# Scuba

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Local builds made easy, using Docker.

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# **ONE**

### INTRODUCTION

Scuba makes it easier to use Docker containers in everyday development. It is intended to allow a developer to commit an environment setup where the entire build environment is encapsulated in a Docker container.

Its purpose is to lower the barrier to using Docker for everyday builds. Scuba keeps you from having to remember a complex docker run command line, and turns this:

```
$ docker run -it --rm -v $(pwd):/build:z -w /build -u $(id -u):$(id -g) gcc:5.1 make_

→myprogram
```

into this:

\$ scuba make myprogram

Scuba references a .scuba.yml file which is intended to be checked-in to your project's version control, which ensures that all developers are always using the exact correct version of the the Docker build environment for a given commit.

**TWO** 

### INSTALLATION

# 2.1 Install via pip

Scuba is hosted at PyPI, and installation via pip is the perferred method.

To install:

```
$ sudo pip install scuba
```

To install with argcomplete (for *Bash Completion* support):

```
$ sudo pip install scuba[argcomplete]
```

To uninstall:

```
$ sudo pip uninstall scuba
```

#### 2.2 Install from source

Scuba can be built from source on Linux only (due to the fact that scubainit must be compiled):

- 1. Run make to build scubainit
- 2. Run ./run\_unit\_tests.py to run the unit tests
- 3. Run sudo python setup.py install to install scuba
- 4. Run  $./run\_full\_tests.py$  to test the installed version of scuba

If musl-libc is installed, it can be used to reduce the size of scubainit, by overriding the CC environment variable in step 1:

```
CC=/usr/local/musl/bin/musl-gcc make
```

**Note:** Note that installing from source in this manner can lead to an installation with increased startup times for Scbua. See #71 for more details. This can be remedied by forcing a wheel to be installed, as such:

```
export CC=/usr/local/musl/bin/musl-gcc # (optional)
sudo pip install wheel
python setup.py bdist_wheel
sudo pip install dist/scuba-<version>-py3-none-any.whl
```

# **CONFIGURATION**

Configuration is done using a YAML file named .scuba.yml in the root directory of your project. It is expected that .scuba.yml will be checked-in to version control.

An example .scuba.yml file might look like this:

```
image: gcc:5.1

aliases:
  build: make -j4
```

In this example, running scuba build foo would execute make -j4 foo in a gcc:5.1 Docker container.

# 3.1 Scuba YAML File Reference

.scuba.yml is a YAML file which defines project-specific settings, allowing a project to use Scuba as part of manual command-line interaction. As with many other YAML file schemas, most options are controlled by top-level keys.

### 3.1.1 Top-level keys

Key	Scuba Version	Description	Alias
image	(all)	Docker image to run	Can override
environment	2.3.0	Environment variables	Can extend or over- ride
docker_args	2.8.0	Additional arguments to docker run	Can extend or over- ride
volumes	2.9.0	Additional volumes to mount	Can extend or over- ride
aliases	1.1.0	Command/script aliases	
hooks	1.7.0	Hook scripts run during startup	
shell	2.6.0	Override container shell path	Can override
entrypoint	2.4.0	Override container ENTRYPOINT path	Can override

#### image

The image node defines the Docker image from which Scuba containers are created.

Example:

```
image: debian:8.2
```

The image node is usually necessary but, as of scuba 2.5, can be omitted for .scuba.yml files in which only the aliases are intended to be used.

#### environment

The optional environment node (added in v2.3.0) allows environment variables to be specified. This can be either a mapping (dictionary), or a list of KEY=VALUE pairs. If a value is not specified, the value is taken from the external environment.

Examples:

```
environment:
   F00: "This is foo"
   SECRET:
```

```
environment:
```

- FOO=This is foo
- SECRET

#### docker\_args

The optional docker\_args node (added in v2.8.0) allows additional docker arguments to be specified.

Example:

```
docker_args: --privileged -v "/tmp/hello world:/tmp/hello world"
```

The value of docker\_args is parsed as shell command line arguments using shlex.split.

The previous example could be equivalently written in YAML's single-quoted style:

```
docker_args: '--privileged -v "/tmp/hello world:/tmp/hello world"'
```

#### volumes

The optional volumes node (added in v2.9.0) allows additional bind-mounts to be specified. As of v2.13.0, named volumes are also supported.

volumes is a mapping (dictionary) where each key is the container-path. In the simple form, the value is a string, which can be:

- An absolute or relative path which results in a bind-mount.
- A Docker volume name.

