

# Operating System Used in Cloud Computing

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**ABSTRACT-**The research paper is focus on various issues characteristics of cloud Operating System. This Paper also Focus on requirements of cloud OS. In this research paper we know about many different OS which is used by own in daily bases. This paper shows list of various cloud operating system. We define different cloud operating system separately.

**Keywords**—os-operating system,cloud,architecture,gui

## I. INTRODUCTION

The user connects to the Internet and "runs" the software as and when needed from a cloud server, perhaps even storing their files in the cloud too OS other operating system. The OS handles the links between hardware, the CPU, memory, hard drive, peripherals such as printers and cameras as well as the components. Cloud computing refers to the delivery of computing resources over the Internet. Instead of keeping data on your own hard drive or updating applications for your needs, you use a service over the Internet, at another location, to store.

### A. Cloud computing

The proposed cloud operating system offers variety of selected applications that allow the users to write documents, draw graphs, compile classes and programs. We use mobile phones in that we use Drop Box Type software. It is Cloud based software to run that particular software we need special type of operating system which support cloud features for our us. "Powerful services and applications are being integrated and packaged on the web in what the industry now calls cloud computing". The cloud can be established on either a single computer or with multiple computers. The first step towards building the cloud begins with a go through the available of documentation for single machine installation. Today, virtual machines on the cloud typically run the same traditional operating systems that were used on physical machines, e.g., Linux, Windows

### B. Operating system

Operating system is a platform for software under hardware. Operating system is a program that acts as an intermediary between a user of a computer and the computer hardware. Operating system

controls and coordinates the use of the hardware among the various application programs for the various users. Operating System defines Resource allocator that manages and allocates resources. . Operating System defines Control program as controls the execution of user programs and operation of I/O devices. Operating System defines

Kernel as the one program running at all time. OS Features Needed for Multiprogramming I/O routine supplied by the system. Memory management the system must allocate the memory to several jobs. CPU scheduling the system must choose among several jobs ready to run. Allocation of devices. Operating systems were originally developed to provide a set of common system services, such as I/O,

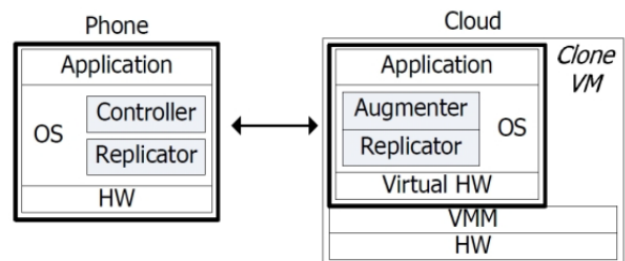
communication and persistent storage to simplify application programming. With the advent of multiprogramming, this charter expanded to include abstracting shared resources that they were as easy to use as dedicated physical resource.

## LIST OF OPRETING SYSTEM

1	GLIDE OS	13	CORNELI	25	GETEASYPEASY
2	AMOEBA	14	LUCIDE	26	OSW3
3	KOHIVE	15	EYEOS	27	TRANS OS
4	ZIMDESK	16	START FORCE	28	GIZMAG
5	GHOST	17	ZEROPC	29	HPCLOUD
6	MY GOYA	18	SOLAR OS	30	MIRAGE OS
7	JOLI OS	19	ICLOUD	31	SLAP OS
8	CLOUDOS	20	DEKOHDESKTOP	32	OSPREY
9	MEGAHA OS	21	VSTARE CLOUD	33	JEOS OS
10	MACINE CLOUD	22	GUEST OS	34	NEBULA OS
11	OSV	23	THE PALCE A	35	I SPACES
12	XOS	24	MIDORY	36	MOBILE CLOUD

## II. VARIOUS OPRETING SYSTEM

**Mobile cloud** computing service (MCCS) is an established perception that aspires at utilizing some techniques in cloud computing for the dispensation and storage of data on Smartphones



The Android OS is Linux-based and has the benefit of being used on various smartphones .The openness of the Android OS will aid user experience that will create future opportunity to get into other sections The authors argue that the openness of an operating system cannot be made at the expense of the system's security. As much as the authors see the openness of the Android OS as being a threat to its security

**TRANSOS** Architecture operating system that gets their machines up and running, whether that is the Microsoft Windows, Apple Mac, Linux, Chrome, operating systems seem firmly entrenched in the personal computer and their files, documents, movies, sounds and images, sit deep within the hard drive.

