*-m* <MAXSIZE>] [*-l* <LISTID>] [*-f* <FILE>] [*-t* {server,message}] [*-c* <CONFIG>] [*-i* <INSTANCE>] *url*

1.2 Description

smtp2gs to adds an email message to a GroupServer group. It is usually called by an SMTP server (such as **postfix**).

1.3 Positional Arguments

url
The URL for the GroupServer site.

1.4 Optional Arguments

-h, --help
Show a help message and exit

-m <MAXSIZE>, **--max-size** <MAXSIZE>
The maximum size of the post that will be accepted, in mebibytes (default 200MiB).

-l <LISTID>, **--list** <LISTID>
The list to send the message to. By default it is extracted from the *x-original-to* header.

-f <FILE>, **--file** <FILE>
The name of the file that contains the message. If omitted (or -) standard-input will be read.

-t {server,message}, **--time-source** {server,message}
Where to get the time that the message was written. Using `server` (the default) avoids issues caused by the clocks of the group members being incorrect. Using `message` will extract the post-time from the *Date* header.

-c <CONFIG>, **--config** <CONFIG>
The name of the GroupServer Configuration file (default *INSTANCE_HOME*/etc/gsconfig.ini) that contains the token that will be used to authenticate the script when it tries to add the email to the site.

-i <INSTANCE>, **--instance** <INSTANCE>
The identifier of the GroupServer instance configuration to use (default `default`).

1.5 Returns

smtp2gs returns `0` on success, or a non-zero value on an error (following the convention specified in `/usr/include/sysexits.h`). In addition the error message that is written to `stderr` starts with the enhanced mail system status code **RFC 3463**. These include *transient errors* and *permanent errors*.

1.5.1 Transient Errors

Any errors that can be solved by changing the configuration (either of **postfix** or the Configuration file) are marked as *transient* (with a `4.x.x` status code).

Code	Note	Fix
4.3.5	Error with the configuration file.	Correct the Configuration file.
4.4.4	Error connecting to URL.	Check that the server is running, or alter the URL that is used to call **smtp2gs**.
4.4.5	The system is too busy.	Wait.
4.5.0	Could not decode the data returned by the server.	*Usually* this is caused by an invalid token in the Configuration file. Fix the token in the file.
4.5.2	No host in the URL.	Alter the URL that is used in the call to **smtp2gs** so it has a host-name.

1.5.2 Permanent Errors

The five *permanent* errors are listed below.

Code	Note
5.1.1	There is no such group to send the message to.
5.1.3	No *x-original-to* header in the email message.
5.3.0	The file containing the email was empty.
5.3.4	Email message too large.
5.5.0	Error communicating with the server (either while looking up the group information or adding the message).

1.6 Examples

Adding a post to a group in the general case, where the email is read of standard input:

```
$ smtp2gs http://groups.example.com
```

Over-riding the *x-original-to* header. This allows posts to an old email address to be sent to a new group.

```
$ smtp2gs --list newGroupId http://groups.example.com
```

Testing, by reading a file from `/tmp`

```
$ smtp2gs --file /tmp/test.mbox http://groups.example.com
```

Setting the maximum size of messages posted to a group to 1MiB

```
$ smtp2gs --max-size 1 http://groups.example.com
```

Using the time-stamp in the message, rather than the current time on the server.

```
$ smtp2gs --time-source message http://groups.example.com
```

Using the token for a specific GroupServer instance called `production`

```
$ smtp2gs --instance production http://groups.example.com
```

CHAPTER 2

Configuration file

The configuration for the `smtp2gs` script is handled by the `gs.config` module [3]. It is entirely concerned with token authentication [2]. To authenticate script needs to pass a token to the web pages that are used to add a post [1]. The pages compare the token that was passed in to one that is stored in the database. If they match the script is allowed to post.

2.1 Examples

Below is the configuration of the token for the GroupServer instance `default`:

```
[webservice-default]
token = theValueOfTheToken
```

A more complex system, which has separate `testing` and `production` environments:

```
[config-testing]
webservice = testing

[config-production]
webservice = production

[webservice-testing]
token = theValueOfTheTokenForTesting

[webservice-production]
token = theValueOfTheTokenForProduction
```

The token-configuration for two separate sites (accessed through different URLs) that are supported by the same database:

```
[config-firstSite]
webservice = default

[config-secondSite]
webservice = default

[webservice-default]
token = theValueOfTheDefaultToken
```

[3] See `gs.config` <https://github.com/groupserver/gs.config>
[2] See `gs.auth.token` <https://github.com/groupserver/gs.auth.token>
[1] See `gs.group.messages.add.base` <https://github.com/groupserver/gs.group.messages.add.base>

CHAPTER 3

gs.group.messages.add.smtp2gs Internals

The gs.group.messages.add.smtp2gs does not have a public API, other than what is provided by the script itself. However, the internals are documented below.

3.1 The script

The smtp2gs script is provided by the module script. The main() function takes the name of the default configuration file a single argument, which is normally supplied by buildout when it generates the smtp2gs script from the entry point.

The script parses the command-line arguments, and calls two further functions:

servercomms.get_group_info_from_address(): This calls the page /gs-group-messages-add-group-exists.html to check if the group exists, and to get some information about the group.

servercomms.add_post(): This calls the page /gs-group-messages-add-email.html to actually add the post.

Both pages are provided by the gs.group.messages.add.base product [1]; the data is sent by the gs.form.post_multipart function [2], with gs.auth.token [3] providing authentication (see Configuration file).

3.2 Exit values

3.3 XVERP

3.4 Locking

3.5 Server communications

[1] See gs.group.messages.add.base <https://github.com/groupserver/gs.group.messages.add.base>
[2] See gs.form <https://github.com/groupserver/gs.form>
[3] See gs.auth.token <https://github.com/groupserver/gs.auth.token>

CHAPTER 4

Changelog

4.1 3.0.5 (2015-12-11)

- Fixing two unit tests

4.2 3.0.4 (2015-08-17)

- Updating to the `man` page and product metadata

4.3 3.0.3 (2015-05-12)

- Fixing the `man` page documentation

4.4 3.0.2 (2015-03-31)

- Avoiding the relay code if the list-identifier is specified, thanks to Piers
- Adding more unit tests

4.5 3.0.1 (2015-03-18)

- Dropping gs.profile.email.relay from the product dependencies: it does rely on it, but for the page rather than for the code

4.6 3.0.0 (2015-03-17)

- Relaying on email messages to group members, closing Feature 4106

4.7 2.1.3 (2015-02-12)

- Adding the documentation to *Read the Docs*

4.8 2.1.2 (2014-10-24)

- Switching to GitHub as the primary code repository, naming the reStructuredText files as such.

4.9 2.1.1 (2014-06-18)

- Fixing a race-condition, with thanks to Iris.

4.10 2.1.0 (2014-05-05)

- Added Python 3 support.
- Added unit tests.
- Handle the absence of an `x-original-to` header if the list identifier is provided.

4.11 2.0.2 (2014-04-09)

- Fixing an error with the arguments to the script.

4.12 2.0.1 (2014-02-06)

- Switching to Unicode literals.

4.13 2.0.0 (2013-08-27)

- Added SSL handling, thanks to Tom.
- Updating the product metadata.

4.14 1.0.1 (2012-11-30)

- PEP-8 and Python 2.6 cleanup

4.15 1.0.0 (2012-08-01)

- Initial version, based on a script in `XWFMailingListManager`.

CHAPTER 5

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