Jetstream Overview:
Hands-on with Atmosphere

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Cloud Computing Terms…simplified

**Image:** a file on a disk. It will be booted to create an…

**Instance:** a running virtual server; i.e. something you can log into.

**State:** something worth remembering; i.e. the state of the system
Cloud Computing Terms…simplified

**Flavor**: the size of a running instance; i.e. #core, RAM, disk

**Hypervisor**: the thing the instance runs on; something akin to a software defined hardware compute server.

**Snapshot**: the process of taking an instance and turning it to an image.
Cloud Computing Terms...simplified

States:

**Running:** the *instance* is up & running

**Suspended:** the *instance* is memory resident but not running

**Stopped:** the *instance* is shutdown akin to powering down

**Shelved:** the *instance* is shutdown, written to disk, and stored
Cloud Computing Terms…simplified  (Cont.)

**Object store**: a blob of bits; it has a starting address & a size. There may be metadata associated with the object. The data is consumed in a streaming manner.

**Block store**: a software defined entity akin to an unformatted hardware disk drive.

**Filesystem**: hierarchical in nature, directories & files, ability to open, seek, read, write.

**Persistent storage**: If you pull the plug, it will still exist when power is restored. Safe to store data or state here.

**Ephemeral storage**: If you pull the plug, it no longer exists. (Don’t leave your data here!!)
OpenStack Overview

Client → Keystone

Keystone → Nova

Nova → Ceph

Ceph → Glance

Glance → Compute

Token

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Getting into the hands on part -

Open [https://use.jetstream-cloud.org](https://use.jetstream-cloud.org) in your browser.

Login slips will be distributed momentarily!