**HPCLOUD** Simplify your data center by pooling server, storage, and networking resources together with h Accelerate cloud innovation with the world's first software-defined server that delivers breakthrough efficiency and scale easy-to-use HPC resources built on a scalable platform delivering peak performance in an easy to use self-service model

**MIRAGE OS** Framework is fully event driven gui app We can create application like chemical sensors in your fridge 1 click for share your data with other device

**OSPREY** In the mid-term future we plan to port Osprey to PowerPC, ARM, and possibly MIPS, and to provide a Linux compatibility layer, We adopt the multi kernel design in Osprey by partitioning most of the kernel state, running an independent scheduler on each core, and using message.

**MEGAHA OS** megha OS is divided into three parts. They are cloud platforms (CP), cloud services(CS) and cloud storage(CSt). For the users cloud platform is provided by Megha OS

**VSTARE CLOUD** vStar cloud architecture mainly composed of two parts, terminal operating system and a cloud operating system. Traditional operating system is not sufficient for supporting network computing environment.

**JEOS OS** Just Enough Operating System (JeOS), Ubuntu and other Linux architect, Linux's open source licensing also makes it a natural fit for developers who want to distribute their software as an appliance without worrying about OS licensing costs and constrictions.

**XOS** Xtreamoslinux , For mobile devices, XtreamOS provides the XtreamOS-MD flavour with VO support and specially-tailored, lightweight services for application execution, XtreamOS services should be designed to scale with the number of entities and their geographical distribution.

**MIDORY** Microkernel Architecture---these mechanisms included low level address ,only software executing At most level Midori handles all the latest web technologies like HTML5 and CSS3 GUI based launch by Microsoft Corporation in 20 November 1985. Software-isolated processes.

**GLIDE OS**The Glide OS provides automatic file and application compatibility across devices and operating systems. With Glide OS you also get the Glide Sync App which helps you to synchronize your home and work files. Glide OS 4.0 is a comprehensive Ad-Free cloud computing solution.30 GB storage capacity

**AMOEB**A amoeba OS is an advanced Online Operating System. Log in to your free account and join a cloud computing revolution that begins with great apps like Shutter Borg, Extreme and Surf.

**MyGOYA** is a free online operating system. Your own personal desktop can be accessed from any Internet PC in the world and includes e-mail, chat, file sharing, calendar and an instant messenger. Manage your contacts from anywhere in the world.

**ZimdeskOS** is your computer on the web – the entire functionality of a PC – online. There is nothing to install. A web browser and internet connection are all you need to access your desktop, files & applications. You can access your data anytime from anywhere, from any PC.

**GHOST OS** is a virtual computer, leading company in the cloud computing industry that offers individuals and businesses file storage and apps in the cloud to enable secure personal computing from any device; can upload data of any type to your cloud storage from any device; can edit documents and pictures directly online within Ghost portal. It also offers full mobile

support; can browse your file and folders from your cellular device just like a USB flash drive.

**EYEOS** web OS is called eyeOS which is very similar to our model in term of offering file management and applications tools, however eyeOS cannot really customized and doesn't also offer interaction with social media applications such in our model, One of these products is the dropbox cloud solution, which links any file on the user PC be saving them in a folder to be synchronized with the dropbox service.

**The Cloud OS** has a Web Desktop, which is a nice GUI that is capable to contain multiple windows and allow users to make their normal cloud activities with friendly interfaces in use usernames and passwords to login to the cloud OS System throw any web browser on a pc, mac, or even smart phones. A user-friendly desktop will then appears to the user with all the services and applications allowed to him based on his role. the Cloud OS is a set of distributed processes whose purpose is the management of Cloud resources

**ICLOUD** Apple also has another cloud solution called Icloud. Icloud is not a full OS for the apple user however, it allow the users to synchronize their files and photos with the apple server and with the other apple devices. It also pack-up most of the users files and setting to the Apple cloud server

**OSV** we build a prototype system, named TrustOSV, which can host multiple trustworthy isolated computing environments on multi-core x86 hardware. The final evaluation shows that TrustOSV can provide enhanced security guarantees to the exposed VMs at modest cost. In this paper, we first make an analysis of the potential threats to a commodity hypervisor, and then propose architecture to build a more trustworthy executing environment for cloud.

