

Case Study: eFax Solution

A custom eFaxing solution to send customized fax from email to fax machine and fax machine to email.



PixelRiver
Technologies

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PixelRiver Technologies

PixelRiver Technologies is the company working since 2006 in the USA. The company has been serving IT professionals of Garden City, Bethpage and Syosset with their reliable and professional IT services. The company has more than 10 professional IT services to be offered to its clients and VoIP service is one of the services it offers.

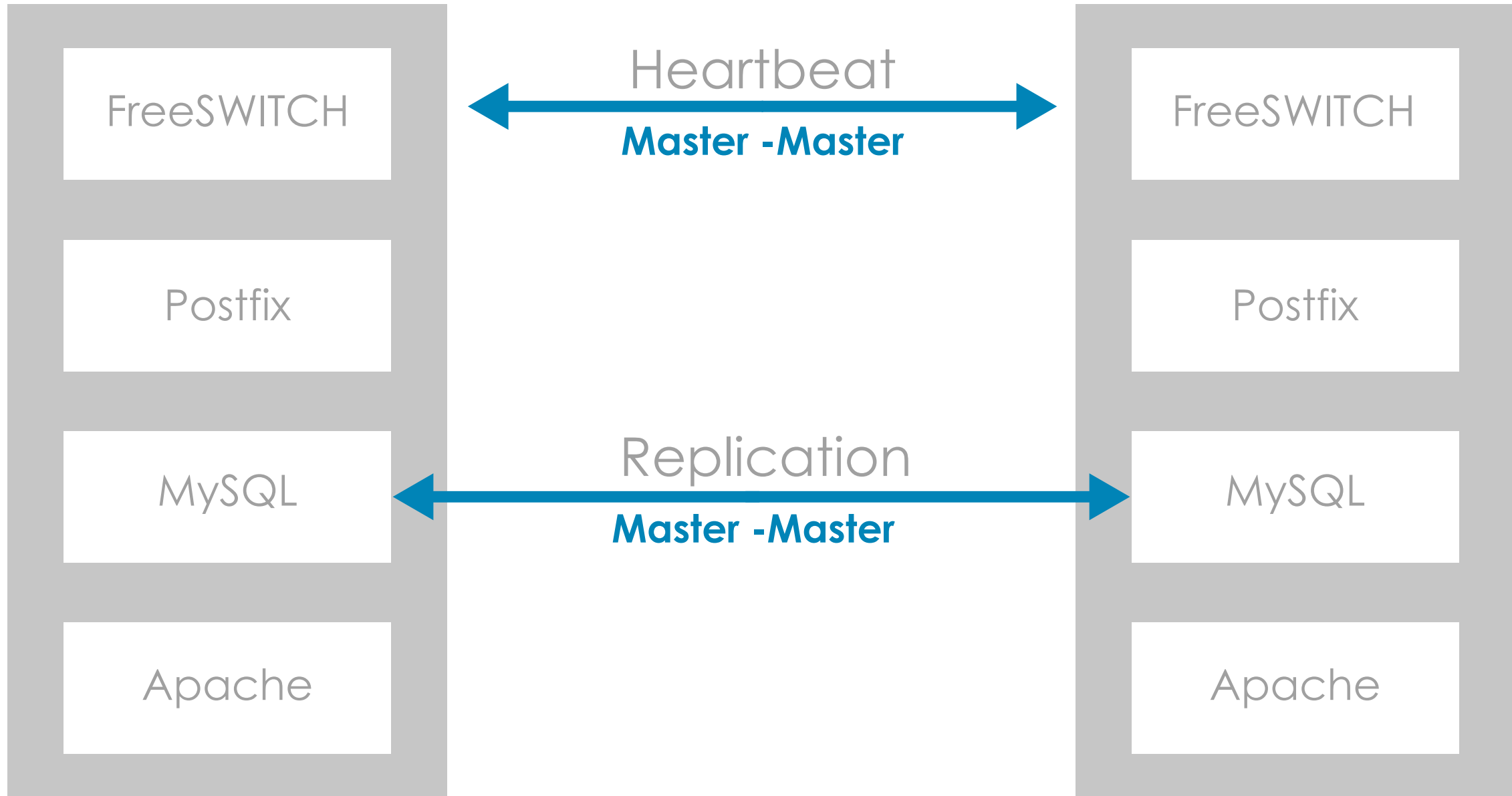
The Challenge

PixelRiver Technologies has been offering professional services to their clients and they wanted to expand their business by adding a new service in this range, namely, eFax Services. The IT professionals are the target audience of the company and they often need the efaxing services for their routine official tasks. The PixelRiver wanted to cater this need of their customers and thus wanted to get a customized eFax solution with specific features.

