Using Cloud Computing for Simple Hosting and CMS for Web Designers

A bridge to Productivity



"Education is not the filling of a bucket but the lighting of a fire." William Butler Yeats (1865–1939) Irish poet, dramatist.

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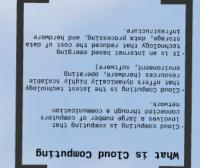


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Contents

- Cloud Computing Overview
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- Cloud Infrastructure
- Getting Started in the Cloud
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What is Cloud?

• A visible mass of condensed watery vapour floating in the atmosphere, typically high above the general level of the ground.

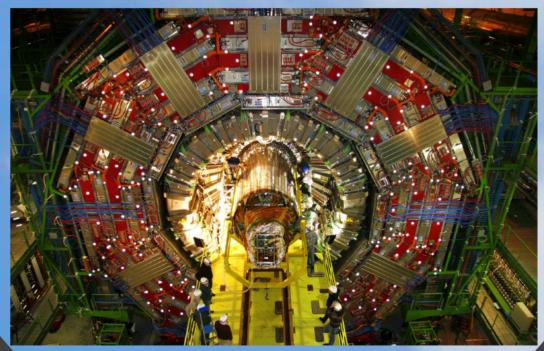


What is Cloud Computing

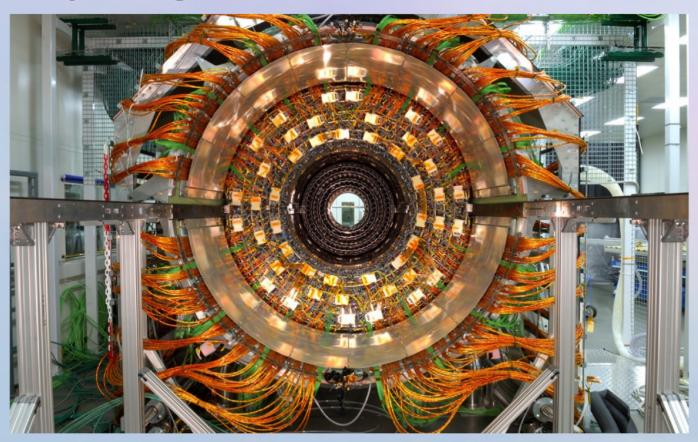
- Cloud computing is computing that involves a large number of computers connected through a communication network.
- Cloud Computing is the latest technology that offers dynamically highly scalable resources (hardware, operating environment, software)
- It is an internet based emerging technology that reduced the cost of data storage, data processing, and hardware infrastructure.



Is This a Cloud Computing



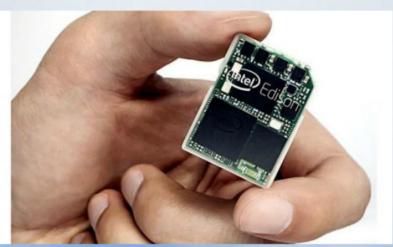
Well if not Then is this a cloud Computing





What is the Shape of Cloud ?

- Intel® Atom™ SoC based on leading-edge 22nm Silvermont microarchitecture including a dual-core CPU and single core MCU.
- Integrated Wi-Fi, Bluetooth, memory and storage. Support for over 30 industry-standard I/O interfaces via a 70-pin connector.





Cloud Architecture

The cloud architecture has three different types of layers

- a) SAAS Software as a Service: Provide on demand availability of software as a service to its users
- b) **PAAS** Platform as a Service: Provides a complete solution for software development.
- c) IAAS Infrastructure as a Service: Refers to computing and storage infrastructure as a service

Major Players



The Average Cloud user

Connects to the cloud via the Internet
 Does computing tasks, or Runs
 applications, or Stores Data

Types of Cloud

- Public Cloud: It is a model that is set up outside the enterprise firewall and the user is allowed to access the cloud resources via available API.
- Hybrid Cloud: The infrastructure resides partly within internal enterprise data center and partly consumed from third party cloud vendors [1-2].
- Private Cloud refers to setting up a virtualization environment on its own servers.

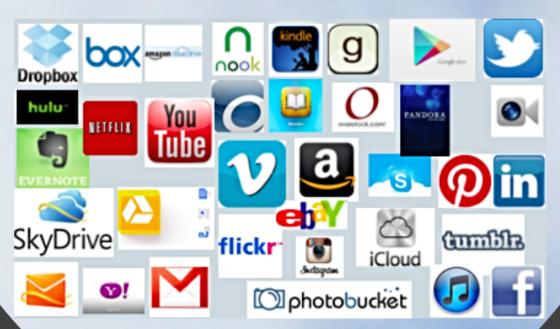
The Average Cloud user

- Connects to the cloud via the Internet
- Does computing tasks, or Runs applications, or Stores Data

The Cloud Requires

An Internet connection
An account - Created with a user name and a password
Agree to Terms

Do you Use the Cloud?



