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CLOUDZWARE

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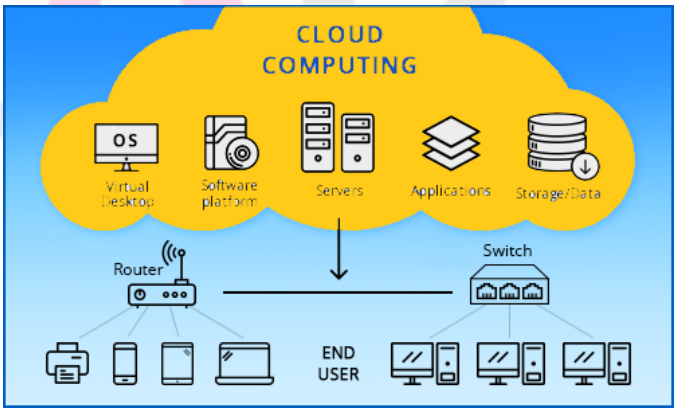
ABSTRACT

Cloudzware provides users with the type of hardware resources they need to run the application of their choice and save their money as well as time. Our Project is based on cloud computing in which we provide our clients with Infrastructure as a service (Iaas) . Our machines provide resources like Processor, RAM, Hard disc, Graphic etc depending on the requirement of the client. Client was provided with a login credential the first time he signed up on our portal, after that a UI will be fetched where the user can search for an application of his choice.
The selected application is hosted on our server. Once a request is made to run that application, an image of the hosted app will be fetched from the server and will be redirected to the user. These images provide a unique virtual machine for every user so that the work done by different users will not be synced. Every time the user logged in his portal; he/she can continue his work where he left on the last time the application is used.

Keywords: Cloudzware, Iaas, Cloud, Linux

INTRODUCTION

Cloudzware is a cutting-edge online programme that hosts apps in the cloud. Cloudzware main purpose is to let customers run large apps without having to install them on their machines. All they need is a stable internet connection. They may run their favourite apps at any time and from anywhere. IaaS (Infrastructure as a Service) from Cloudzware allows you to deploy a variety of high-end webapps on a server. These servers are managed and operated by our colleagues. The configurations of these servers allocate resources like processor, RAM, and hard disc space. People with insufficient hardware resources (memory, random access memory (RAM), solid state drive memory, and processor) are unable to run heavy software on their machine or system, necessitating the acquisition of extra hardware resources. They also have to confirm the device's compatibility, which might be costly, and they may not be able to buy it right away.
To address this issue, we invented Cloudzware, a platform that allows us to purchase a cloud server and install heavy apps like Android Studio, MatLab, Adobe, IntelliJ Idea, and others. Users must first create a username and password on our website. They then log into our cloud User interface, where they may see a list of all available programmes on our server. When a user clicks on their required software, we construct a plugin using API, and when the user clicks on the plugin, a tunnel is built between our UI and server, where the user may retrieve the image of the required software and work here, saving/storing their file in the cloud. On the server side, all of the apps are saved on our server. WineHQ fetches an image of an app from the server whenever a user requests it.
Using cloudzware's Iaas service, we can rent IT infrastructures such as servers and virtual machines (VMs), storage, networks, and operating systems from a cloud service vendor. We can create a virtual machine (VM) that runs Windows or Linux and install everything we want. We don't have to worry about the hardware or virtualization software when we use IaaS, but we still have to handle everything else. We receive the most freedom when we use IaaS, but we still have to put in more effort for upkeep.



METHODOLOGY

1. In this project we are using cloud servers for hosting our applications.

2. The Apache HTTP Server Project's goal is to develop and maintain an open-source HTTP server for modern operating systems like Linux and Windows.

3. Although Linux is used by the vast majority of Apache HTTP Server instances, newer versions also run-on Windows, OpenVMS, and a number of Unix-like systems. NetWare, OS/2, and other operating systems, as well as mainframe ports, were supported in previous versions.

4. We use Angular JS for the frontend.

5. AngularJS was a JavaScript-based open-source front-end web framework for building single-page apps. Google and a consortium of individuals and businesses were primarily in charge of it..