**GUEST OS** A cloud provider normally uses virtual machine monitors to multiplex hardware resources, do server consolidation, etc. Hence, a normally running virtual machine monitor should successfully support the concurrent execution of multiple operating systems, commonly called the Guest Operating System, Guest OS. Guest OS explicitly run on pre allocated cores and RAMs and forcing the Guest OS touse network software instead of emulated I/O device

**Lucid Desktop** is a first web desktop that offers this technology. Lucid comes with lots of Applications. And we can browse photos, listen to music, and edit documents. It also comes with an RSS feed reader, some games, a calculator, and a bash-like terminal application. You can install additional third-party applications.

**SLAPOS** Its architecture is composed of two components SLAPOS master and SLAPOS nodes. These nodes are usually installed at home or inside data centers and they are used to run processes or to

**JOLICLOUD** in 2009 jolicloud was created now it has version jolios 1.2 in a market it is a free operating system designed work with cloud from connect the computer together. Today jolicloud OS provide as dropbox ,chromebook. Founded by Tariq Krim and Romain Huet .

**KOHIVE** it is online desktop OS which we can easily operate that Support GUI interface cloud base OS.

**STARTFORCE** A cloud OS in startforce we can run Windows apps such as MS Office, Adobe Acrobat and Quickbooks, and collaborate in web based application like stitch in web apps such as Salesforce.com, Google or your company's intranet web apps.

**ZEROPC** It is a latest OS for cloud launched in 2011 now it has 2.0 version is available in mobile phones and pc running on AWS platform, can provide access to thousands of user from a single user, Its file browser provides a way to manage photos, videos, etc GUI Component Zeropc interface like Microsoft window: icons.

**CORNELI OS** The Corneli OS Web OS is an easy-to-use, multiuser and cross-browser "Web Desktop Environment", "Web Operating System" or "Web Office" and comes with a set of cool applications like dropbox.

**GETEASYPEASY OS** GetEasyPeasy is designed for the cloud. It is configured with Wifi and wireless drivers that enable you to easily connect your netbook to the Internet and enjoy web applications straight from the desktop. Using an open source netbook OS should not be limited to open source applications. EasyPeasy's ethos is openness and freedom of choice, and provides you with options from the best of both worlds.

**OSW3** is defined as Linux-based operating system based on the cloud computing, OSW3 on-line applications built on Web3.0 with html5 and they do not use local hardware and software.

**CHROME OS** is based on Linux kernel ability to run android application. Operating system is build upon open source. Chrome OS will access remote application it is client based operating system. The chrome os will be centered under the web browser.

**MACIN CLOUD** is a remote Mac rental service. Users can access it through Internet .We can develop apps and run Mac programs. We can remotely view and control the macin cloud. We allow cloud based storage program such as drop-box and box etc.

**THE PLACES A OS** is a cloud operating system which provides facilities to add web apps like file manager, email user, radio and calendar. User can access it through Internet.

**ISPACES OS** is a multidesktop cloud computer. It runs on standard compliant browsers and support all major operating system. It can access through Internet. Ispaces run on any windows.

**SOLARIS OS** is the first cloud OS developed by oracle. Oracle Solaris brings together mission critical OS capabilities with cloud management technologies to deliver mission critical cloud infrastructure.

**SILVE OS** is a cloud OS built on silverlight, we can run it in any browser with silverlight installed. It is like window interface.

### III. CONCLUSION

Cloud operating system plays an important role in Internet Browsing and storing data. Cloud and many core systems share several challenges with respect to the operating system. Cloud is a new thought in the area of network computing. Traditional operating system cannot fulfil all the requirements of cloud computing. In this research paper we discussed different cloud operating system.

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