# Streamlining the Network Infrastructure of a Top Paper Manufacturing Company for Undisrupted Functioning.

The problem with IP addresses is recurring for every big and small organization. Like networking issues, IP conflicts disrupt connectivity and stall ongoing projects. It is essential to keep the network bandwidth under control. Isolation and configuration of the devices facing conflicts work as a reliable solution.

Troubleshooting of the entire servers strengthens the business infrastructure. Choosing a non-conflicting address eliminates the problem linked to static IP configuration. For trouble with the DHCP server, it needs a workaround to optimize server performance.

The leading paper manufacturers company producing premium quality paper for various clients. Their operations are in an integrated pulp and paper board mill, combining raw materials and the latest technology. Committed to excellence, they ensure to deliver the best paper products in the market. The company abides by environmental regulations and are eco-friendly in their approach.

The company has a large production unit that operates 24*7. However, serious network hindrances almost put brakes on their business. The servers were running on a non-recommended IP address while the company database was reliant on the 12c version.

Issues like slow network speed and a failing wireless connection led to repeated errors and loss. Overall, they lacked the best methods to overcome infrastructural issues. A reliable, upgraded, and well-functioning server could help them continue production. This is why they partnered with Doyensys to find a quick solution to this problem.

This massive collaboration profited the company with agile business solutions. They received excellent technical support

from professionals. The experts provided them with an infrastructure that put their business on track. With seamless migration, they continued their operations with minor networking troubles.

## Objective :

The project's objective indicates that when server problems are handled efficiently can help businesses grow in manifold ways. Proper server functioning required version upgrades of Oracle and new fusion implementations. To achieve it, the client stated the following project requisites.

- Tuning the forms and reports to leverage the SPBL OS resources automatically
- Facilitate IP address changes for the OVM, virtual machines, and the physical servers
- Execute the upgrades from 12c to 19c to streamline database management
- Perform one fusion middleware cloning from PROD to TEST
- Schedule backups as per the core business needs
- Create a robust standby database for configurable workflow

## Problem Statement :

In the initial stages, the client did not have a robust system to manage their network infrastructure. The servers got stuck during vital business time. Phishing and malware attacks were on the rise, which created serious productivity issues.

A lag in the overall workflow impacted the creation of forms and reports. Additionally, their database version would lose premium support and derange the operations.

## Challenges :

The major challenge related to this project was to minimize the downtime in operations. The professionals attempted to do this, keeping in mind other core aspects of the business. Since different departments were at play, reviving their operations from the midst of a networking hitch was not easy. Only detailed planning could resolve the problem and prevent other blunders from happening.

At Doyensys, the experts believed in the same. For adopting constructive business practices, it was essential to sit in a detailed discussion with the client. This way, they formulated a phase-by-phase planning routine to overcome unforeseen circumstances.

An excellent solution was parallel database upgrades and activities which saved vital business time. Technical planning compensated for the lost time and pushed for more product delivery.

The entire database upgrade schedule was completed in less than 5 hours, even after utilizing fewer system resources. All this had to be done in compliance with standard procedures. The professionals also checked if this solution aligned with the complex business needs and demands.

## Solutions :

For the company networking system to run untroubled, Doyensys proposed the following strategies to the client.

> ▶ For forms and reports, integral performance tuning can prove to be a saving gig. Even if the network faces high traffic, doing tasks or downloading large files can be

possible. Multiple departments could work simultaneously on the network without any hindrance. It can resolve network conflicts and IP address problems.

> ▶ Capacity planning based on the Client Infrastructure can rectify network conflicts and IP address problems. It can enrich the knowledge repository of the company with guaranteed gains in production. The streamlined workflow can reduce errors in manufacturing and supply chain systems.

> ▶ Infrastructure solutions with the introduction of agile methods could be done in shorter time frames. The business solutions are efficient in managing databases with no network/server lags.

> ▶ Critical database approach can support end to end streamlining of operations

> ▶ Designing database upgrades with cloud technology can make the system more effective

## Results :

The database support and upgraded services offered by Doyensys simplified the business processes to a large extent. The management of overall workflow was possible by modulating the critical performance of the forms and reports.

The streamlining of the server infrastructure leveraged production. Moreover, the database gained back its premier support with the embedding of 19c DB features. The company is satisfied with the results and can address any errors on time.

The success of this project was the artistry of one project manager, one project lead, and two juniors. The solutions offered modified their business operations and created a major difference by uplifting company gains. Hence, the client has praised the technical assistance, which rectified the network issues in no time.

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