Listing 1: Example of simple-form volumes

```
volumes:
  /var/lib/foo: /host/foo # bind-mount: absolute path
  /var/lib/bar: ./bar # bind-mount: path relative to .scuba.yml dir
  /var/log: persist-logs # named volume
```

In the complex form, the value is a mapping with the following supported keys:

- hostpath: An absolute or relative path specifying a host bind-mount.
- name: The name of a named Docker volume.
- options: A comma-separated list of volume options.

hostpath and name are mutually-exclusive and one must be specified.

Listing 2: Example of complex-form volumes

```
volumes:
  /var/lib/foo:
  hostpath: /host/foo  # bind-mount
  options: ro,cached
  /var/log:
    name: persist-logs  # named volume
```

The paths (host or container) used in volume mappings can contain environment variables **which are expanded in the host environment**. For example, this configuration would map the user's /home/username/.config/application1 directory into the container at the same path.

```
volumes:
    $TEST_HOME/.config/application1: $TEST_HOME/.config/application1
```

If a referenced environment variable is not set, Scuba exits with a configuration error.

Volume container paths must be absolute.

Bind-mount host paths can be absolute or relative. If a relative path is used, it is interpreted as relative to the directory in which .scuba.yml is found. To avoid ambiguity with a named volume, relative paths must start with ./ or ../.

Bind-mount host directories which do not already exist are created as the current user before creating the container.

**Note:** Because variable expansion is now applied to all volume paths, if one desires to use a literal \$ character in a path, it must be written as \$\$.

**Note:** Docker named volumes are created with drwxr-xr-x (0755) permissions. If scuba is not run with --root, the scuba user will be unable to write to this directory. As a workaround, one can use a *root hook* to change permissions on the directory.

```
volumes:
   /foo: foo-volume
hooks:
   root: chmod 777 /foo
```

#### aliases

The optional aliases node is a mapping (dictionary) of bash-like aliases, where each key is an alias, and each value is the command that will be run when that alias is specified as the *user command* during scuba invocation. The command is parsed like a shell command-line, and additional user arguments from the command line are appended to the alias arguments. Aliases follow the *common script schema*.

Example:

```
aliases:
build: make -j4
```

In this example, \$ scuba build foo would execute make -j4 foo in the container.

Aliases can also extend/override various top-level keys. See *Alias-level keys*.

#### hooks

The optional hooks node is a mapping (dictionary) of "hook" scripts that run as part of scubainit before running the user command. They use the *common script schema*. The following hooks exist:

- root Runs just before scubainit switches from root to scubauser
- user Runs just before scubainit executes the user command

Example:

```
hooks:
    root:
    script:
        - 'echo "HOOK: This runs before we switch users"'
        - id
    user: 'echo "HOOK: After switching users, uid=$(id -u) gid=$(id -g)"'
```

#### shell

The optional shell node (added in v2.6.0) allows the default shell that Scuba uses in the container (/bin/sh) to be overridden by another shell. This is useful for images that do not have a shell located at /bin/sh.

Example:

```
shell: /busybox/sh
```

### entrypoint

The optional entrypoint node (added in v2.4.0) allows the ENTRYPOINT of the Docker image to be overridden:

```
entrypoint: /another/script
```

The entrypoint can also be set to null, which is useful when an image's entrypoint is not suitable:

```
entrypoint:
```

### 3.1.2 Alias-level keys

Key	Scuba Version	Description
image	1.1.0	Override Docker image to run
environment	2.3.0	Extend / override environment variables
docker_args	2.8.0	Extend / override additional arguments to docker run
volumes	2.9.0	Extend / override additional volumes to mount
shell	2.6.0	Override container shell path
entrypoint	2.4.0	Override container ENTRYPOINT path
root	2.6.0	Run container as root

#### image

Aliases can override the global image, allowing aliases to use different images. Example:

```
image: default_image
aliases:

# This one inherits the default, top-level 'image' and specifies "script" as a string
default:
    script: cat /etc/os-release

# This one specifies a different image to use and specifies "script" as a list
different:
    image: alpine
    script:
    - cat /etc/os-release
```

#### environment

Aliases can add to the top-level environment and override its values using the same syntax:

#### docker\_args

Aliases can extend the top-level docker\_args. The following example will produce the docker arguments --privileged -v /tmp/bar:/tmp/bar when executing the example alias:

```
docker_args: --privileged
aliases:
    example:
    docker_args: -v /tmp/bar:/tmp/bar
    script:
        - ls -l /tmp/
```

