

# Atlantis Introduction

## Intent

The Atlantis project encapsulates the next-gen architecture and UI/UX redesign for the Rubex application. The goal of this project is to improve the user experience, feature adoption, performance, maintainability, scalability, and extensibility of the Rubex application/platform.

The changes we will be making include:

- Moving from a monolithic web application to a **separated front-end/back-end API-driven architecture using microservices**, *which will drive enhanced scalability, maintainability and performance*
- Moving from an Infrastructure as a Service (IaaS) cloud model to a **Platform as a Service (PaaS) model**, *which will drive enhanced scalability and extensibility*
- Moving to a more **modern front-end development language/platform (React)** with a **new comprehensive UI/UX redesign**, *which will drive a better user experience and increased feature adoption across the application*

## Cloud Model

To begin the discussion of our cloud strategy, we wanted to come together and agree on some basic principles we could use as a foundation. We discussed the differences between an Infrastructure as a Service model and a Platform as a Service model.

The slides we put together for the discussion can be found here: [Next-Gen Architecture](#)

We aligned on our path forward of moving to a **PaaS cloud model**. A high-level diagram of the next-gen architecture with data flow is below:

[image-1658330587652.png](#)

---

Revision #7

Created 20 July 2022 13:55:48 by Bryce Holloway

Updated 1 November 2022 19:50:54 by Bryce Holloway