Solution Provided by Ecosmob:

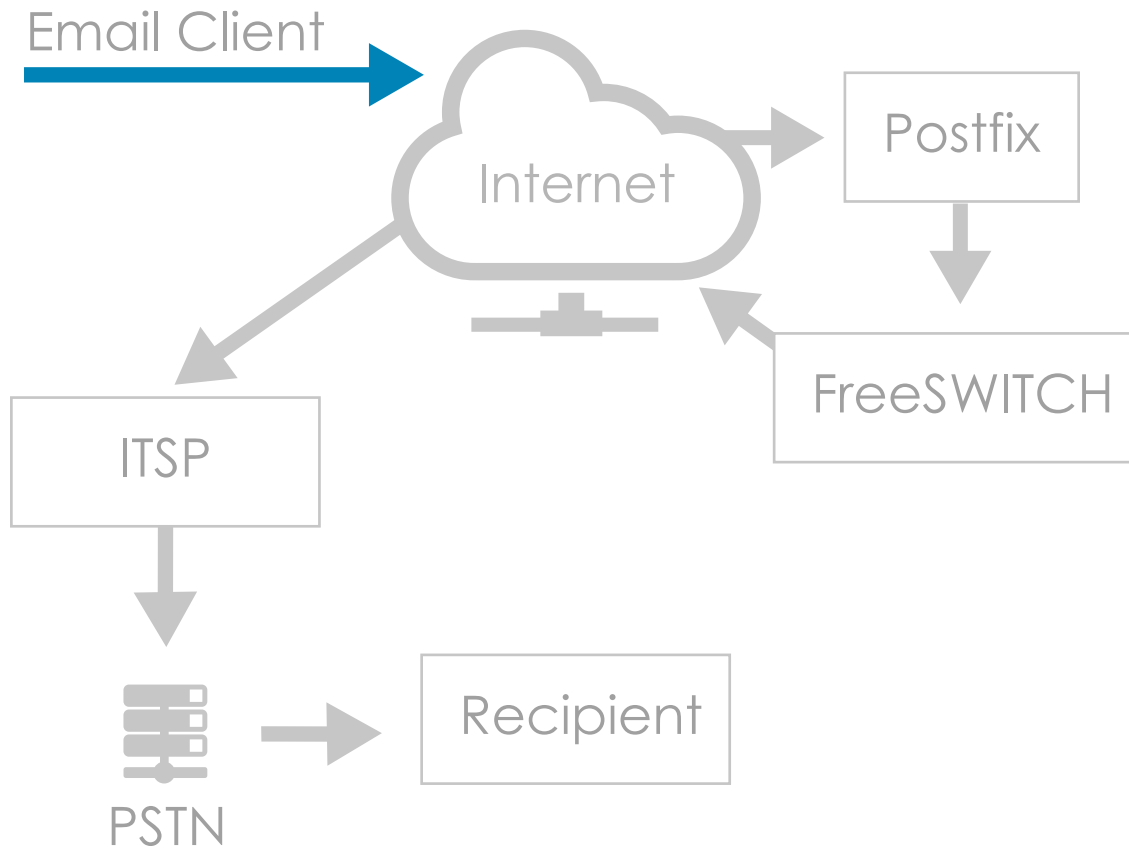
1. Our team discussed the basic need and the agenda of the system they wanted us to get developed. Based on their answers, our team given them various suggestions over possible features, tools, platform, etc. The client appreciated the suggestions offered by our team and defined the scope of work.
2. Once the work scope was finalized our **Project Manager** took over the responsibility for developing the required and expected eFax solution with the customized eFaxing features required by the clients.