Aliases can also opt to override the top-level docker\_args, replacing it with a new value. This is achieved with the !override tag:

```
docker_args: -v /tmp/foo:/tmp/foo
aliases:
    example:
    docker_args: !override -v /tmp/bar:/tmp/bar
    script:
        - ls -l /tmp/
```

The content of the docker\_args key is re-parsed as YAML in order to allow combining the !override tag with other tags; however, this requires quoting the value, since YAML forbids a plain-style scalar from beginning with a ! (see the spec). In the next example, the top-level alias is replaced with an explicit !!null tag, so that no additional arguments are passed to docker when executing the example alias:

```
docker_args: -v /tmp/foo:/tmp/foo
aliases:
    example:
        docker_args: !override '!!null'
        script:
            - ls -l /tmp/
```

#### volumes

Aliases can extend or override the top-level volumes:

```
volumes:
   /var/lib/foo: /host/foo
aliases:
   example:
    volumes:
        /var/lib/foo: /example/foo
        /var/lib/bar: /example/bar
        script:
        - ls -l /var/lib/foo /var/lib/bar
```

#### shell

Aliases can override the shell from the default or the top-level of the .scuba.yml file:

```
aliases:
    my_shell:
    shell: /bin/cool_shell
    script:
    - echo "This is executing in cool_shell"
    busybox_shell:
    script:
    - echo "This is executing in scuba's default shell"
```

#### entrypoint

An alias can override the image-default or top-level .scuba.yml entrypoint, which is most useful when an alias defines a special image.

```
aliases:
  build:
  image: build/image:1.2
  entrypoint:
```

#### root

The optional root node (added in v2.6.0) allows an alias to specify whether its container should be run as root:

```
aliases:
   root_check:
   root: true
   script:
    - echo 'Only root can do this!'
   - echo "I am UID $(id -u)"
   - cat /etc/shadow
```

#### 3.1.3 Common script schema

Several parts of .scuba.yml which define "scripts" use a common schema. The *common script schema* can define a "script" in one of several forms:

The *simple* form is simply a single string value:

```
hooks:
user: echo hello
```

The *complex* form is a mapping, which must contain a script subkey, whose value is either single string value:

```
hooks:
root:
script: echo hello
```

... or a list of strings making up the script:

```
hooks:
    root:
    script:
        - 'echo hello!'
        - touch foo
        - 'echo goodbye :-('
```

Note that in any case, YAML strings do not need to be enclosed in quotes, unless there are "confusing" characters (like a colon). In any case, it is always safer to include quotes.

### 3.1.4 Accessing external YAML content

In addition to normal YAML syntax, an additional constructor, ! from\_yaml, (added in v1.2.0) is available for use in .scuba.yml which allows a value to be retrieved from an external YAML file. It has the following syntax:

```
!from_yaml filename key
```

Arguments:

- filename The path of an external YAML file (relative to .scuba.yaml)
- key A dot-separated locator of the key to retrieve

This is useful for projects where a Docker image in which to build is already specified in another YAML file, for example in .gitlab-ci.yml. This eliminates the redundancy between the configuration files. An example which uses this:

#### Listing 3: .gitlab-ci.yml

```
image: gcc:5.1
```

#### Listing 4: .scuba.yml

```
image: !from_yaml .gitlab-ci.yml image
```

Here's a more elaborate example which defines multiple aliases which correspond to jobs defined by .gitlab-ci.yml:

#### Listing 5: .gitlab-ci.yml

```
build_c:
    image: gcc:5.1
    script:
        - make something
        - make something-else

build_py:
    image: python:3.7
    script:
        - setup.py bdist_wheel
```

Listing 6: .scuba.yml

```
# Note that 'image' is not necessary if only invoking aliases

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```

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```
aliases:
  build_c:
    image: !from_yaml .gitlab-ci.yml build_c.image
    script: !from_yaml .gitlab-ci.yml build_c.script
  build_py:
    image: !from_yaml .gitlab-ci.yml build_py.image
    script: !from_yaml .gitlab-ci.yml build_py.script
```

An easier but less-flexible method is to simply import the entire job's definition. This works becaue Scuba ignores unrecognized keys in an alias:

#### Listing 7: .scuba.yml

```
aliases:
  build_c: !from_yaml .gitlab-ci.yml build_c
  build_py: !from_yaml .gitlab-ci.yml build_py
```

This example which concatenates two jobs from .gitlab-ci.yml into a single alias. This works by flattening the effective script node that results by including two elements that are lists.