The Cloud Requires

- An Internet connection
- An account Created with a user name and a password
- Agree to Terms



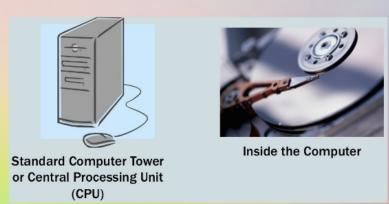
The Back Story

From ground to cloud



Computer Storage

- Computers have internal or hard drive storage(C: Drive)
- CPU has a drive for storing programs, documents,
- pictures, videos, presentations, etc...



Internal Storage

- Content is stored on THAT computer
- To use content must return to THAT computer
- Cannot access this content from another device or computer





Programs

- Purchase programs
- Load to the computer
- Each computer would need the
- program loaded and stored on the internal drive











External Storage

- Allows your content to become mobile
- Save to the storage device
- Take device to any compatible computer
- Open and use content







Networked Storage

- Multiple work stations talk to one unit that stores information and data.
- Data is not saved to the C: drive, but to a network drive
- Can retrieve the data stored to the network from any of the connected workstations.





Saving documents When you do a "save as" on your computer, you choose where to save the material.



Cloud Storage

- Create an Account User name and password
- Content lives with the account in the cloud
- Log onto any computer with Wi-Fi to find your content

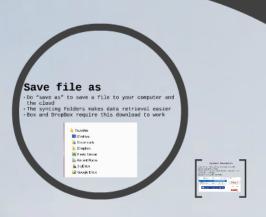












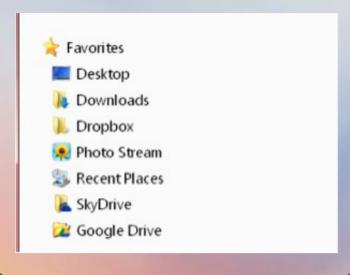
Downloads for storage

- Download a cloud based app to a computer you own
- The app lives on your Computer
- · Save files to the app
- When connected to the Internet it will sync with the cloud
- The Cloud can be accessed from any Internet connection



Save file as

- Do "save as" to save a file to your computer and the cloud
- The syncing folders makes data retrieval easier
- Box and DropBox require this download to work



Upload [

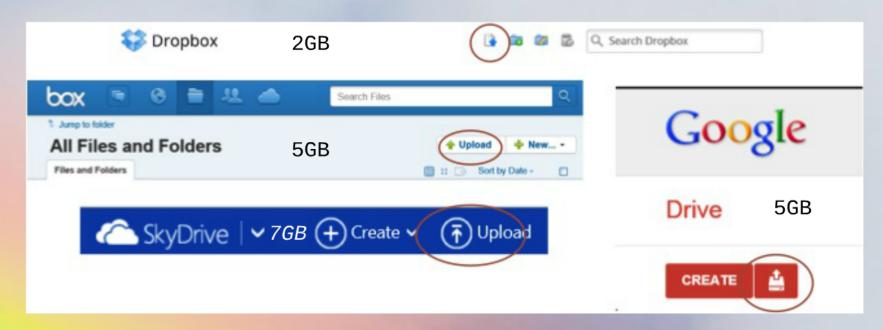
- · Log-in to the online · Click upload a file · Find the file on ha
- external storage

Croptox 298

SkyDrive | < 768 (+) Cross

Upload Documents

- · Log-in to the online storage account
- · Click upload a file
- Find the file on hard drive, network, or external storage
- Upload to cloud storage