6. MongoDB is an open-source cross-platform document-oriented database programme. MongoDB is a NoSQL database system that uses JSON-like documents and optional schemas. MongoDB is a database management system developed by MongoDB Inc. and released under the terms of the Server Side Public License. For backend we are using Nodejs

7. Node.js is a cross-platform, open-source back-end JavaScript server running that utilises the V8 engine to execute JavaScript code outside of a web browser..

Wine is a free and open-source interoperability bridge designed to allow Microsoft Windows application applications and computer games to run on Unix-like operating systems.

To connect Linux to Windows, Bitwise SSH Client would be utilized.

8. Secure remote access to Windows servers and PCs is provided via our SSH Server. Our SSH server's most important feature is its security: unlike Telnet and FTP servers, Bitvise SSH Server encrypts data in transit. When you use SSH to log into your computer, no one can see your password or the files you're sending.

ADVANTAGES OF RESEARCH

1. Cloud applications enhance collaboration by allowing groups of people to share information on the cloud via shared storage fast and effortlessly.

2. It is easier to back up and restore data once it has been stored in the cloud.

3. Using an internet connection, we can access and store information quickly and easily from anywhere in the world at any time. By ensuring that our data is always available, an internet cloud architecture boosts organizational productivity and efficiency.

4. Cloud computing provides customers with Application Programming Interfaces (APIs) to access cloud services and charges them based on how much time they spend using them.

LIMITATION OF PROJECT

1. For the running the applications user must have strong internet connection because our apps will be going to get hosted on our cloud infrastructure

2. A robust internet connection is essential since data and graphics may be delayed if the user does not have a strong internet connection.

3. In the beginning, we will first host free license applications, but if we receive sufficient funding, we will also provide premium licensing applications.
We'll also come out with a subscription-based model because users must have a current subscription to host paid apps.

4. We'll need a powerful memory server to host the software because it won't operate on any server that doesn't meet the requirements. As a result, our programmes will be hosted on a high-end server.

Future Scope

We are currently using a free application on our project, but we will aim to develop Subscription Plans in the future, where users can purchase our subscription plans and utilize our paid applications. We will attempt to construct software using platforms such as Salesforce, WordPress, Joomla, Canava, Ruby, and others.
Because their system does not match the criterion, users with low-spec PCs may experience unexpected programme crashes. Cloudzware intends to provide immediate assistance in running the same software on our server. Users need just use their internet connection to connect to our programme. They can run apps on even the most basic computers. They can access our application at any time and from any location.

Cloudzware is very cost-effective, and it may be used to help businesses develop. Cloudzware has a bright future ahead of it, with advantages for both the host and the consumer. Customers will benefit from running demanding applications on low-powered devices, while server providers would profit handsomely.

We may add pay-per-click subscriptions if the project is successfully implemented. Users can install heavy applications on their devices for relatively little money. It has the potential to be a profitable business model in the future.

CONCLUSION

As this project is meant for those people who does not have good specification PC and want to run high memory applications so, by using our project they can easily use those applications.

So, Basically, we are providing the cloud platform where use can come online and choose the application which they want to work without installing those on their PC.

Cloud computing allows for speedier innovation, more flexible resources, and scale economies by transmitting computing services via the Internet ("the cloud").

For those, this means being able to set up a new start-up company knowing that the initial funding will be low, but that the company will not become a victim of its own success, as has happened in the past when servers have been unable to figure out how to deal with demand and the company lost clients as a result of slow response times.

For many others, cloud computing implies less administrative headaches because authorization, backup, and security are all handled elsewhere. In other cases, cloud computing refers to a powerful processing environment that is available from anywhere via a web browser.

Infrastructure, platform, and software as a service are all examples of very attractive approaches for entrepreneurs to supply new things. There are already examples of extensively used goods and websites that have maintained incredible popularity because creative concepts were quickly accepted and the subsequent demand was easily met thanks to cloud computing's flexibility.

The only limit to the future appears to be innovators' imaginations, who really can imagine applications that would help people interact, store, and process vast amounts of data, whether it's billions and billions of people with small collections of personal data or a single large organization with large collections of information to be processed.

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