#### Listing 8: .gitlab-ci.yml

```
image: gcc:5.1

part1:
    script:
    - make something
part2:
    script:
    - make something-else
```

#### Listing 9: .scuba.yml

```
image: !from_yaml .gitlab-ci.yml image

aliases:
   all_parts:
     script:
     - !from_yaml .gitlab-ci.yml part1.script
     - !from_yaml .gitlab-ci.yml part2.script
```

Dots (.) in a YAML *path* can be escaped using a backslash (which must be doubled inside of quotes). This example shows how to reference job names containing a . character:

#### Listing 10: .gitlab-ci.yml

```
image: gcc:5.1

.part1:
    script:
    - make something
.part2:
    script:
```

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```
- make something-else
```

#### Listing 11: .scuba.yml

```
image: !from_yaml .gitlab-ci.yml image

aliases:
  build_part1: !from_yaml .gitlab-ci.yml "\\.part1.script"
  build_part2: !from_yaml .gitlab-ci.yml "\\.part2.script"
```

Additional examples can be found in the example directory.

### **FOUR**

### **COMMAND-LINE INTERFACE**

```
scuba [-h]

[-d DOCKER_ARG] [-e ENV_VAR] [--entrypoint ENTRYPOINT]

[--image IMAGE] [--shell SHELL] [-n] [-r] [-v] [-V]

COMMAND... | ALIAS...
```

#### **Positional Arguments:**

#### **COMMAND**

The command (and arguments) to run in the container

#### **ALIAS**

Alternatively, an alias to run

#### **Options:**

**-h, --help** Show help message and exit

**-d DOCKER\_ARG, --docker-arg DOCKER\_ARG** Pass additional arguments to docker run. These are appended to any *docker\_args* from .scuba.yml.

DOCKER\_ARG is the full argument to docker run. Note: The - in the DOCKER\_ARG can confuse scuba's argument parsing. The solution is to use an equal sign: -d='--cpus=2'

This argument can be given multiple times.

**-e ENV\_VAR, --env ENV\_VAR** Environment variables to pass to docker. These are merged with (and override) any *environment* variables from .scuba.yml.

ENV VAR is given as KEY=value.

This argument can be given multiple times.

--entrypoint ENTRYPOINT Override the default ENTRYPOINT of the image

--image IMAGE Override Docker image specified in .scuba.yml

--shell SHELL Override shell used in Docker container

-n, --dry-run Don't actually invoke docker; just print the docker cmdline

**-r, --root** Run container as root

-v, --version Show scuba version and exit

**-V, --verbose** Be verbose

**FIVE** 

# **BASH COMPLETION**

Scuba supports command-line completion using the argcomplete package. Per the argcomplete README, command-line completion can be activated by:

- Running eval "\$(register-python-argcomplete scuba)" manually to enable completion *in the current* shell instance
- Adding eval "\$(register-python-argcomplete scuba)" to ~/.bash\_completion
- Running activate-global-python-argcomplete --user to install the script ~/.bash\_completion.d/ python-argcomplete.

**Note:** The generated file must be sourced, which is *not* the default behavior. Adding the following code block to ~/.bash\_completion is one possible solution:

