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

```
openstack ec2 credentials create
```

Test Access with S3CMD Utility

Install the s3cmd utility

```
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

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

Test Access with Python Boto (example)

Install boto library

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

```
import boto
import boto.s3.connection
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}\t{created}".format(
            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')
```

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