

diet-fmd

—

utility daemon for file system management

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Version 1.1

Abstract

diet-fmd can manage a file system on a machine. This command takes in argument **the name of the machine** where the file system will be manage, a **user-table** and a **grp-table** declaring the mapping rules for the users and the groups, but also a **configuration file**, and a **temporary directory** for temporary files.

1 Synopsis

diet-fmd [**-config** *diet_config_file*] [**-host** *machine*] [**-user-table** *user_table_file*]
[**-grp-table** *grp_table_file*] [**-tmp-dir** *temporary_directory*]

2 Description

diet-fmd uses the configuration file *diet_config_file* defined with the **-config** option to be able for a client program to interact with the local file system. If the **-config** option is not set, *diet-fmd* will use the configuration file defined by **dietconfig** in */etc/DIET/diet-fmd.cfg* (which is the default location of the file). If this file does not exist, the *diet_config_file* could also be defined with the **DFMS_DIET_CONFIG** environment variable.

The *host* is by default the system hostname. This can be override by the **-host** option on the command line. If the **-host** option is not set, *diet-fmd* will use the *host* name defined by **hostname** option in */etc/DIET/diet-fmd.cfg* (which is the default location of the file). If this file does not exist, the host name could also be defined with the **DFMS_HOST_NAME** environment variable.

diet-fmd uses the *user_table_file* to map the input users to the local users. If the **-user-table** option is not set, *diet-fmd* will use the *user-table* value defined by the **usertable** option in */etc/DIET/diet-fmd.cfg* (which is the default

location of the file). If this file does not exist, the *user-table* could also be defined with the `DFMS_USER_TABLE` environment variable.

diet-fmd uses the *grp-table_file* to map the input groups to the local groups. If the **-grp-table** option is not set, *diet-fmd* will use the *grp-table* value defined by the **grouptable** option in `/etc/DIET/diet-fmd.cfg` (which is the default location of the file). If this file does not exist, the *grp-table* could also be defined with the `DFMS_GRP_TABLE` environment variable.

diet-fmd uses the *temporary_directory* to store temporarily files when they are transferred. If the **-batch** option is not set, *diet-fmd* will use the *tmp-dir* value defined by the **tmpdirectory** option in `/etc/DIET/diet-fmd.cfg` (which is the default location of the file). If this file does not exist, the *temporary_directory* could also be defined with the `DFMS_BATCH_NAME` environment variable.

[**-config** *diet_config_file*] Configuration file used by *diet-fmd* to be able for a client to interact with the file system of *machine*.

-host *machine* Name of the machine where the file system is located.

-tmp-dir *temporary_directory* Path to a temporary directory.

-user-table *user_table_file* File defining how to map input users to local users.

-grp-table *grp_table_file* File defining how to map input groups to local groups.

-h|**-help** Some help about *diet-fmd*.

3 Files and variables

3.1 Files

`/etc/DIET/diet-fmd.cfg` Default configuration file for *diet-fmd* that can store daemon configuration options.

`user_table_file` The user-table file

`grp_table_file` The grp-table file

3.1.1 diet-fmd.cfg configuration file

The `diet-fmd.cfg` file can store all the options of *diet-fmd* with the following options:

dietconfig path to the DIET configuration file

usertable path to the user-table file

grouptable path to the grp-table file

hostname host name

tmpdirectory temporary directory

It could look like this:

```
dietconfig = /etc/DIET/SeD.cfg
usertable = /etc/DIET/user-table.txt
grouptable = /etc/DIET/group-table.txt
hostname = foo
tmpdirectory = /tmp/bar
```

3.2 Variables

Some variables could be use to simplify the command of the *diet-fmd*:

DFMS_DIET_CONFIG path to the DIET configuration file

DFMS_USER_TABLE path to the user-table file

DFMS_GRP_TABLE path to the grp-table file

DFMS_HOST_NAME host name

DFMS_TMP_DIR temporary directory

4 Example

How to launch the *diet-fmd* daemon with all the options on the command line?

Let's see with the */tmp/bar* temporary directory on the *foo* machine:

```
diet-fmd -config path_to_the_configuration_file -user-table /etc/DIET/user-table.txt -grp-table /etc/DIET/grp-table.txt -host foo -tmp-dir /tmp/bar
```

Now, suppose that we have the a well-defined **diet-fmd.cfg** file defined in the */etc/DIET* directory (or elsewhere from the moment that the compilation has been do we the right path) that looks like to the one described above. We could then directly call the *diet-fmd* program like this:

```
diet-fmd
```

5 See also

diet-fmd(1), *diet-chgrp*(1), *diet-chmod*(1), *diet-cp*(1), *diet-head*(1), *diet-ls*(1), *diet-mkdir*(1), *diet-mv*(1), *diet-rm*(1), *diet-rmdir*(1), *diet-tail*(1), *diet-status*(1), *diet-agent*, *omniNames*.

6 Prerequisites

DIET *diet-fmd* requires a DIET installation with version ≥ 2.3 .

7 Version

Version: 1.1 of February 22, 2010.

8 License et Copyright

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