```
for bcfile in ~/.bash_completion.d/*; do
   [ -f "$bcfile" ] && . "$bcfile"
done
```

• Running activate-global-python-argcomplete as root (or sudo) to use argcomplete for all users

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# **ENVIRONMENT**

Scuba defines the following environment variables in the container:

• SCUBA\_ROOT – ( $added\ in\ v2.4.0$ ) The root of the scuba working directory mount; the directory where .scuba. yml was found

### **SEVEN**

# **CHANGE LOG**

All notable changes to this project will be documented in this file. This project adheres to Semantic Versioning.

#### 7.1 2.13.0 - 2024-03-25

#### **7.1.1 Added**

- Added support for Python 3.12 (#244)
- Add explicit support for mounting named volumes (#250)
  - This officially restores and extends the (unsupported) pre-v2.12 behavior.

## 7.1.2 Changed

- Removed use of deprecated pkg\_resources (#247)
- Rewrote scubainit in Rust (#232)

### 7.2 2.12.0 - 2023-09-15

#### **7.2.1 Added**

• Enable the use of relative paths in a volume hostpath (#227)

### 7.3 2.11.0 - 2023-09-09

### 7.3.1 Changed

- Introduced pyproject.toml and moved metadata from setup.py (#211)
- Added type annotations to scuba package and mypy checking in CI (#207)

#### 7.3.2 Removed

• Drop support for Python 3.5 - 3.6 (#205)

#### **7.3.3 Fixed**

• Fixed bug causing invalid volume spec error on Docker 24.0.5 and newer (#217)

### 7.4 2.10.1 - 2023-03-07

### 7.4.1 Fixed

• Create directories for volumes as invoking user rather than root. (#201)

# 7.5 2.10.0 - 2022-01-12

#### 7.5.1 Added

• Add ability to use environment variables in volume paths (#192)

### 7.6 2.9.0 - 2021-09-15

#### 7.6.1 Added

• Add ability to specify volumes in .scuba.yml (#186)

#### 7.7 2.8.0 - 2021-08-18

### **7.7.1 Added**

• Add ability to specify additional docker arguments in .scuba.yml (#177)

### 7.7.2 Changed

• Switched testing framework from from nose to pytest

### 7.8 2.7.0 - 2020-06-08

### 7.8.1 Changed

• Switched to using argcomplete to provide Bash command line completion (#162)

# 7.9 2.6.1 - 2020-04-24

#### **7.9.1 Fixed**

- scubainit ignores matching passwd/group/shadow file entries when creating the user. This allows transparently running scuba as root. (#164)
- Fixed bug where scubainit incorrectly displayed the exit status of a failed hook script. (#165)
- Fixed bug where user home directory was not writable when scuba workdir existed below the home directory. (#169)

#### 7.10 2.6.0 - 2020-03-25

#### 7.10.1 Added

- Add ability to override the shell in which the scuba-generated script is run, via command line option (--shell) or via .scuba.yml (#159)
- Add ability to specify in .scuba.yml that a particular alias should run as root (#159)

### 7.11 2.5.0 - 2020-03-05

### **7.11.1 Changed**

- Use username/groupname of invoking user inside container (#153)
- Ignore already existing UID/GIDs (#139)
- Allow top-level image to be omitted in .scuba.yml (#158)

#### 7.11.2 Fixed

• Fixed deprecation error with collections.Mapping (#156)

7.8. 2.7.0 - 2020-06-08

#### **7.11.3 Removed**

• Drop support for Python 2 (#154)

### 7.12 2.4.2 - 2020-02-24

# **7.12.1 Changed**

• Use GitHub Actions instead of Travis CI for publishing releases

### 7.13 2.4.1 - 2020-02-21

#### 7.13.1 Added

• Cache yaml files loaded by !from\_yaml

#### **7.13.2 Removed**

• Drop support for Python 3.4

### 7.14 2.4.0 - 2020-01-06

#### 7.14.1 Added

- Enable scuba to override entrypoint via --entrypoint or .scuba.yml (#125)
- Add support for nested scripts (#128)
- Add SCUBA\_ROOT environment variable (#129)
- Add support for escaped dots in !from\_yml (#137)

### 7.14.2 Changed

- Don't run image entrypoint for each line in a mult-line alias (#121)
- Use yaml.SafeLoader for loading config (#133)

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#### **7.14.3 Removed**

• Drop support for Python 2.6, 3.2, and 3.3 (#119, #130)

### 7.15 2.3.0 - 2018-09-10

#### 7.15.1 Added

- Add -e/-env command-line option (#111)
- Add support for setting environment in .scuba.yml (#120)

### **7.15.2 Changed**

• Implemented auto-versioning using Git and Travis (#112)

#### 7.15.3 Fixed

• Copy scubainit to allow SELinux relabeling (#117)

## 7.16 2.2.0 - 2018-03-07

### **7.16.1 Changed**

• Allow script to be a single string value in the "common script schema" which applies to hooks and aliases (#102)

#### 7.16.2 Fixed

- Display nicer error message if no command is given and image doesn't specify a Cmd (#104)
