S3 Quickstart (demo)

This document is a recipe showing how to use S3 interface for first-time user. Before you start, see cli for setup. Ensure that you can authenticate and use the openstack client before proceeding.

Credentials

Obtain application credentials

```bash
openstack ec2 credentials create
```

Test Access with S3CMD Utility

Install the s3cmd utility

```bash
python3 -m pip install --user s3cmd
```

Edit ~/.s3cfg to include the credentials

```
[default]
access_key = <ACCESS_KEY>
secret_key = <SECRET_KEY>
host_base = https://overcloud.cs.uchicago.edu:8000
host_bucket = https://overcloud.cs.uchicago.edu:8000
```

Test

```bash
s3cmd mb S3://chudler-bucket1
s3cmd ls S3://chudler-bucket1
```

Test Access with Python Boto (example)

Install boto library

```bash
python3 -m pip install --user boto
```

```python
import boto
access_key = '<ACCESS_KEY>'
secret_key = '<SECRET_KEY>'
conn = boto.connect_s3()
```
aws_access_key_id = access_key,
aws_secret_access_key = secret_key,
host = 'overcloud.cs.uchicago.edu',
port = 8000,
is_secure=True
)

for bucket in conn.get_all_buckets():
    print("{name}	{created}"
        name = bucket.name,
        created = bucket.creation_date,
    )
bucket = conn.get_bucket('chudler-bucket')
# key = bucket.new_key('hello.txt')
# key.set_contents_from_string('Hello World!')

# hello_key = bucket.get_key('hello.txt')
# hello_key.set_canned_acl('public-read') # UNSAFE! WATCH OUT!
# hello_key.set_canned_acl('private')