

Service Mesh: A Simple Survey

Abstract—Microservice architecture is widely used by Internet companies nowadays. It is designed for the complex services. Developers can easily deploy and manage a single service. However, it also raise the complexity of the whole system, which makes the communication components between services bloated. Service mesh is introduced to improve the management of the large amounts of microservices. Regardless of the design and implement of the single service, service mesh can work directly on the container of the service with the help of container technology, e.g. Docker. In addition to manage the network communication, service mesh also have the various abilities, e.g., service registration and service discovery, of the traditional microservices architecture. We present this paper to make a simple survey on service mesh, to introduce its history and applications. Besides, we concretely introduce a popular architecture, Istio, to help better understand the principle of service mesh. [1]

Index Terms—Microservices, Service Mesh, Service Oriented Architecture

I. INTRODUCTION

[1]

II. SERVICE MESH

III. ISTIO

IV. APPLICATIONS

V. CONCLUSION

REFERENCES

- [1] W. Li, Y. Lemieux, J. Gao, Z. Zhao, and Y. Han, "Service mesh: Challenges, state of the art, and future research opportunities," in *2019 IEEE International Conference on Service-Oriented System Engineering (SOSE)*. IEEE, 2019, pp. 122–1225.