Fax Server » Server Architecture

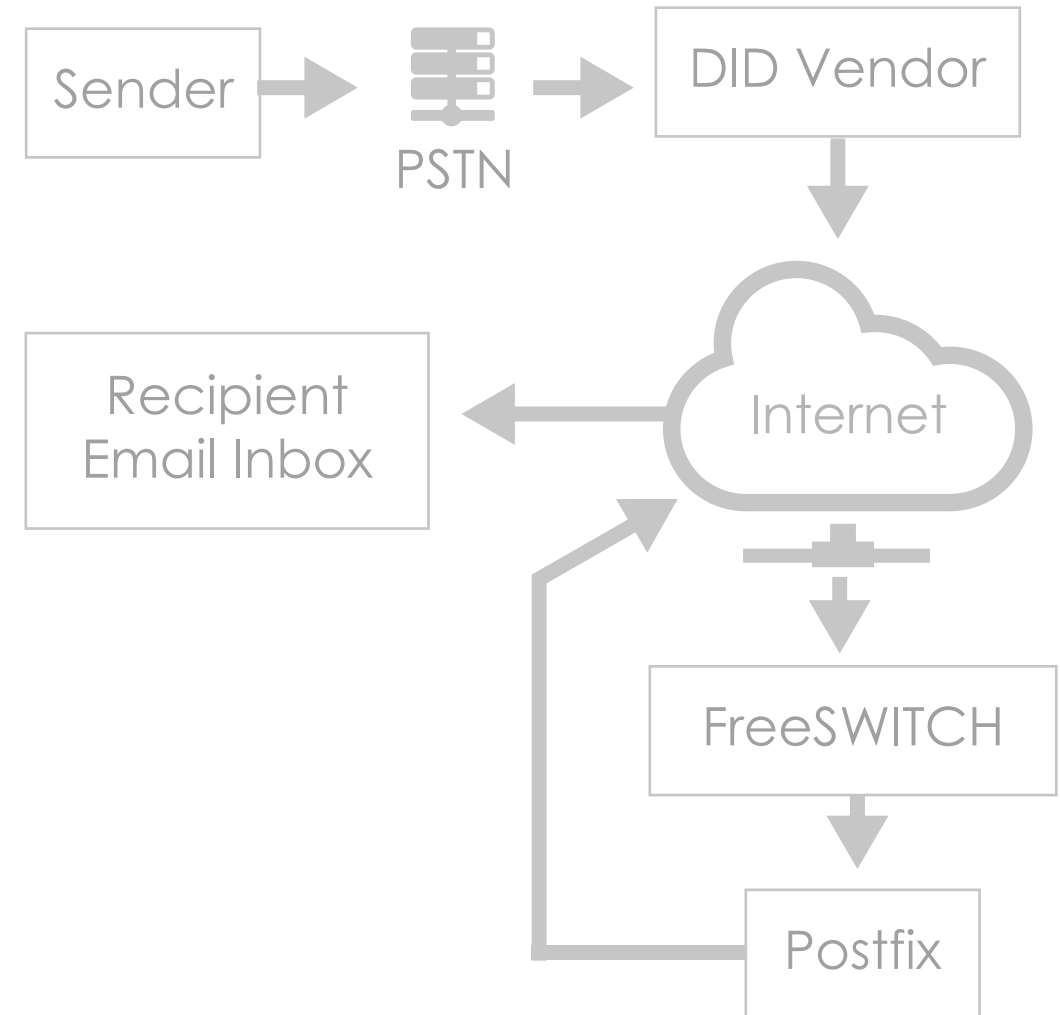


System Flow

Email to Fax



Fax to Email



- **Key features of delivered solution are listed below:**
 - Email to Fax
 - Fax to Email
 - Support for password protected pdf attachments while sending a Fax using Email to Fax or while receiving Fax using Fax to Email. Which will keep the content secured while email communication.
 - Multi-tenant support
 - Support for Cover page
 - Fax detailed Logging
- 3. Our VoIP Development team developed whole backup using FreeSWITCH and related VoIP technologies and scripts. The team also implemented the security mechanism for ensuring the protected transmission of crucial official documents. To achieve this level of security, our team integrated functionality of password protected PDF so it can't be hacked or misused.

4. Our front end development team used PHP and Shell Scripting with the help of our designer to develop easy to use and manage the admin panel. We have developed a web based admin panel, which can be used and accessed from anywhere.
5. The Testing and Quality Assurance Team runs various tests on the system, including functional and nonfunctional testing to ensure bug free system delivery.
6. Our team deployed the whole system in the client's environment and made sure to give required training and support so the system can be utilized at its best.

Tools and Technologies Used in Development:

- FreeSWITCH
- MySQL Database Server
- Postfix Email Server
- Apache Web Server
- PHP and Shell Scripting

Result Obtained:

A complete running and as per the user expectation eFax solution developed and deployed on client's premises. The client has added the eFaxing services in their service area and catering the need of his customers with our developed solution.