OpenNebula: Service & Platform

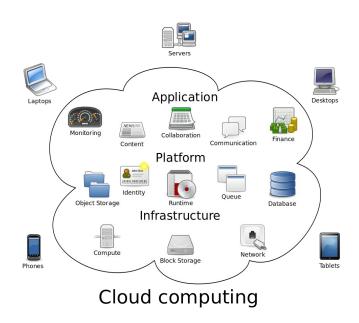


Course: Cluster, Grid, Clouds Course taken by: Andrey Y Shevel Maliha Rahman Mishi

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Cloud Computing: Definition

Cloud computing is the delivery of computing services—servers, storage, databases, networking, software, analytics, and more—over the Internet.



What is OpenNebula?

- OpenNebula is a Cloud Computing platform for managing heterogeneous distributed data center infrastructures.
- Manages Data Center's virtual infrastructure to build private, public and hybrid implementations of Infrastructure as a Service (IaaS).

OpenNebula: Objective

- Develop a simplest, powerful and adaptable solution for building and managing virtualized data centers
- Provide cloud developers and users with choice of cloud and system interfaces
- Openness of the processes and the technology

Why to use OpenNebula?

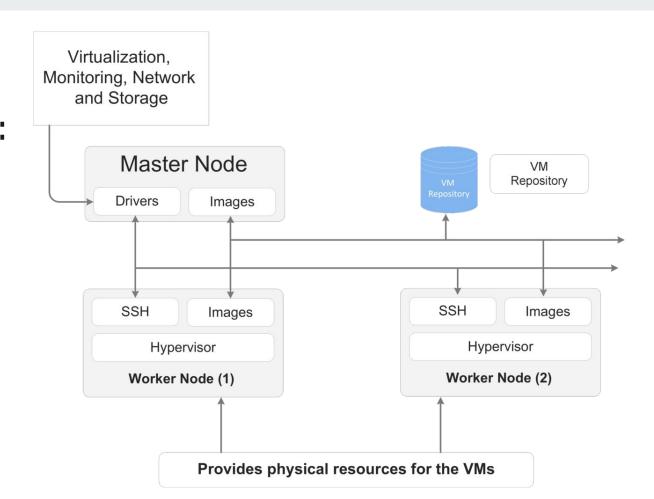
Flexibility: Easily build a cloud to fit data center

Scalability: Easily grow the size of each zone

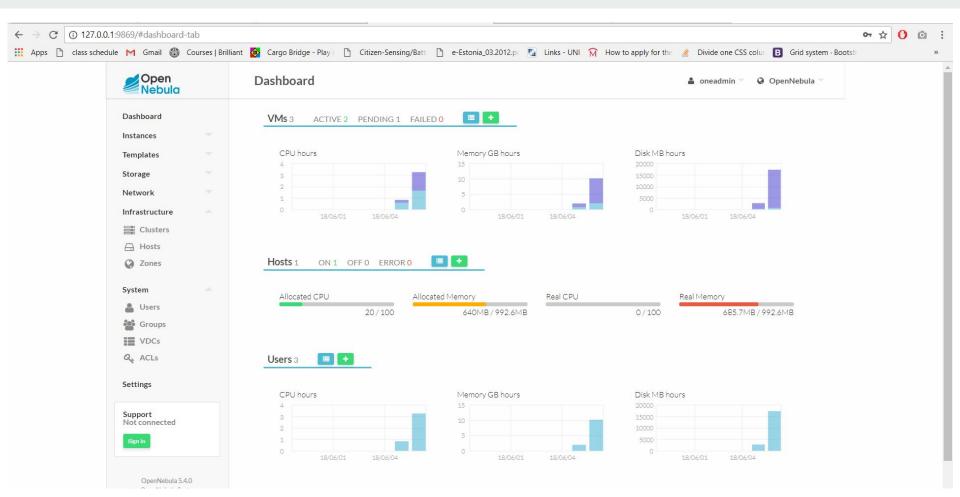
Openness: Run production ready open source software

