

OpenCloud

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Cloud for the people, by the people, of the people

1. Implementing IAAS

Plan:

1. There should be docker installed in all the host computers required to provide the service.
2. A GUI / Web Interface for the MasterNode which will control all the requirements of the customers.
 1. For every instance request spin up a container inside docker for the providers. Need to provide load-balancing and fault tolerance too for the required customers.
 2. On termination of the instance from the customer kill the docker instance and clean-up.
3. Customers can use the resources on a pay-as-you-go basis or community edition(free for research purposes)

Challenges and road-blocks:

- ☐ Need to configure load-balancing in the providers
- ☐ How to deal with node failures
- ☐ Need to use docker-swarm/kubernetes for efficient management
- ☐ How to entice customers in to be providers for this cloud

Reference Diagram:

