**INTRODUCTION TO OPENSTACK**

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**ABSTRACT**

Computing via cloud provides a wide network access to common set of adjustable on demand computational resources (like networks, servers, data storages, applications and services) which can be promptly allocated and released with minimum spent of customer efforts for management and interactions with service provider. Understanding openstack can grant access to achieve these benefits and beneficial as knowledge improvement for IT learner.

*Keywords: Openstack, Introduction, Cloud Computing*

**INTRODUCTION**

Getting to know OpenStack needs you to determine what we refer as cloud computing. There are three service models which define cloud computing:

* Infrastucture as a service (IaaS)
* Platform as a service (PaaS)
* Software as a service (SaaS)

Four deployment models of the cloud platform implementation include:

* Private Cloud
* Public Cloud
* Community Cloud
* Hybrid Cloud

Those are the key of the models term and further details can be found on cloud media. You may refer to these terms for a short review

**COMPONENTS**

OpenStack Compute (Nova) is one of the basic service which is installed on all cluster computer nodes. Level of abstraction of virtual equipment (processors, memory, block devices, network adapters) is managed by it. Management of instances of virtual machines addressing the hypervisor and giving such commands as it is launching and stopping provided by Nova.

* OpenStack Networking (Neutron), is responsible for network connectivity.
* OpenStack Keystone identification service is a centralized catalog of users and services that they have access to Keystone performs as a united authentication system of the cloud operating system.
* OpenStack Image Service (Glance) runs the catalog of virtual machines’ images, which users can use as templates to run instances of virtual machines in the cloud.
* OpenStack Block Storage (Cinder) service manages block storage, which can be used by running instances of virtual machines.
* OpenStack Object Storage (Swift) service is one of the two original projects that appeared in OpenStack besides Nova.
* OpenStack Telemetry (Celiometer) service is a centralized information source based on cloud metrics.
* OpenStack Orchestration (Heat) service has the main task of application life cycle provision in cloud infrastructure.
* OpenStack Dashboard (Horizon) service allows management of cloud resources through the web console.

**CONCLUSION**

OpenStack is free open source platform for cloud computing with some models and components. Further study about the history of OpenStack is necessary to understand more about OpenStack.

This short article was made for the task of server operating system which is given by my lecturer. Verification and validation are necessary.

**REFERENCE**

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