

DeepDive installation guide

Quick installation

We provide a simple installation method for the following supported systems:

- GNU/Linux: Debian (7, 8, or later) and Ubuntu (12.04LTS, 14.04LTS, 16.04LTS, or later)
 - [Docker](#)
 - [VirtualBox](#)
 - [AWS EC2](#)
- macOS with [Homebrew](#)

You can install DeepDive and all its dependencies with a single command.

1. Open your terminal and run this:

```
bash <(curl -fsSL git.io/getdeepdive)
```

2. Select `deepdive` or `deepdive_from_release` when asked. Choose the latter option if you simply want to install DeepDive without any of its runtime dependencies.

```
### DeepDive installer for Mac
1) deepdive                    5) jupyter_notebook
2) deepdive_docker_sandbox     6) postgres
3) deepdive_example_notebook  7) run_deepdive_tests
4) deepdive_from_release       8) spouse_example
# Install what (enter to repeat options, a to see all, q to quit,
or a number)? 1
[...]
```

Here are some more details of each options:

- For installation with the `deepdive` option, **All runtime dependencies are installed**. Note that some steps may ask your password.
- If you don't have permission to install the dependencies, you may want to use the `deepdive_from_release` option and ask the system administrator to install DeepDive's runtime dependencies with the following command.

```
bash <(curl -fsSL git.io/getdeepdive) _deepdive_runtime_deps
```

* For installation with ``deepdive_from_source`` option, extra build dependencies are installed, and DeepDive source tree is cloned at ``./deepdive``, then executables are installed under ``~/local/bin/``.

You can run tests in DeepDive's source tree to make sure everything will run fine.

See the [developer's guide](developer#build-test) for more details.

```
```bash
cd ./deepdive
make test
```
```

1. To use the `deepdive` command on a regular basis, it is recommended to add the following line to your `~/.bash_profile`. Otherwise, you need to always type its full path: `~/local/bin/deepdive`.(在 **Home** 文件夹下, **Ctrl+H** 显示隐藏文件, 在 `.profile` 文件中添加如下一行命令, 重启后生效)

```
export PATH=~/local/bin:$PATH
```

2. Since DeepDive needs a database installation to run correctly. You should use one of the provided installer options:
 - `postgres` DeepDive works with most of the recent versions of PostgreSQL. However, 9.3+ is recommended to use all functionality.
 - `postgres_xl` DeepDive works with current release of PostgreSQL-XL, which is based on PostgreSQL 9.2. PL/Python extension is required.
 - `greenplum` DeepDive works with recent releases of Greenplum, which is based on PostgreSQL 8 that may lack some features that are required by some advanced DeepDive functionality. PL/Python extension is required.
 - `mysql` DeepDive provides minimal support for MySQL and MySQL Cluster, but **PostgreSQL-based databases are strongly recommended.**
3. You can verify whether your installation is correct using the `run_deepdive_tests` option in the installer. It downloads all examples and tests for the DeepDive release and runs the tests using the installed one. To only download the example applications, use the `deepdive_examples_tests` option.

Congratulations! DeepDive is now installed on your system, and you can proceed to the next steps.

Installing from source

Using the quick installation method is recommended unless you want to use a development branch or modify DeepDive engine itself. If you still want to build DeepDive from source code yourself, follow the developer's guide.

Installing PostgreSQL

Deepdive 提供了 `postgres` 的安装选项, 与常规安装相比, `deepdive` 还自动执行了一些设置:

1. 版本: 9.5
2. 函数脚本路径: `/var/lib/postgresql/`
3. 创建了一个数据库的 `superuser`, 为当前用户, 不用密码
4. 设置了 `pg_hba.conf` 配置文件, 路径为 `/etc/postgresql/9.5/main/pg_hba.conf`
5. 重启 `postgresql service`

测试: 在当前用户下, 能正常运行 `createdb` 和 `dropdb`, 以及 `psql` 命令

由于默认情况下, PostgreSQL 不允许 TCP/IP 连接, 需要进行更改:

1. 在 root 权限下, 编辑 `/etc/postgresql/9.5/main/postgresql.conf` 文件, 将

```
#listen_addresses = 'localhost'
```

改为

```
listen_addresses = 'localhost' 或 listen_addresses = '*'
```

2. 重启服务

```
sudo service postgresql restart
```

3. 切换回当前用户, 测试 TCP/IP 连接

```
psql -h 127.0.0.1 -p 5432 -U postgres
```

如能进入 `psql` 界面, 说明连接成功

Installing pgAdmin III

安装 `sudo apt-get install pgadmin3`

然后点击搜索, 输入 `pgadmin`, 运行搜索到的该 application

程序运行后, 可连接至目标数据库, 通过可视化的界面来查看该数据库