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# dugaire Documentation

*Release stable*

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Quickly build custom Docker images for local development without having to write Dockerfiles.

```
# Build an image with vim and curl using apt-get
docker run -it --rm $(dugaire build --apt=vim,curl)

# Build an image with wget, and nano using apt-get and install latest azure-cli version.
↪ using pip3.
docker run -it --rm $(dugaire build --apt=wget,nano --pip3=azure-cli)

# Build an image with latest kubectl version
docker run -it --rm $(dugaire build --with-kubectl=latest)

# Build an image with kubectl 1.15.0
docker run -it --rm $(dugaire build --with-kubectl=1.15.0)
```



## INSTALL (ON LINUX)

### 1.1 Using pip (recommended)

```
pip install dugaire
```

### 1.2 From source

Clone this repository.

```
git clone https://github.com/tadeugr/dugaire.git
```

cd to its directory.

```
cd dugaire
```

Install it (requires pip).

```
make install
```

You should have the command available.

```
dugaire build --help
```





## USAGE

```
Usage: dugaire [OPTIONS] COMMAND [ARGS]...

CLI tool to build and manage custom Docker images.

Options:
  --version  Show the version and exit.
  --help     Show this message and exit.

Commands:
  build  Build Docker images with custom packages.
  list   List images built with dugaire.
  rmi    Remove images built with dugaire.
  version Show the version and exit.
```

### 2.1 dugaire build

```
Usage: dugaire build [OPTIONS]

Build Docker images with custom packages.

Examples:

Build an image and install vim and curl using apt-get.

$ dugaire build --apt=vim,curl

Build an image and install python3 using apt-get and ansible using pip3.

$ dugaire build --apt=python3-pip --pip3=ansible

Build an image and install the latest version of kubect1.

$ dugaire build --with-kubect1=latest

Options:
  --from <name:tag>      Base image (used in Dockerfile FROM).
                        Example: --from=ubuntu:20.04 [default:
                        ubuntu:20.04; required]
```

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```

--name <name:tag>           Image name. Example: --name="myimage:0.0.1"
                             [default: random]
--apt <pkg01|pkg01,pkg02>    Comma separated list of packages (no blank
                             space) to install using apt-get install.
                             Requires a base image with apt-get. Example:
                             -apt=curl,vim
--pip3 <pkg01|pkg01,pkg02>   Comma separated list of packages (no blank
                             space) to install using pip3 install.
                             WARNING: requires -apt=python3-pip. Example:
                             -apt=python3-pip -pip3=ansible,jinja2
--with-kubectrl <latest|semantic versioning>
                             Install kubectrl. Examples: --with-
                             kubectrl=latest / --with-kubectrl=1.17.0
--with-terraform <latest|semantic versioning>
                             Install terraform. Examples: --with-
                             terraform=latest / --with-terraform=0.15.5
--with-velero <latest|semantic versioning>
                             Install velero. Examples: --with-
                             velero=latest / --with-velero=1.5.2
--force                     Ignore Docker cache and build from scratch.
--dry-run                   Do not build image.
-o, --output [image.id|image.id.short|image.name|dockerfile]
                             Command output options. [default:
                             image.id.short]
--help                     Show this message and exit.

```

## ENABLE AUTOCOMPLETE

To enable autocomplete for your current terminal session, run:

```
eval "$(_DUGAIRE_COMPLETE=source dugaire)"
```

Follow the instructions below to permanently enable autocomplete.

### 3.1 bash

```
echo 'eval "$(_DUGAIRE_COMPLETE=source dugaire)"' >> ~/.bashrc
```

### 3.2 zsh

```
echo 'eval "$(_DUGAIRE_COMPLETE=source dugaire)"' >> ~/.zshrc
```



## SUPPORTED FEATURES

### 4.1 Base images

Tested with:

- `ubuntu:20.04`

You may use base images that were built from the tested images.

### 4.2 Package/Dependency managers

#### 4.2.1 apt-get

You can install any package using `apt`

Use a comma separated list (no blank space) of packages you want to install.

Example:

```
dugaire build --apt=wget,iputils-ping
```

#### 4.2.2 pip3

You can install any package using `pip3`

Use a comma separated list (no blank space) of packages you want to install.

Use `<package name>==<version>` to install specific versions.

Example:

```
dugaire build --pip3=jinja2,azure-cli==2.39.0
```

## 4.3 Applications

### 4.3.1 kubectl

#### Options

`--with-kubectl=latest` to install the latest version.

`--with-kubectl=1.17.0` (*example*) to install specific versions.

See all versions available [here](#).

#### Covered by automated tests

You may install any version available. The commands bellow only describes versions included in the automated tests.

```
dugaire build --from=ubuntu:20.04 --with-kubectl=latest
dugaire build --from=ubuntu:20.04 --with-kubectl=1.18.0
dugaire build --from=ubuntu:20.04 --with-kubectl=1.17.0
dugaire build --from=ubuntu:18.04 --with-kubectl=1.16.0
dugaire build --from=ubuntu:18.04 --with-kubectl=1.15.0
```

### 4.3.2 terraform

#### Options

`--with-terraform=latest` to install the latest version.

`--with-terraform=0.15.05` (*example*) to install specific versions.

See all versions available [here](#).

#### Covered by automated tests

You may install any version available. The commands bellow only describes versions included in the automated tests.

```
dugaire build --from=ubuntu:20.04 --with-terraform=latest
dugaire build --from=ubuntu:20.04 --with-terraform=0.15.05
```

### 4.3.3 velero

#### Options

`--with-velero=latest` to install the latest version.

`--with-velero=1.5.2` (*example*) to install specific versions.

See all versions available [here](#).

### **Covered by automated tests**

You may install any version available. The commands bellow only describes versions included in the automated tests.

```
dugaire build --from=ubuntu:20.04 --with-kubectrl=latest --with-velero=latest  
dugaire build --from=ubuntu:20.04 --with-kubectrl=1.17.0 --with-velero=1.5.2
```





## LICENSE

### 5.1 Product license

Apache License Version 2.0, January 2004. [Read more.](#)

### 5.2 FOSSA scan overview

### 5.3 FOSSA Live Project report

The report is available [here](#)