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# **Summit Scheduler Developer Documentation**

***Release 1.x***

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# INSTALLING SUMMIT

Before you start hacking on summit, you need to first setup your environment. We're going to set it up without breaking anything else in your current.

## 1.1 Requirements

To get started, you'll need:

- Python 2.6 (greater than 2.6.1)
- virtualenv

### 1.1.1 virtualenv

`virtualenv` is a tool to create isolated Python environments. We don't want to install packages system-wide because that can create quite a mess. The following command will install the required development files on Ubuntu or, if you're running a recent version, you can install them automatically:

```
sudo apt-get install python-virtualenv
```

`virtualenv` is the only Python package you need to install system-wide. Everything else goes in a virtual environment.

### 1.1.2 virtualenvwrapper

`virtualenvwrapper` is a set of shell functions that make `virtualenv` easy to work with.

For Ubuntu 11.04 and above, install `virtualenvwrapper` via apt:

```
sudo apt-get install virtualenvwrapper
```

Once installed, `exec bash` and you're set to start!

For earlier releases, install it like this:

```
wget http://bitbucket.org/dhellmann/virtualenvwrapper/raw/f31869779141/virtualenvwrapper_bashrc -O ~/.virtualenvs/virtualenvwrapper_bashrc
mkdir ~/.virtualenvs
```

Then put these lines in your `~/.bashrc`:

```
export WORKON_HOME=$HOME/.virtualenvs
source $HOME/.virtualenvwrapper
```

`exec bash` and you're set.

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**Note:** If you didn't have a `.bashrc` already, you should make a `~/.profile` too:

```
echo 'source $HOME/.bashrc' >> ~/.profile
```

---

## 1.2 Grab the source

Create the bazaar environment for summit with:

```
bzr init-repo summit
cd summit
bzr branch lp:summit trunk
bzr branch trunk myfeaturex
cd myfeaturex
```

From now on, you can simply `cd trunk` && `bzr pull` when you want to update your trunk.

## 1.3 Getting Packages

Now we're ready to go, so create an environment for summit:

```
mkvirtualenv --no-site-packages summit
```

That creates a clean environment named `summit`. You can get out of the environment by restarting your shell or calling `deactivate`.

To get back into the summit environment later, type:

```
workon summit # requires virtualenvwrapper
```

---

**Note:** If you want to use a different Python binary, pass the path to `mkvirtualenv` with `--python`:

```
mkvirtualenv --python=/usr/bin/python2.6 --no-site-packages summit
```

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### 1.3.1 Finish the install

From inside your activated virtualenv, run:

```
pip install -r requirements.txt
```

`pip` installs all the dependencies with the exact revisions as our production environment.

## 1.4 Settings

Most of summit is already configured in `ubuntu_settings.py`, `linaro_settings.py` and `settings.py`, but there's some things you need to configure locally. All your local settings go into `local_settings.py`. Just copy `local_settings.py.sample` to create `local_settings.py` and everything should run fine.

## 1.5 Get themes

Get setup for the themes for Ubuntu and Linaro:

```
./manage.py init-summit
./manage.py pullapps
```

## 1.6 Database

Let Django sync up the database schema for you and run the migrations:

```
./manage.py syncdb
./manage.py migrate
```

## 1.7 Run the Server

If you've gotten the system requirements, downloaded the source code, set up your virtualenv, and configured your settings and database, you're good to go. Summit is now split into two different 'sites,' Ubuntu and Linaro. You will need to call the proper settings for the site you wish to run. To run the server:

```
python manage.py runserver --settings ubuntu_settings
python maange.py runserver --settings linaro_settings
```

## 1.8 Contact

Come talk to us on <irc://irc.freenode.net/#ubuntu-website> if you have questions, issues, or compliments.

## 1.9 Testing

The quick way to run summit's tests:

```
./manage.py test
```

Make sure to write tests for all new code your write and all the tests pass.



# INDICES AND TABLES

- *genindex*
- *modindex*
- *search*