

CERN IT
Department

**Operating Systems and
Infrastructure Services
(OIS) Group**

Background image: Shutterstock

Docker on Openstack



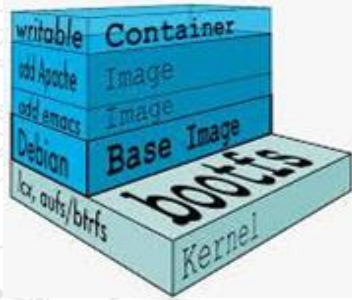
Nitin Agarwal

Software Developer and Programmer

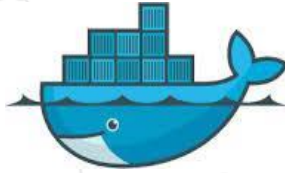
@nitinagarwal3006

Email ID : nitin.agarwal@cern.ch





An open platform to build, ship and run distributed applications.



docker

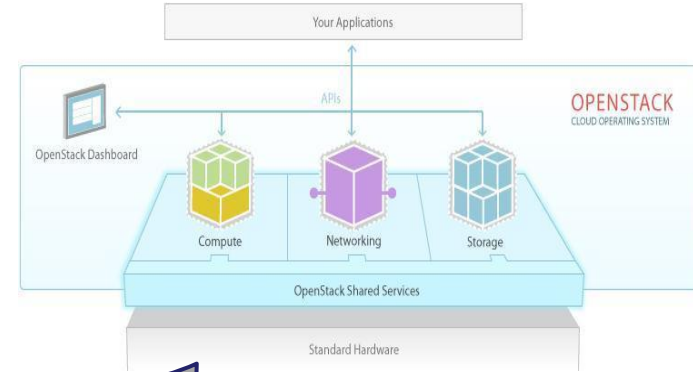
**Container based Virtualisation framework.
Free of framework, platform dependencies.**

Why use Docker ?

- Docker Containers are lightweight and fast.
- Global image portability and delivery through Registry.
- Completeness of vision (Runtime, Configuration, Build, Deployment, Orchestration).



A cloud operating system that controls large pools of compute, storage, and networking resources throughout a data center.



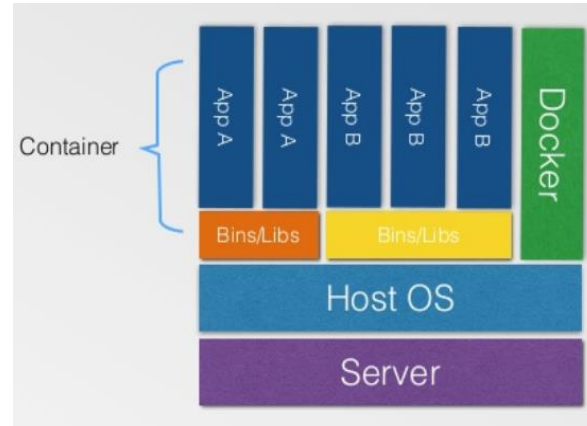
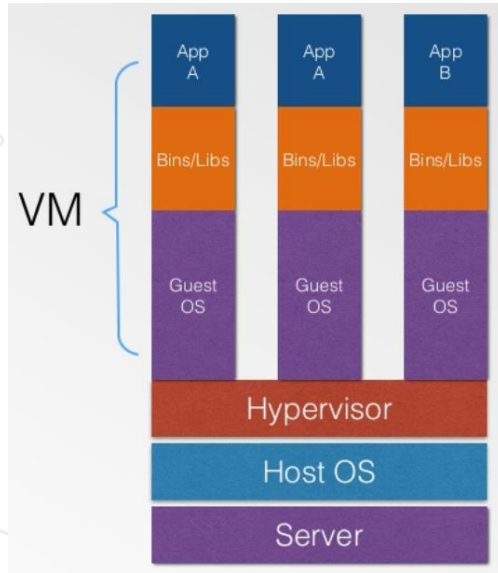
Follow [Twiki Docs](#) for Configuring Docker.

Where to store the data, No more Physical resources ?



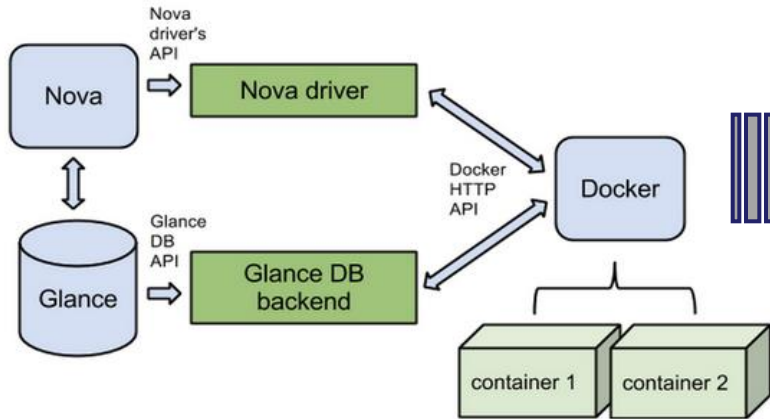
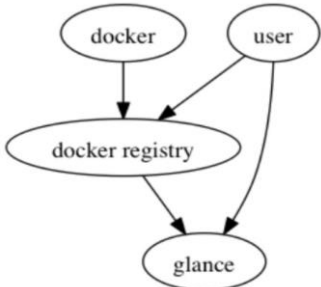
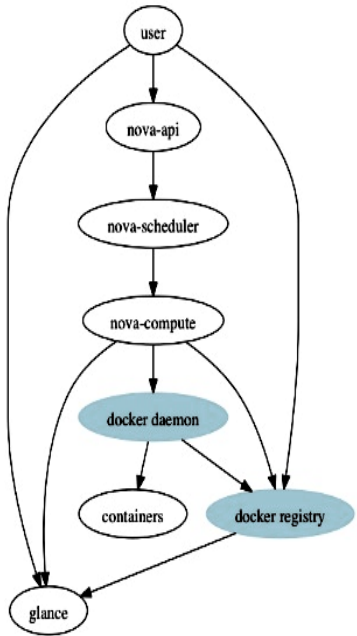
Containers are isolated, but share OS and, where appropriate, bins / libraries.

How are Docker containers lightweight ?



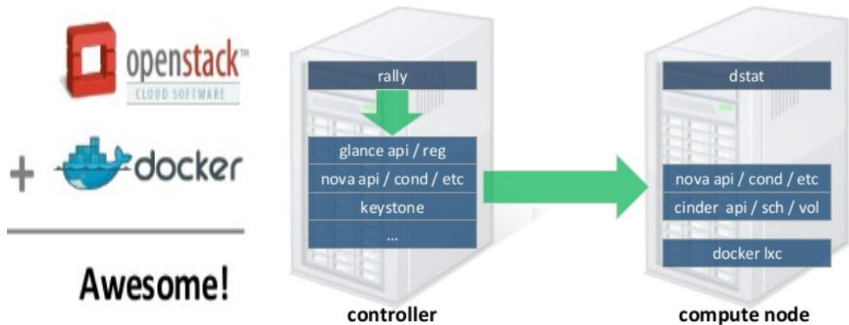
Nova Docker Architecture

- Docker registry is an image proxy.
- Users can upload through docker registry or to glance directly.
- Docker pulls images through the docker registry proxy.



Follow Twiki docs for configuring Nova Docker.

Docker on Openstack



Many Many
Thanks !!



Please Hold !!
Something more to show...
For 2 minutes....

Email at
nitin.agarwal@cern.ch

Q&A
You have
Questions
We have
Answers