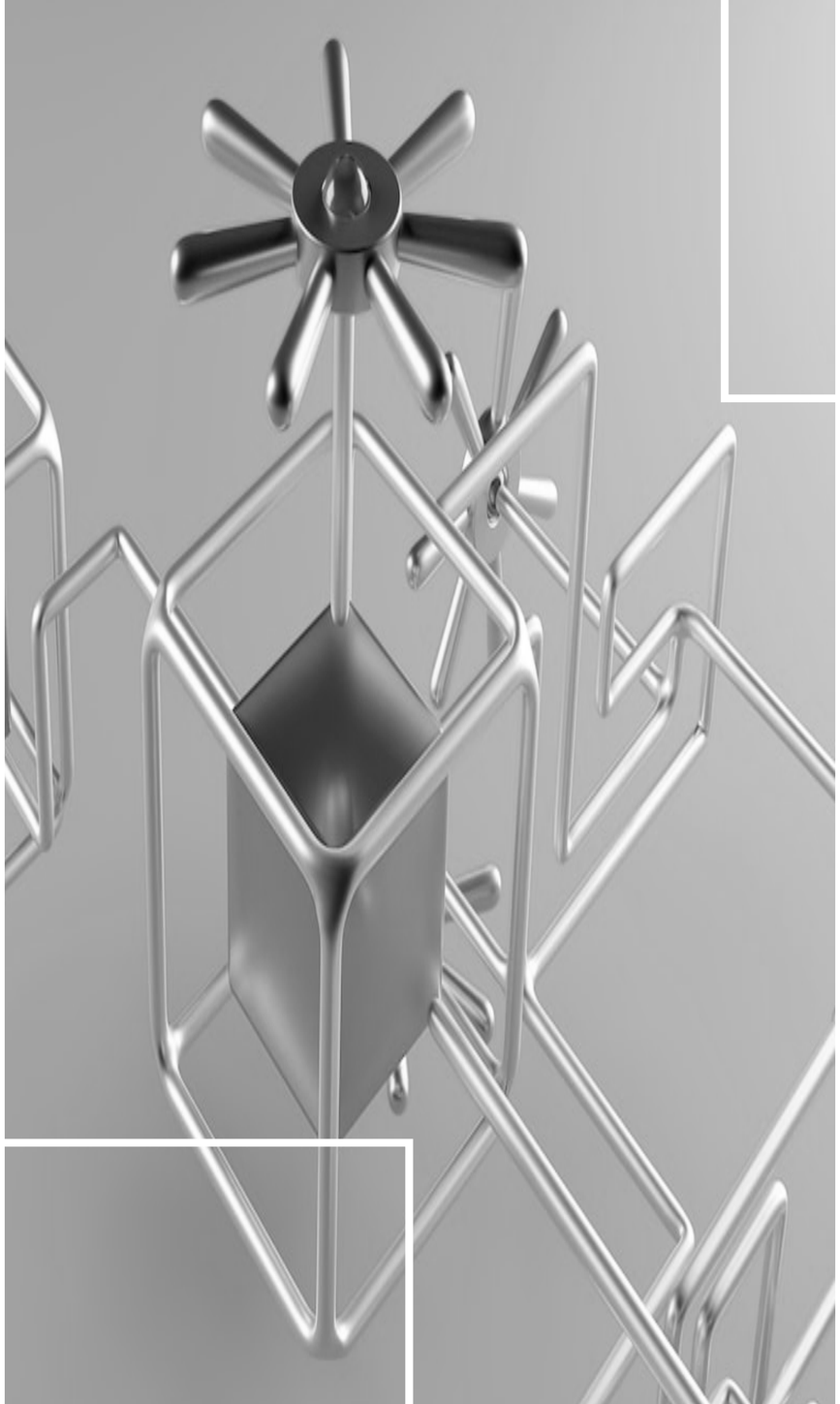
MICROSERVICE ARCHITECTURE USING EUREKA AND ZUUL GATEWAY

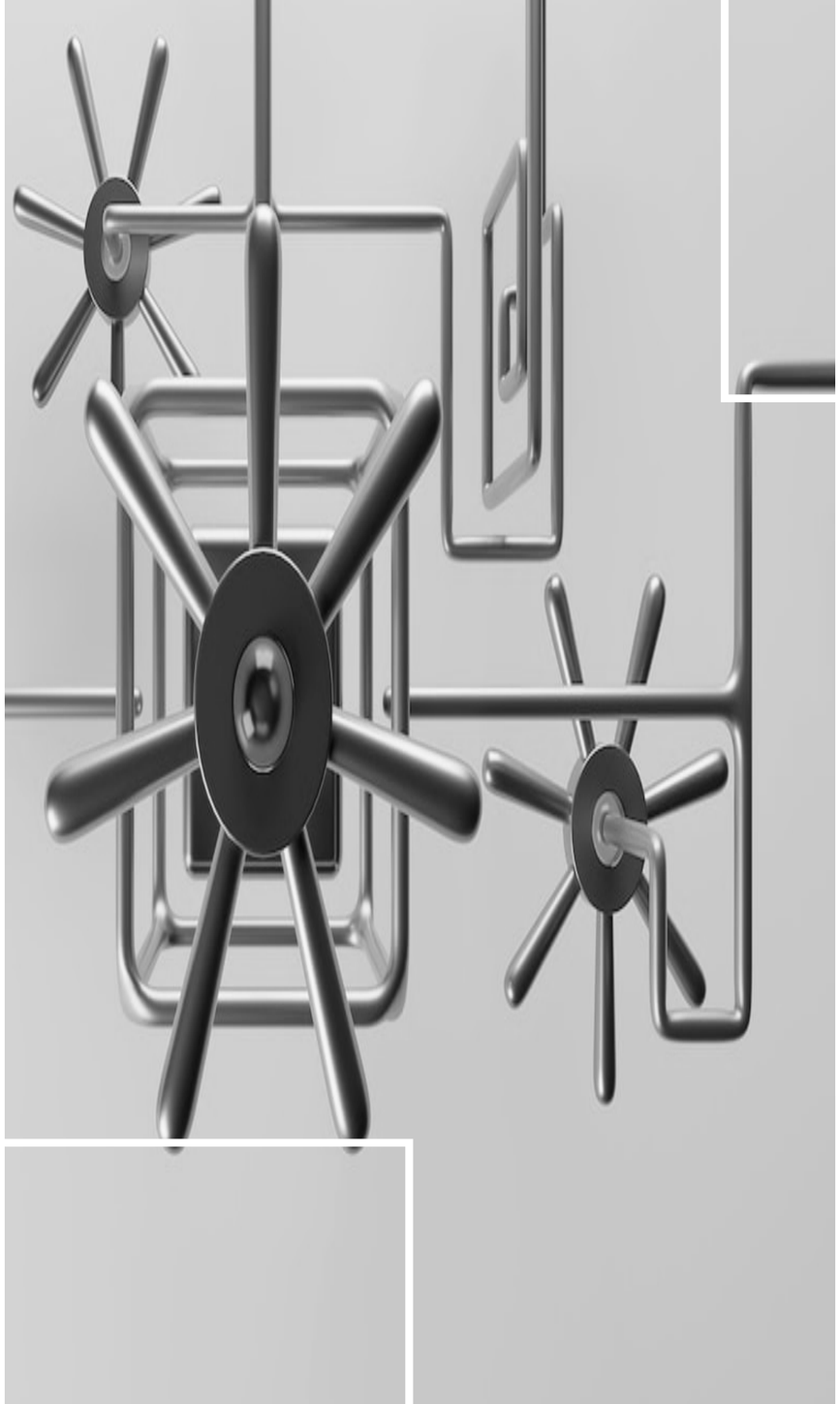
• INTRODUCTION

Microservices architectures are becoming increasingly important in modern applications, and Eureka and Zuul gateways can provide the tools necessary to support them. In this presentation, I will provide an overview of what microservices architectures are, how they can be implemented using Eureka and the Zuul gateway, and their various advantages.



