**Archtecture aproach**

Elements that are assumed

1. We do not have an approximate number of transactions, so it will be assumed that a client makes 2 requests per month.
2. It implies that each pro attends a request client per month on average
3. I define that the services provided by Acme Inc are distributed in a proportion of voice (60%), writing (40%) and translations (40%), this implies that the storage requirements for the deliverable for one year would be.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Size file |  | Category | Proportion | 3000 Petitions | Total GB per month |  |
| 1,6 | 1,6MB | Voice | 0,6 | 1800 | 2,81 |  |
| 1 | 1MB | Translate | 0,2 | 600 | 0,59 |  |
| 1 | 1MB | Writing | 0,2 | 600 | 0,59 |  |
|  |  |  |  |  | Total GB per month | Total GB per year |
|  |  |  |  |  | 3,98 | 47,81 |

1. The times a user uses the platform is unknown. But you can determine 1,000 daily transactions (access, review of information, trace on jobs and others), this gives us less than one transaction per second.
2. There is no connection specified with external systems, such as payment systems, mail servers or others. It is assumed that system notifications are generated by email and there are some external connections that increase the complexity of the system.

**Software architecture**

A 3-layer application is defined, the layers are:

Home Site: This application shows the information of the company, of the services and allows the records of the different external users as clients and pros. It will be outside the scope of business logic and will be the gateway to microsites.

The application layer and / or business logic will be composed of the microsites of the types of users where they will see the relevant information and the workflow engine that determines the processes of creation, modification, review, delivery and audit of the requests that it makes a client. The client request is the primary element of the platform and based on the different states that are in the platform will allow access to each of the users. This must be based on a BPM.

The data layer, composed of a relational database that supports the information of users, requests and workflows. Also, there is a file server where the files reside for review or for final delivery of the client.

**Physical architecture**

An important channel is needed for the transmission of data, especially the files that are delivered to the client.

There must be a DRP, this will be an exact replica of the model in production and will be configured in FailOver.

All the architecture can be implemented in the cloud and the micro applications will be established as separate containers.

