Effective cloud computing service based models

Mr. KULKARNI N. N. [1] , ***DR. PAWAR V. P.*** [2]

[1]*Research Student JJT University, Jhun jhunu, Rajasthan, India.*

[2]*School of Computational Sciences, SRTM University, University campus Vishnupuri, Nanded, M.S.*

Abstract

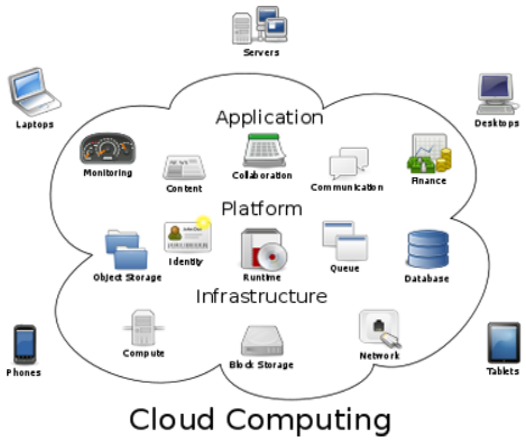
Cloud computing is the service on an internet provided by cloud computing service providers. It providers various service models which are helpful to understand cloud computing task. Cloud Computing applications as being composed of a set of layers upon which distributed applications may be built. These services modules are Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Software as a Service (SaaS), Identity as a Service (IDaaS), Compliance as a Service (CaaS).

Keywords: Cloud Computing, IaaS, PaaS, SaaS, IDaaS, CaaS.

Introduction

Cloud computing is the delivery of computing and storage capacity as a service to a community of end-recipients. Cloud computing entrusts services with a user's data, software and computation over a network. Using Software as a Service, users also rent application software and databases. The cloud providers manage the infrastructure and platforms on which the applications run. [1]

The Cloud Computing is consider as fifth generation of computing with reference to mainframe, personal computer, client and the web services Cloud Computing is a structure that allow you to access applications that actually reside at location other than your computer or other Internet-connected services. It allows the user to access this remote information on internet.

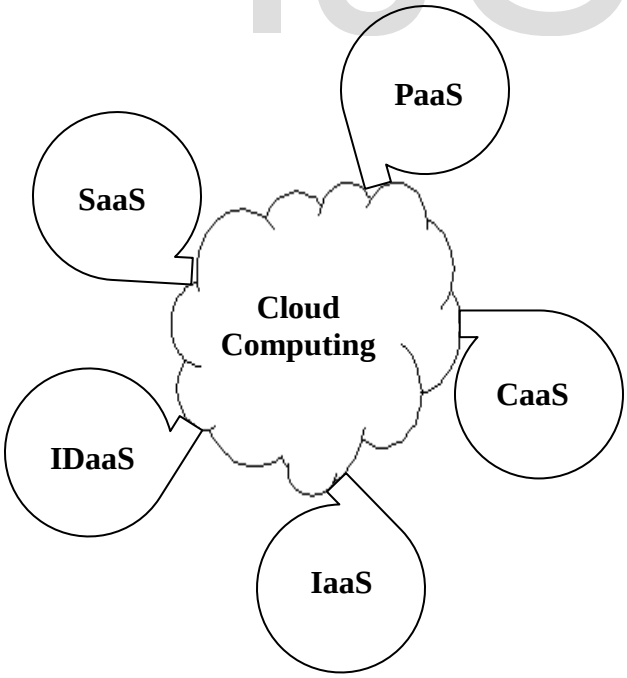


source:- www.webgranth.com

Benefits of Cloud Computing

- On-demand self-service
- Broad network access
- Resource pooling
- Rapid elasticity
- Measured service
- Lower costs
- Ease of utilization
- Quality of service
- Reliability
- Outsource IT management
- Simplified maintenance and upgrade
- Low Barrier to Entry

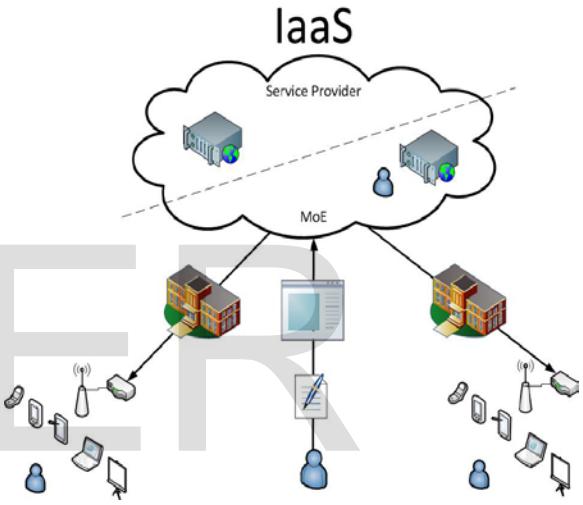
Cloud Service Models



IaaS

Infrastructure as a Service (IaaS) is a Cloud Computing service model in which hardware is virtualized in the cloud. The service vendor owns the equipment: server, storage, network infrastructure etc.

Examples: Amazon Elastic Computer Cloud, Rackspace Cloud,



Source:http://whatisthecloud.ca/wp-content/whatisthecloudiaas.jpg

PaaS

Platform as a Service (PaaS) model describe a software environment in which a specific types of development languages, application framework or other construct. Thus it supports standards such as HTML, DHTML, JavaScrip etc.

Examples: Google's App Engine, Google's Maps, gmail.

Source: www.vertiba.com/wp-content/uploads/paas-widgets.png

SaaS

Software as a Service (SaaS) is the most complete cloud computing model is one in which the computing software can be accessed globally over the internet.

Examples: Google gmail Calender, Quick Books online, Zoho Office suite

Source:www.internetsearchinc.com/wp-content/software-as-a-service-saas.jpg

IDaaS

Identity as a Service (IDaaS) in an identity service is one that stores the information associated with a digital entity in a form that can be queried and managed for use in electronics transaction.

Example: XDAS Audit system, SPML Provisioning Language, XACML policy Language.

IDaaS

Source: https://lh3.googleusercontent.com

CaaS

Compliance as a Service (CaaS) in which application would need to serve as a trusted third party, because this is man-in-the-middle type of service.

Example: athenhealth, bankserv, FedCloud, ClearPoint PCI.

Source: www.jaymiescotto.com/corp/wp-content/HIPAA.jpeg

Conclusion

The internet is the largest publicly available information repository and a natural source of attention. An immediate consequence for information on web become a current and important task. In this research paper I focus on various cloud computing service models Offered by various cloud computing providers. Cloud computing applications as being composed of a different effective services distributed to the end users.

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