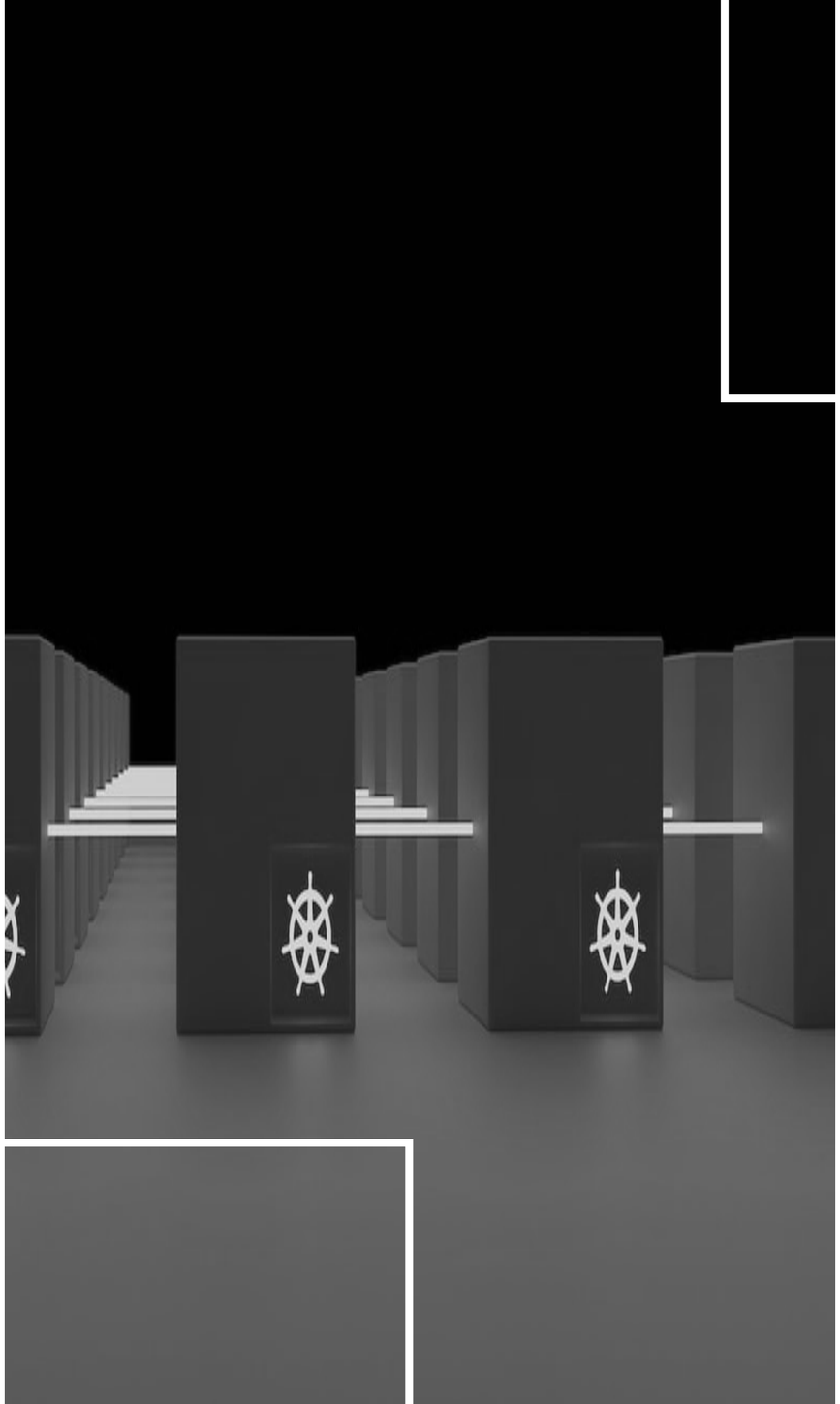
• WHAT IS A MICROSERVICE?

A Microservice is a methodology of software development, in which an application is built as a collection of smaller, independent services. Each service has its own business logic, and they can be independently scaled and deployed. This makes them highly flexible and allows them to adapt quickly to changing business requirements.



• WHAT IS EUREKA?

Eureka is a service discovery tool, developed by Netflix. It allows services to register themselves and other services to discover them. This makes the service-to-service communication more reliable and efficient. Eureka also ensures that all the services registered with it are functioning properly and will send notifications if it detects any failure.

