# **Group Project: Project Proposal**

**Group - 8**

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**Patchworks - Case Study to Cloud Migration Proposal**

**Proposal Summary:**

The following page is a proposal of how Patchworks plans to migrate the operation of the firm to the cloud with the assistance of AWS. The aim of this migration is to maintain the reliability, scalability, and continuous high performance of Patchworks’ operations. Therefore, the effect is a multiplicity of customer orders: increased frequency of customer orders and response time having been lowered to almost zero, implying business progression and optimum business functioning.

**Background Information/Introduction to the Organization Case Study**

Patchworks is a company established in 2014 with headquarters in Poland, which provides ISV solutions in connecting back-end systems to e-commerce storefronts. A form of diversification is the company’s international and diversified clients that include Europe, North America, and Asia-Pacific. This therefore places it in a good stand to record everlasting long-run growths. The requirements for the shift to the cloud will compel the formulation of strategy of the firm to aid this process as well as enhance operational effectiveness. The on-premises infrastructure currently in use has revealed its inadequacy in handling a high number of orders particularly during the end of a fiscal year or during festive seasons. It makes the operations less efficient and might lead to lost revenues.

**Problem Statement:**

Patchworks completes a fairly large number of orders with minimal interruptions to the flow, which is especially important during the high demand for gifts. The current infrastructure has inadequate skills to address such requirements and they cause operational constraints in the process hence a possibility of losing revenues. Migrating into the cloud-based solution, in this case, becomes essential in addressing such challenges, in order to enhance the reliability and scalability of Patchworks’ performance.

**Goals and Objectives:**

This project shall have an impact on Patchworks as an organization in the area of accuracy, scalability rate, and organizational structure since it will make structures at Patchwork cloud-based. Specific objectives, which are SMART, are:

* Completing **24 million orders on Black Friday**, which is the maximum purchasing period related to the uninterrupted business processes and the enhancement of the possible business income to the maximum extent.
* Reduction of the response time from **900ms to 8ms** to enhance effectiveness and in turn, the satisfaction of the customers to offer improved services.
* In the case of customer orders, the corresponding target is to increase them by 31%, which is business growth’s percent as well as the market.

**Key Project Activities:**

The cloud migration project activities cover a comprehensive approach, which includes:

* Being aware that the AWS Migration Acceleration Program is famous for a fast migration with Map Lite, join it. This fastens the Migration activities as AWS is in a position to undertake the strength and experience to help the transition.
* Make sure that the company affects the migration to AWS so that operations are not in one huddle as the public is likely to demand the company’s products before Black Friday.
* This brings a concept of inventing new native functionalities on AWS that enhance organizational efficiency because of the delivery of cloud-based characteristics such as elasticity and high performers.

**Project Methods and Designs:**

The methods and design applied in the project are highlighted in this project and it includes the following topics: This Aws map lite will trigger the migration that will assist patchworks to make good progress added to efficiency, direction, and precision in the migration process. Thus, it is postulated that this better position together is going to provide horizontal scalability for managing high order volumes and for creating real growth in business in addition to operational efficiency based on AWS’s strong strengths.

**Challenges of the Migration:**

The main obstacle that has to be overcome in this migration is the deadline associated with Black Friday. Patchworks has to finish the process of migration to AWS and increase the activity level for processing 24 million orders within a certain time frame. Besides, the traditional pressure due to time-to-market, numerous technical, logistic, and organizational factors come up when it comes to data migration, application portability, organizational change readiness, and many more that need to be managed and addressed for any smooth and successful migration.

**Success Measures/Advantages** **of Cloud Migration:**

The success of this project will doubtless be measured by specific metrics it achieves, including:

For example, it is quite feasible that this project would be expected to deliver on some stipulated parameters that are usually defined in an organization and so on.

* The characteristics that enabled to bring 24 million. Regarding the orders during Black Friday and to ensure that the company is stable in sustaining what they promise and keeps on managing the business during the peak concern.
* With Apex’s help, the 900ms response time was cut down to 8ms customers are more satisfied with the service and providers are more productive.
* Customer orders stood at 31% higher and this means that Patchworks got business development as well as market penetration.

This paper’s entire suggestion of the Patchworks cloud migration plan contains strategies and implementation that address the operational challenges of the firm and fuel its growth. Equipped with the powers of AWS and SMART-driven goal setting, the successful performance and experience of Patchworks will inflict critical enhancements in the sphere of reliability, scalability, and performance with stability in customers’ experience and continuous growth of the business. This migration plan is consistent with Patchwork's vision to establish operational efficiency and to advance the strategy of market development indefinitely, consequently attaining constant effectiveness in the ever-shifting industry of software.

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