
Clement Verna's Notes Documentation

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1.1 Python Trick and Tips

Get a dict keys in a for loop

```
a = {'a': 1, 'b': 2, 'c': 3}
for key in a:
    print(key)
```

the keys a, b and c will be printed.

Run a single test with nose

```
nosetests name_of_the_module.py:Nameoftheclass.nameofthetest
```

Get Color in a container shell

```
docker exec -it -e TERM=xterm name_of_container /bin/bash
```

Usefull debugger ipdb

```
$ dnf install python2-ipdb
```

Dedugger to check -> pdb++

Expend PYTHONPATH to add working dir

```
$ export PYTHONPATH="$ (pwd) :${PYTHONPATH} "
```


2.1 Fedora notes

Disk usage

```
$ du -shxc /*
```

-s = summarize

-h = human readable

-x = one file system

-c = grant total

Koji scratch build

```
$ koji build --scratch f27 package.srpm
```

Curl download of file

```
$ curl -o name_of_the_file https://url_of_the_file
```

Build a srpm with mock

```
$ mock -v -r fedora-27-x86_64 SRPM/my.srpm
```

RPM get version of an rpm

```
$ rpm -q --qf "%{version}\n" python3
```

journalctl follow a service logs

```
$ journalctl -lfu name_of_the_service
```

2.2 NEOVIM

Using cscope with for Python. First need to install the pycscope project <https://github.com/portante/pycscope>. Then generate the cscope output file

```
$ cd source_code_dir
$ pycscope -R
```

This generate a cscope.out file. Inside vim run the following command to add the cscope file to the db

```
:cs add cscope.out
```

Then use the cs command to search the symbols

```
find = Query cscope. All cscope query options are available
except option #5 ("Change this grep pattern").

USAGE = cs find {querytype} {name}

{querytype} corresponds to the actual cscope line

interface numbers as well as default nvi commands:

0 or s: Find this C symbol
1 or g: Find this definition
2 or d: Find functions called by this function
3 or c: Find functions calling this function
4 or t: Find this text string
6 or e: Find this egrep pattern
7 or f: Find this file
8 or i: Find files #including this file
9 or a: Find places where this symbol is assigned a value
```


3.1 Fedora's Openshift Build System

3.1.1 Upstream

- atomic-reactor
- osbs-client
- Openshift (Build system)
- koji-containerbuild

Development Environment

- osbs-box

3.1.2 Documentation

- osbs doc and on readthedocs
- Fedora Layered Image Build System
- OSBS deployment guide

3.1.3 Deployment

Fedora Infrastructure ansible:

- osbs cluster playbook
- osbs atomic-reactor role
- osbs-client role
- osbs-common

- [osbs-namespace](#)
- [osbs-on-openshift](#)
- [ansible-ansible-openshift-ansible](#) role

Fedora Infrastructure SOP:

- [FLIBS SOP](#)

3.1.4 Packages

- <https://src.fedoraproject.org/rpms/osbs-client>
- <https://src.fedoraproject.org/rpms/atomic-reactor>
- <https://src.fedoraproject.org/rpms/koji-containerbuild>

3.1.5 Misc

Rebuild of container buildroot

```
$ docker build -t buildroot --rm --no-cache /etc/osbs/buildroot
```

Update packages on target using ansible

```
$ ansible $target -m package -a "name=koji-containerbuild state=latest"
```

Check for build running in openshift

```
$ oc login
$ oc status
$ oc -n osbs-fedora describe build <my-build>
```

Get builds for a namespace

```
$ oc -n namespace get build
```

Cancel a build

```
$ oc -n namespace cancel-build <my-build>
```

Clean old builds

```
$ oc adm prune builds --keep-complete=2 --keep-failed=1 --keep-younger-than=24h0m0s --
↳orphans --confirm
```

Docker insecure-registry : To add the insecure registry need to edit the `/etc/sysconfig/docker` and modify the `OPTIONS` parameter

[historical bugzilla FLIBS](#)

4.1 Command

git diff (show only file name)

```
$ git diff --name-only
```

git create a patch from HEAD

```
$ git format-patch -n HEAD^
```


CHAPTER 5

Indices and tables

- `genindex`
- `search`