Abstract

Existing models of cloud computing are well suited for well trained and technical users but not at all practical for non-technical users. This is because it is annoyingly difficult for a non-technical internet user to setup a cloud based personal computing system. We cannot expect everyone can create a virtual machine, install OS, configure servers and then use that cloud machine for personal computing. The CybrOS uses a new approach thereby making cloud computing accessible to everyone. CybrOS Virtual Cloud Operating System is an operating system running
CybrOS: Virtual Cloud Operating System

on a cloud platform which can remotely be accessed by users over a network such as internet by means of a user friendly SaaS app. The CybrOS concept uses a highly structured setup of SaaS, PaaS and IaaS to deliver the computing power to the user in a very user friendly manner. The SaaS app allows a user friendly cross-platform front end that is user to access and operate the CybrOS which is installed remotely in PaaS which runs on IaaS. For each new user, IaaS hardware resources are allocated to create a virtual machine, the CybrOS with some default applications and settings is installed to the virtual machine and an account for the SaaS app is created. This allows everyone to very easily have an instance of powerful, scalable personal computer that can be accessed from anywhere and from any device thereby enabling the concept of personal computer-as-a-service. The CybrOS concept is the future of personal computing for the growing mobile-first cloud-first world.

References


Index Terms

Computer Science
Distributed Systems

Keywords

Web OS, Remote Virtual Desktop, Virtual Machine, personal computer-as-a-service,
operating-system-as-a-service,

Microsoft azure.