

diet-bmmd

—

utility daemon for batch system management

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Version 1.1

Abstract

diet-bmmd can manage a batch system on a machine with lots of jobs management capabilities. This command takes in argument **the name of the machine** where the batch system will be manage, the type of **batch system**, a **user-table** and a **grp-table** declaring the mapping rules for the users and the groups, but also a **configuration file**.

1 Synopsis

diet-bmmd [**-config** *diet_config_file*] [**-host** *machine*] [**-user-table** *user_table_file*]
[**-grp-table** *grp_table_file*] [**-batch** *batch_name*]

2 Description

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

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

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

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

diet-bmmd uses the *batch-name* to know how to interact with the underlying batch system. If the `-batch` option is not set, *diet-bmmd* will use the *batch* value defined by the `batch` option in `/etc/DIET/diet-bmmd.cfg` (which is the default location of the file). If this file does not exist, the *batch-name* could also be defined with the `DBMS_BATCH_NAME` environment variable.

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

`-host machine` Name of the machine where the batch system is installed.

`-batch batch-name` Name of the underlying batch system. Could be `loadlevel` or `torque`.

`-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-bmmd*.

3 Files and variables

3.1 Files

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

`user-table-file` The user-table file

`grp-table-file` The grp-table file

3.1.1 diet-bmmd.cfg configuration file

The `diet-bmmd.cfg` file can store all the options of *diet-bmmd* 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

batch batch name

It could look like this:

```
dietconfig = /etc/DIET/SeD.cfg
usertable = /etc/DIET/user-table.txt
grouptable = /etc/DIET/group-table.txt
hostname = foo
batch = torque
```

3.2 Variables

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

DBMS_DIET_CONFIG path to the DIET configuration file

DBMS_USER_TABLE path to the user-table file

DBMS_GRP_TABLE path to the grp-table file

DBMS_HOST_NAME host name

DBMS_BATCH_NAME batch name

4 Example

How to launch the *diet-bmmd* daemon with all the options on the command line? Let's see with the *torque* batch system on the *foo* machine:

```
diet-bmmd -config path_to_the_configuration_file -user-table /etc/DIET/user-table.txt -grp-table /etc/DIET/grp-table.txt -host foo -batch torque
```

Now, suppose that we have the a well-defined *diet-bmmd.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-bmmd* program like this:

```
diet-bmmd
```

5 See also

diet-bmmd(1), *diet-list*(1), *diet-cancel*(1), *diet-submit*(1), *diet-agent*, *omniNames*.

6 Prerequisites

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

7 Version

Version: 1.1 of November 11, 2010.

8 License et Copyright

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