- Don't mangle && in scripts (#100)
- Don't allocate tty if stdin is redirected (#95)

### 7.17 2.1.0 - 2017-04-03

#### 7.17.1 Added

• Added --image option (#87)

7.15. 2.3.0 - 2018-09-10

### 7.18 2.0.1 - 2017-01-17

#### 7.18.1 Fixed

• Fixed image entrypoint being ignored (#83)

### 7.19 2.0.0 - 2016-11-21

#### 7.19.1 Added

- Added support for enhanced aliases (#67)
- Added support for per-alias image specification (#68)
- Add bash completion support (#69)

### **7.19.2 Changed**

- All ancillary files are bind-mounted via single temp dir
- · Hook scripts are moved to hooks/ subdirectory
- User commands always executed via shell (#66)
- Top-level directory mounted at same path in container (#70)
- Alias names cannot contain spaces
- Improve distributions (#74, #75, #76, #78)

#### **7.19.3 Removed**

• Remove support for remote Docker instances (#64) Support for this was limited/broken as of 1.7.0 anyway; this officially removes support for it.

#### 7.19.4 Fixed

• Fixed inability to run an image that doesn't yet exist locally, broken in 1.7.0 (#79)

### 7.20 1.7.0 - 2016-05-19

#### 7.20.1 Added

• Add support for scubainit hooks

### 7.20.2 Changed

- scubainit re-implemented as a C program, which does the following:
  - Creates the scubauser user/group
  - Sets the umask
  - Switches users then *execs* the user command This is to provide more control during initialization, without the artifacts caused by the use of 'su' in the .scubainit from 1.3.
- scubauser now has a proper writable home directory in the container (#45)

#### 7.21 1.6.0 - 2016-02-06

#### 7.21.1 Added

• Add -d to pass arbitrary arguments to docker run

#### 7.22 1.5.0 - 2016-02-01

#### 7.22.1 Added

- Add -r option to run container as root
- Add automated testing (both unit and system tests)
- Add support for Python 2.6 3.5
- · Added to PyPI

#### **7.22.2 Changed**

- Scuba is now a package, and setup.py installs it as such, including an auto-generated console\_script wrapper.
- --dry-run output now shows an actual docker command-line.
- Only pass --tty to docker if scuba's stdout is a TTY.

#### 7.22.3 Fixed

- Better handle empty .scuba.yml and other YAML-related errors
- Fix numerous bugs when running under Python 3

7.21. 1.6.0 - 2016-02-06

### 7.23 1.4.0 - 2016-01-08

#### 7.23.1 Added

• Added --verbose and --dry-run options

#### 7.23.2 Removed

• umask is no longer set in the container. (See #24)

#### 7.23.3 Fixed

• Problems introduced in v1.3.0 with Ctrl+C in images are fixed. The user command now runs as PID 1 again, as there is no more .scubainit script.

### 7.24 1.3.0 - 2016-01-07

#### 7.24.1 Added

• Set umask in container to the same as the host (local Docker only)

### 7.24.2 Changed

- Change working directory from /build to /scubaroot
- Use .scubainit script to create scubauser user/group at container startup. This avoids the oddity of running as a uid not listed in /etc/passwd, avoiding various bugs (see issue 11). (local Docker only)

#### 7.25 1.2.0 - 2015-12-27

#### 7.25.1 Added

- · Search up the directory hierarchy for .scuba.yml; this allows invoking scuba from a project subdirectory.
- Add ! from\_yaml support to YAML loading; this allows specifying image from an external YAML file (e.g. .gitlab-ci.yml).
- · Add CHANGELOG.md

### **7.25.2 Changed**

• Show better error message when docker cannot be executed

### 7.26 1.1.2 - 2015-12-22

#### 7.26.1 Fixed

• Don't pass --user option when remote docker is being used

### 7.27 1.1.1 - 2015-12-22

### 7.27.1 Fixed

• Fix bug when aliases is not found in .scuba.yml

# 7.28 1.1.0 - 2015-12-20

#### 7.28.1 Added

• Support for Bash-like aliases, specified in .scuba.yml

# 7.29 1.0.0 - 2015-12-18

#### **7.29.1 Removed**

• Remove the command node from .scuba.yml spec; it limits the usefulness of scuba by limiting the user to one command. Now command is specified on command line after scuba.

#### 7.29.2 Added

- Argument parsing to scuba (-v for version)
- Check for and reject extraneous nodes in .scuba.yml

#### 7.30 0.1.0 - 2015-12-09

First versioned release

# **EIGHT**

# **CONTRIBUTING GUIDE**

This file is incomplete. Feel free to open an issue if there is missing information you desire.

# 8.1 Code Format

Scuba is compliant with the Black code style. Code format in PRs is verified by a GitHub action.

To check code formatting:

\$ ./code\_format.py

To fix code formatting:

\$ ./code\_format.py --fix