
glusterfs-volume-plugin Documentation

Release v0.2.1

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Jul 20, 2018

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CHAPTER 1

Introduction

Installation & Configuration

- *Docker managed plugin*
 - *Install the plugin*
 - *Configure the plugin*
 - *Activate the plugin*
- *Legacy plugin*
 - *Install the legacy plugin*
 - *Configure the legacy plugin*
 - *Activate the legacy plugin*

You can either use glusterfs-volume-plugin as a **docker engine managed plugin** or a legacy plugin.

In short, plugins managed by the docker engine are special containers which are started before any containers are started. They are managed via the **docker plugin command**.

Important: It is strongly recommended to use the docker managed plugin.

Legacy plugins are processes which need to be managed by the system administrator.

2.1 Docker managed plugin

Note: The docker managed plugins are available as of docker 1.13

2.1.1 Install the plugin

The installation is pretty straightforward.

```
$ docker plugin install mwmahlberg/glusterfs-volume-plugin
Plugin "mwmahlberg/glusterfs-volume-plugin" is requesting the following
↳ privileges:
  - network: [host]
  - mount: [/etc/resolv.conf]
  - device: [/dev/fuse]
  - capabilities: [CAP_SYS_ADMIN]
Do you grant the above permissions? [y/N]
```

Press `y` and `<Enter>`.

```
Trying to pull repository docker.io/mwmahlberg/glusterfs-volume-plugin ...
latest: Pulling from docker.io/mwmahlberg/glusterfs-volume-plugin
28d15fbb676f: Download complete
Digest:
↳ sha256:386ce0d6b514a74e10a8f891f5dca8d247a46b150909b25c95ba6e330d034b18
Status: Downloaded newer image for docker.io/mwmahlberg/glusterfs-volume-
↳ plugin:latest
Installed plugin mwmahlberg/glusterfs-volume-plugin
```

Note: The sha256 hashes you may see can vary, depending on the current version of the plugin.

Now that the plugin is installed, we should *configure* it.

2.1.2 Configure the plugin

Name	default value	meaning
GFSP_HOSTS	127.0.0.1	Comma separated list of trusted pool members to connect to
GFSP_DEBUG	false	Log debug information

```
$ docker plugin set mwmahlberg/glusterfs-volume-plugin GFSP_HOSTS="192.168.0.2,my-
↳ glusterd-host"
```

2.1.3 Activate the plugin

```
$ docker plugin enable mwmahlberg/glusterfs-volume-plugin
```

2.2 Legacy plugin

Note: Installation instructions are only provided for systemd-based GNU/Linux systems. Please feel free to open a pull request if you can provide instructions for upstart / SYSV / openrc systems.

2.2.1 Install the legacy plugin

```
$ cd /tmp
$ curl -L https://bitbucket.org/mwmahlberg/glusterfs-volume-plugin/downloads/
→glusterfs-volume-plugin-master.tar.gz | tar -xvzf -
$ intall -m 0640 contrib/systemd/* /etc/systemd/system/
$ install -m 0750 -o root -g root glusterfs-volume-plugin /usr/local/sbin/
$ systemctl daemon-reload
```

2.2.2 Configure the legacy plugin

Create an `override.conf` for the `glusterfs-volume-plugin.service`:

```
$ systemctl edit glusterfs-volume-plugin.service
```

And editor will open. Please edit the contents according to the example below and save.

```
[Service]
Environment=GFSP_HOSTS="your-first-glusterd,your-second-glusterd"
```

Now we can activate the legacy plugin.

2.2.3 Activate the legacy plugin

```
$ systemctl enable glusterfs-volume-plugin.service
$ systemctl enable glusterfs-volume-plugin.socket
$ systemctl start glusterfs-volume-plugin.socket
$ systemctl restart docker
```


CHAPTER 3

Using the glusterfs-volume-plugin

CHAPTER 4

Try it out!

If you want to *test it* the plugin: A [Vagrantfile](#) is provided.

```
$ curl TODO
$ vagrant up
[...]
$ vagrant ssh node
```

Now that you have a test environment, you can continue to *configure the glusterfs-volume-plugin*.

CHAPTER 5

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```
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Version 2.0, January 2004
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```

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CHAPTER 6

foo

CHAPTER 7

bar

CHAPTER 8

Indices and tables

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- `search`

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