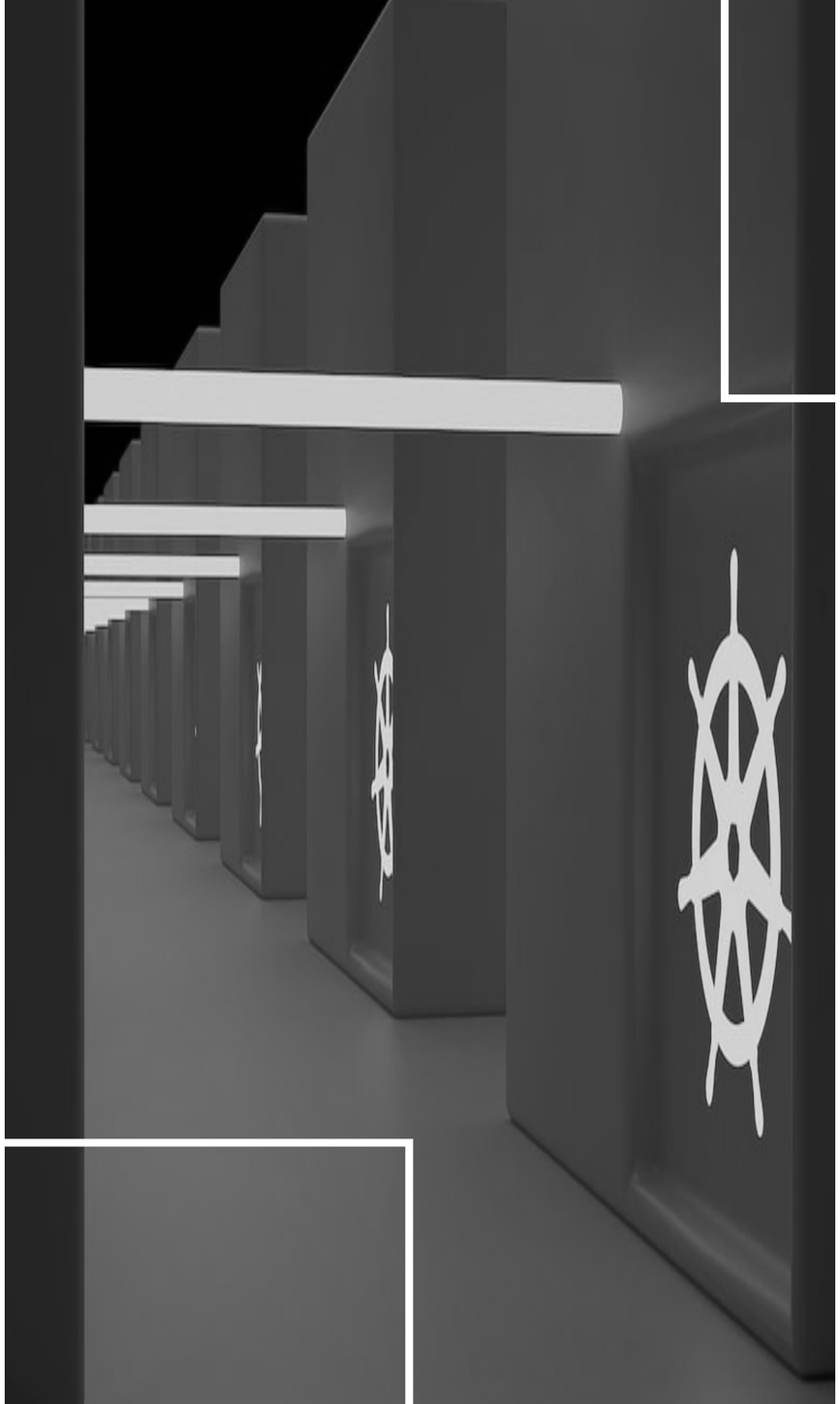


• WHAT IS A ZUUL GATEWAY?

Zuul gateway is a routing service which helps to take traffic from clients and forward it to various services. It acts as a single entry point, allowing user to get consolidated response from all the backend services. It also offers features like server side load balancing, security and monitoring.

• SETTING UP EUREKA AND ZUUL GATEWAY

Microservice architecture using Eureka and Zuul gateway, can be setup easily in few steps. Eureka server provides as a discovery server, where Zuul gateway ensures all requests go through only one entry point, helping to maintain security. Setting up these services make sure that your application is scalable and resilient.



• CONCLUSION

Conclusion

By using microservice and Eureka service, application can be made more scalable and secure. Zuul gateway takes care of all the requests going through a single entry point. Using this gateway, we can monitor, maintain and debug the application with ease.