Hosted Cloud Services

Virtualisation

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Hosted Cloud Services

We can think of hosted cloud services as falling into three categories:

- ► Infrastructure as a Service
- ► Platform as a Service
- ► Software as a Service

W_{HY}?

- ► They are cheap
- ► They are flexible

Why not?

- ► You're operating at such a large scale that it's not cheap.
- ► You don't need the flexibility.
- ► You have a special use case.

Some providers

- ► AWS (Amazon)
- ► Azure (Microsoft)
- ► Digital Ocean
- ► Linode
- ► Catalyst

This is absolutely not an exhaustive list.

Our cloud

Our cloud is operated by Catalyst. They host OpenStack services. Some OpenStack background

- ► It started in about 2010 from projects at Rackspace and Anso Labs.
- ► Free/Open Source
- ► It's a big collection of projects that run together operate a cloud.
- ➤ You can run your own, or there are a number of service providers who will run it for you.

What it does

OpenStack

- ► Hosts and manages **images**
- ► Hosts **volumes** (a.k.a block storage)
- ► Runs instances
- ► Provide **networking**
- ► Also, some other stuff.

And every other IaaS cloud service does basically the same things.

How we use it

We work with OpenStack using

- ► A web console
- ► A CLI
- ► A remote API