

# RabbitMQ Infrastructure Prototype

## Abstract

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## Abstract

Message brokers have always been a critical part of many infrastructures. This architectural pattern allows for easy to horizontally scale and reliable networks. The goal of this project is to make a network infrastructure which uses a messaging system through a message broker (RabbitMQ). My additional personal requirement is to use the Rust programming language as much as possible and bleeding edge technology.

## Execution

This project has been built using bleeding edge technology. The Rust programming language is used extensively. Every software developed, including the website, is based on a Rust codebase. The creation of the network topology is eased by the use of Vagrant. MariaDB and NginX are also used.

## Results

The goal of the project was reached and the requirements were met. The project gave me the opportunity to gain a more deep understanding of the Rust programming language. I am kind of unhappy with how the project itself turned out; there are lots of things that I could have done better. I hated that fact that the infrastructure is, by design, inherently suboptimal, though still desirable to learn about message brokers and such designs. The application itself is not especially exciting but rather kind of boring and trivial, but I managed to make it more interesting by using the technologies that I chose.