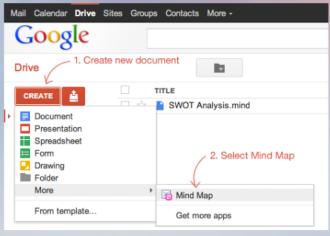


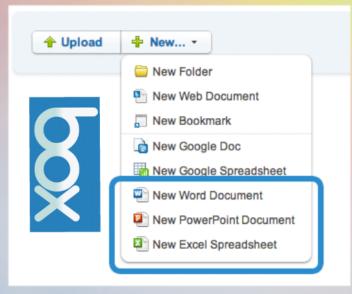
More than Storage

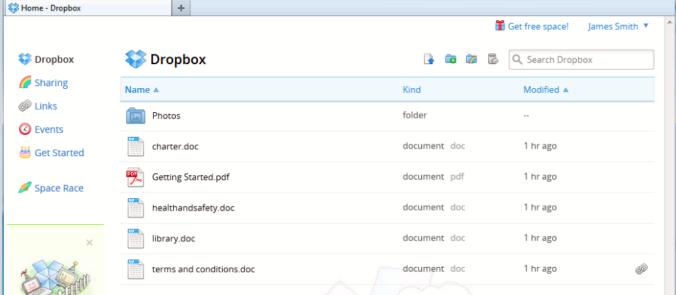
Software and applications

Document Creation

Google Docs SkyDrive Box







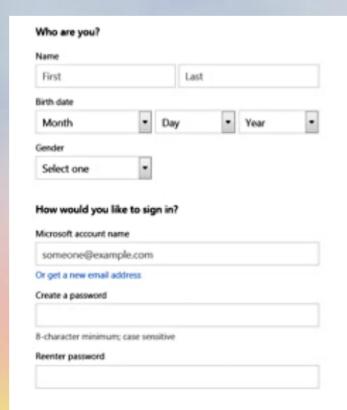
Internet is required

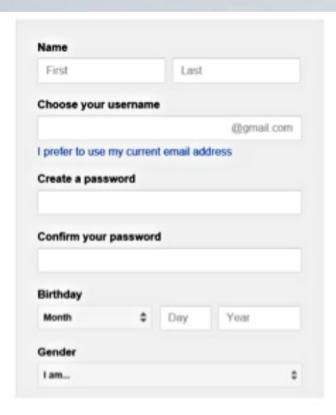
- Creation is happening in the cloud
- Saving is going to the cloud
- To retrieve files, must return to the cloud



Implications

What are we comfortable with using?





| First Name: | | |
|-----------------------|-----------------------------------|-------|
| | | |
| Last Name: | | |
| ☐ Email: | | |
| Password: | | |
| | Strength | |
| Confirm Password: | | |
| Your Phone: | | |
| Storage: | 5 GB - Free | |
| | Continue | |
| By registering you ag | Continue ree to Box's Terms of Se | nvice |
| By registering you ag | | rvice |
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| First name | ree to Box's Terms of Se | rvice |
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Benefits

- Saving Large Files
- Multiple file types Photos, videos, presentations, docs
- Back-up of stored files
- · File Sharing
- Access from devices
- Nothing to forget (thumb drive, cd)

Project collaboration



Disadvantages

- Security Issues
- · Terms of Service
- Privacy Policies

Cloud Computing

Advantages

- -Storage and Scalability
- -Backup and Recovery
- -Mobility
- -Cost Efficiency
- -IT Innovation

Disadvantages

- -Control and Reliability
- -Security and Compliance
- -Compatibility
- -Unpredicted Costs
- -Contracts and Lock-Ins

References

[1] Dr. Ahmad Raza Khan "Cloud Services for Collaborative Web Based Project Management System" International Journal of Computer Science Issues, Vol. 8, Issue 6, No 2, November 2011.

[2] Dr. Ahmad Raza Khan, Cloud Service for Collaborative web based Project Management System, International Conference on Cloud Computing and eGovernance (ICCCEG 2012), Bangkok, ISBN: 978-81-920575-0-7.

[3] Dr. Ahmad Raza Khan, Impact of Cloud Computing Collaboration with Educational Space, International Conference on Cloud Computing and eGovernance (ICCCEG 2012), Bangkok, ISBN: 978-81-920575-0-7

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[4] S. Sengupta, "Cloud Computing Security-Trends and Research Directions", IEEE World Congress on Services, pp. 524-531, 2011.

[5] S. Ramgovind, "The Management of Security in Cloud Computing", IEEE, pp. 1-7, 2010.A. N. Kumar, "Learning programming by solving problems. In Informatics Curricula and Teaching Methods", L. Cassel and R.A. REIS, Eds. Kluwer Academic, pp. 29-39, 2003.

News On Cloud Computing



Today

Virtualisation giant VMware has announced 'VMware vCloud Hybrid Service - Disaster Recovery', a service which provides a continuously available recovery site if a VMware data centre hits the skids.





Amazon cloud computing services to get price cut

Research Topics

Using Social Networking Tools for knowledge sharing

Designing a Virtual Cloud Infrastructure

Cloud Computing for Teaching and Learning: Strategies for Design and Implementation



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