

OS FOR CLOUD

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1. Introduction

Cloud operating system is an open source web desktop following the cloud computing concept. The basic idea behind cloud OS is that the whole system is now on web browser. Anyone can access the browser from anywhere. No one needs to sit on his/her personal computer to access the movies, documents etc. They just have to login to their cloud OS from anywhere and the user can use all the applications also like Microsoft office, Word Processors and PDF Reader. A cloud OS like the server OS manages resources. The server OS manages various hardware resources like CPU, memory disks but cloud OS manages cloud infrastructure, hides the cloud infrastructure details from the users and coordinates the sharing of limited resources. It is mainly written in PHP, XML and JavaScript. It includes a personal computers environment including most of the programs and utilities. It is also accessible from mobiles or by any portable device. It provides a flexible and dynamic environment. The companies providing these services are: Google, Amazon, Microsoft and Yahoo.

2. Technology

Linux is the natural technology to enable the cloud operating system. We are using linux because of following reasons:

- Its modular
- Its power efficient
- Its open source
- Its ubiquitous
- Its low cost
- It is the platform upon which largest cloud infrastructures in the world have been built.

3. Benefits

- Worldwide availability, as its available through internet.
- Dynamic content and design
 - We can customize the interface and contents according to our wish
- Provides us with many applications
 - Office applications, media applications, chat applications etc.
- Storage facility
 - Our data or files are stored safely on browser
- Browser and platform independent
 - All browsers and all operating systems are supported.
- Rich text editing facility is available

4. Future Thoughts

- Detailed definition of functional elements and interfaces of the kernel space cloud processes and of the user space libraries

- The design and implementation of the above mentioned elements with emphasis on fault-tolerance, security and elasticity.

5. Example

- Eye OS

Its one of the most used web operating system. The technology it uses is Apache, PHP5 and MySQL to run. Using this we can open our files on cloud using our local apps and can save them automatically on cloud. We can work with other users on the same document at the same time. We will get privacy and cloud computing at its best.

6. References

<http://www.slideshare.net/dattudharanikota/cloud-operating-systems>