

EECS 448
FRAGILE DEVELOPMENT

CLOUDF DEPLOYMENT PLAN

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Production

Obstacles in Getting to Production

There are several obstacles that must first be resolved before the cloud storage system can be put into product. Legal elements, distribution expenses, and 3rd party software are the 3 largest groups of barriers in pushing the Cloudf storage system to market.

Legal elements include obtaining a unique domain name with appropriate server certifications to verify Cloudf has proper safety in place to protect from hackers and other forms of online legal violations. In addition, obtaining proper Trademarks for the software and logos produced and used in the Cloudf storage system.

Distribution expenses are directly related to the cost in which other software distributors charge to market Cloudf on their medium. Currently Cloudf runs on a server with an exposed access point for the user interface, but is being developed to expose the user interface across multiple platforms such as Android and Apple app stores, all of which still communicate with a central backend server.

The last fiscal barrier to overcome is the cost of the backend server previously mentioned. There are many server renting companies that provide services of hosting servers or using hardware to store large quantities of data. Cloudf is a cloud storage system thus requires a large portion of disk space to store mongoDB data. Amazon Web Solutions provides both the backend server and the storage space needed to launch Cloudf into production.

Steps to Production

The first step to take the Cloudf storage system to production is to purchase the domain name and AWS (Amazon Web Solutions) server with enough physical resources to maintain a healthy server. After the server is running with the current version of Cloudf and is exposed, we can then tie the domain name to the exposed service and allow the world to gain access to Cloudf.

Now that the server is running it will be important to put up some security regulations to ensure user safety within Cloudf. As Cloudf is responsible for the safety and security of each users individual personal files, user privacy will be top priority. The steps taken to prevent this include purchasing of a trademark thus to preserve the legitimacy of Cloudf and prevent any copyright that may occur therein. Also SSL certifications will be bought and applied to the server to again insure safety among all users.

Upon finalization of all the components above the Cloudf storage system is now fully ready and in production. The cloud storage system is safe and secure for both developers and users, as well as protected from any theft of intellectual property. The system itself is stable on the AWS server and can easily be expand if the load becomes to bearing. As a result of being a part of a cloud system through AWS resources like CPU and disk space can easily grow and shrink with traffick to minimize production and maintenance costs.

Production Costs

Domain Name Cost

The domain name cost is the cost associated with purchasing a domain name in which the public will use to access the Cloudf storage system. Cloudf.com itself is not currently available for purchase, however CloudfStorage.com is. There are several websites that offer domain names, but the Cloudf domain name will be bought and maintained through goDaddy.com.

Domain Cost

\$2.99 USD Year 1
\$14.99 USD After

Server Certifications

The server certifications needed for our AWS server is a SSL certification that provides a layer of security for Cloudf users attempting to access or server. SSL certifications are yearly expense, and are an affordable way of bringing security to a publicly accessible server, like Cloudf.

SSL Certification Cost

\$76.95 USD Yearly

App Store Costs

Distribution of the Cloudf software on mobile app markets is a major component of increasing both the number of users and the accessibility between a user and their data. Cloud storage allows users to not only backup and save their data to a remote location, but access said data between multiple devices across all parts of the world. To do this Cloudf will expand into Apple and Android app stores, wherein users will be able to access their data across multiple platforms.

Mobile App Market Costs

\$25.00 USD One Time Fee - Android

\$99.00 USD Yearly - Apple Store

Trademark Costs

There are two one time trademark costs that occur in putting Cloudf into production. The first is purchasing a trademark for the cloudf logo. Registering a trademark for a logo with the U.S. Patent and Trademark Office (USPTO). Then we also need another trademark for the cloudf name to protect copyright between any of cloudf's assets and company name. This legal step ensures that once the cloudf storage system goes into full production the company is legally protected from any other individual trying to represent cloudf products or themselves as cloudf. This will also give legal power to cloudf to prosecute those who partake in copyright infringement or any kind of intellectual theft.

Trademark Costs

\$500.00 USD One Time Cost - Logo

\$200.00 USD One Time Cost - Cloudf Name

AWS Storage and Server Costs

Amazon Web Solutions will be used to obtain both the server, and hard drives where the users data for mongoDB will be stored. The server is charged yearly and will be used as the location wherein cloudf will be stored and ran. Then with regard to storage space, the costs can change with the amount of data a particular user chooses to store within cloudf, but for 8TB of space cloudf would be charged a \$1,000 monthly cost.

AWS Costs

\$25.00 USD Yearly - Server
\$1,000 USD Monthly Cost - 8TB Storage

Summary of Production Costs

The information below shows a summary of the total cost to push the cloudf storage system into production. The costs listed are for the first year so there are costs that would become irrelevant after the first year, but are still included to show the first year cost of a cloud storage system.

Production Cost Summary (First Year)

\$2.99 USD - Domain Cost
\$76.95 USD - SSL Cert
\$25.00 USD - Android App Store
\$99.00 USD - Apple App Store
\$500.00 USD - Logo Trademark
\$200.00 USD - Cloudf Name Trademark
\$25.00 USD Yearly - Server
\$1,000 USD Monthly Cost - 8TB Storage
\$1928.94 - Total Cost
