

Report Group 2

January 2020

Abstract

Report text

Contents

| | | |
|---|-----------------------------|---|
| 1 | Introduction | 2 |
| 2 | Preliminaries | 2 |
| 3 | Technical Description | 2 |
| 4 | Related Work and Discussion | 2 |
| 5 | References | 2 |

1 Introduction

The purpose of this project has been to develop a chat application that allows its users to automate in- and outbound messages, through user uploaded scripts written in the service oriented programming language, Jolie, while maintaining security.

The underlying infrastructure of the application itself has been built as a micro-service architecture with the goal of affording developers greater atonomy and agility in the limited scope that they are responsible for.

The choice of a micro-service architecture also helps another key goal, namely good horizontal scalability; we have utilized the venerable container orchestration framework, Kubernetes to facilitate this. Every service is containerized using Docker, and managed as pods in Kubernetes.

2 Preliminaries

3 Technical Description

4 Related Work and Discussion

5 References