

Openstack python libraries

- `virtualenv ~/virtualenv/openstack`
- `. ~/virtualenv/openstack/bin/activate`
- `pip install python-openstackclient`

NOTE

- boot from volume, it will persist even if you terminate the instance.
-: boot from image (empheral) it will persist until you terminate the instance.

empheral will run on gluster, volumes not yet.

```
#!/bin/bash
```

```
. ~/virtualenv/openstack/bin/activate
```

```
export OS_AUTH_URL=http://nebula.ncsa.illinois.edu:5000/v2.0
```

```
export OS_TENANT_ID=527f96cd4d154a378d41ab30d3938009
```

```
export OS_TENANT_NAME="BROWNDOG"
```

```
export OS_PROJECT_NAME="BROWNDOG"
```

```
export OS_USERNAME="kooper"
```

```
export OS_PASSWORD="something"
```

```
export OS_REGION_NAME="RegionOne"
```

```
export PS1="(openstack)\[\e]0;\a\]\h:\W \u [${OS_PROJECT_NAME}] \$_ "
```

Some openstack commands

- `./ISDA-openrc.sh`
- `openstack servers XXX`
- `openstack volumes XXX`
- `openstack floating ip XXX`