Using Cloud Computing for Simple Hosting and CMS for Web Designers

A bridge to Productivity

Presented By
Dr. Ahmad Raza Khan
Mr. Ahsan Ahmed

“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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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

SAAS
- salesforce.com
- Drop Box
- Google Apps
- Microsoft Online Services

PAAS
- BUNGEEconnect
- Amazon Web Services
- Azure

IAAS
- EC2
- bluelock
- OpSource
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
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 Cloud Requires

- An Internet connection
- An account - Created with a username 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 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

![Dropbox](Image) 2GB

![Box](Image) 5GB

![SkyDrive](Image) 7GB

![Google Drive](Image) 5GB
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?
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


References


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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