Reliability: Cloud will run for years with little maintenance

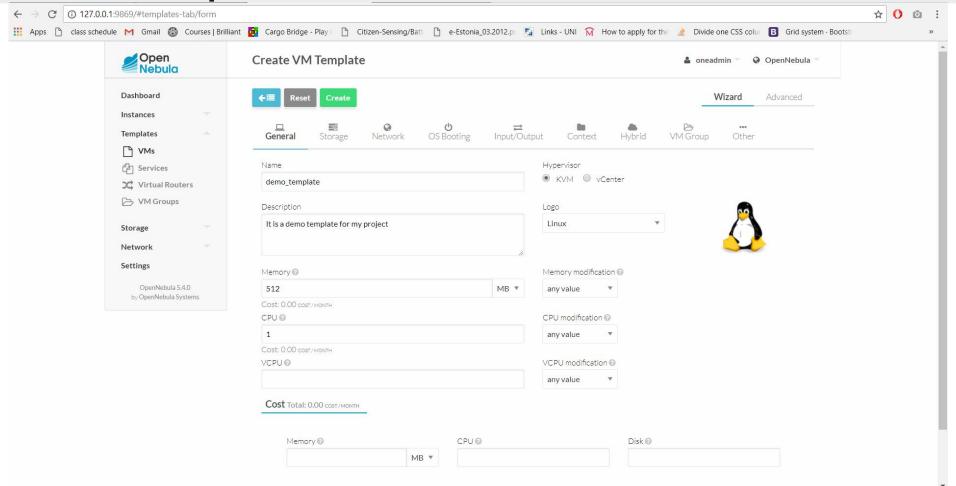
OpenNebula: Deployment model



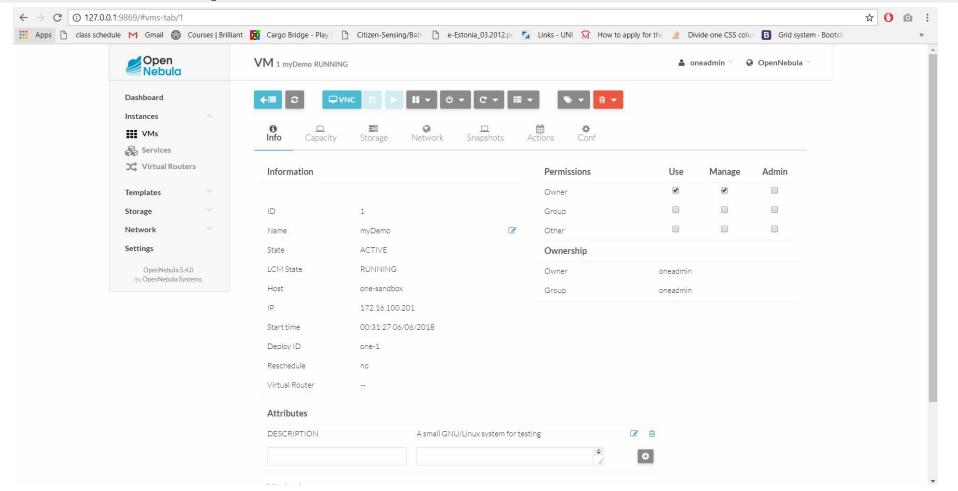
Demo: Dashboard



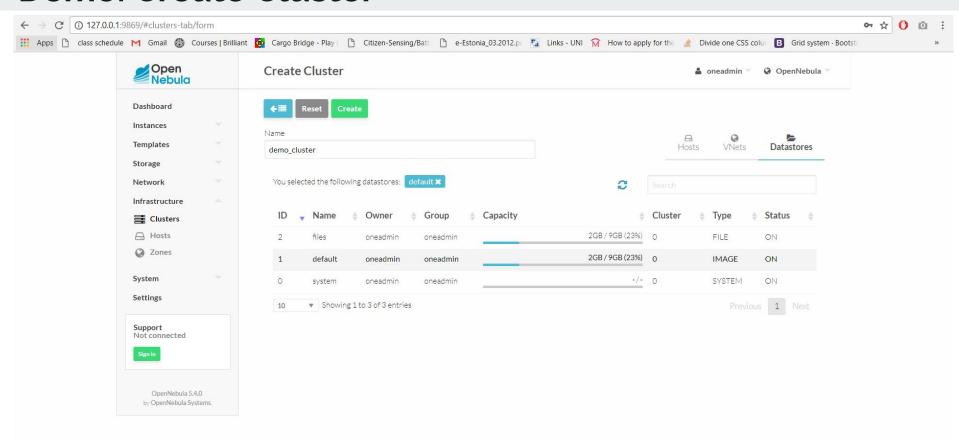
Demo: Template for Vitual Machine



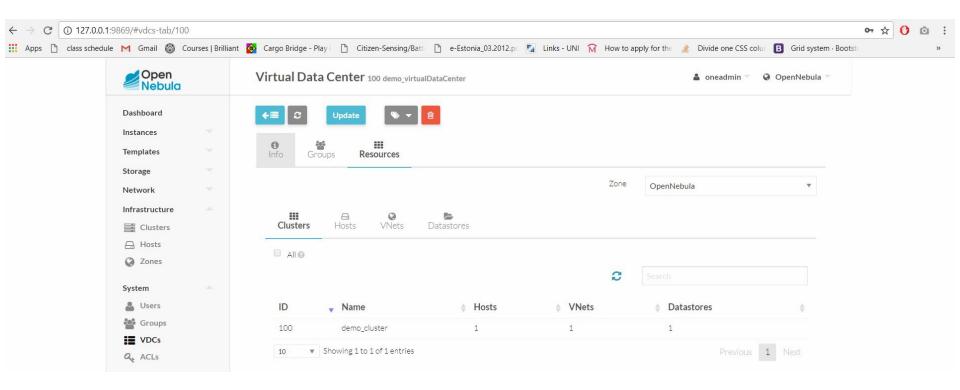
Demo: Template for Virtual Machine (2)



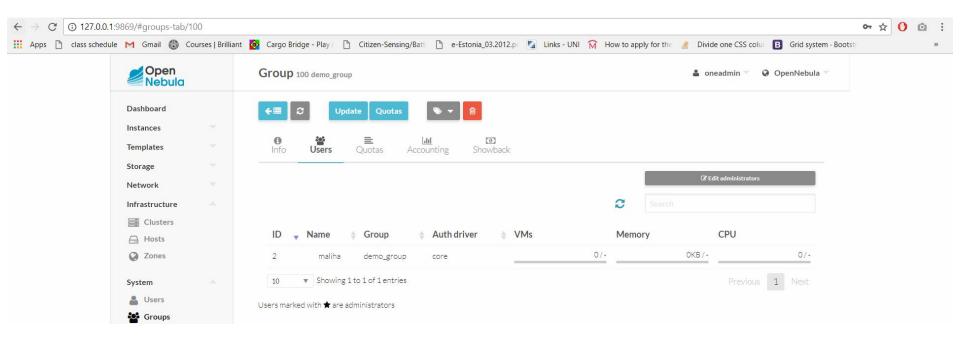
Demo: Create Cluster



Demo: Create Virtual Data Center (VDC)



Demo: Attributes of VDC



Thank you!