

Final Submission for GSoC 2023

Apache EventMesh - EventBridge

About Me

BASIC **English Name:** Yixiang Zhao
Chinese Name: 赵奕翔

INFORMATION **Email:** seriouszyx@gmail.com
Github: [seriouszyx](https://github.com/seriouszyx)

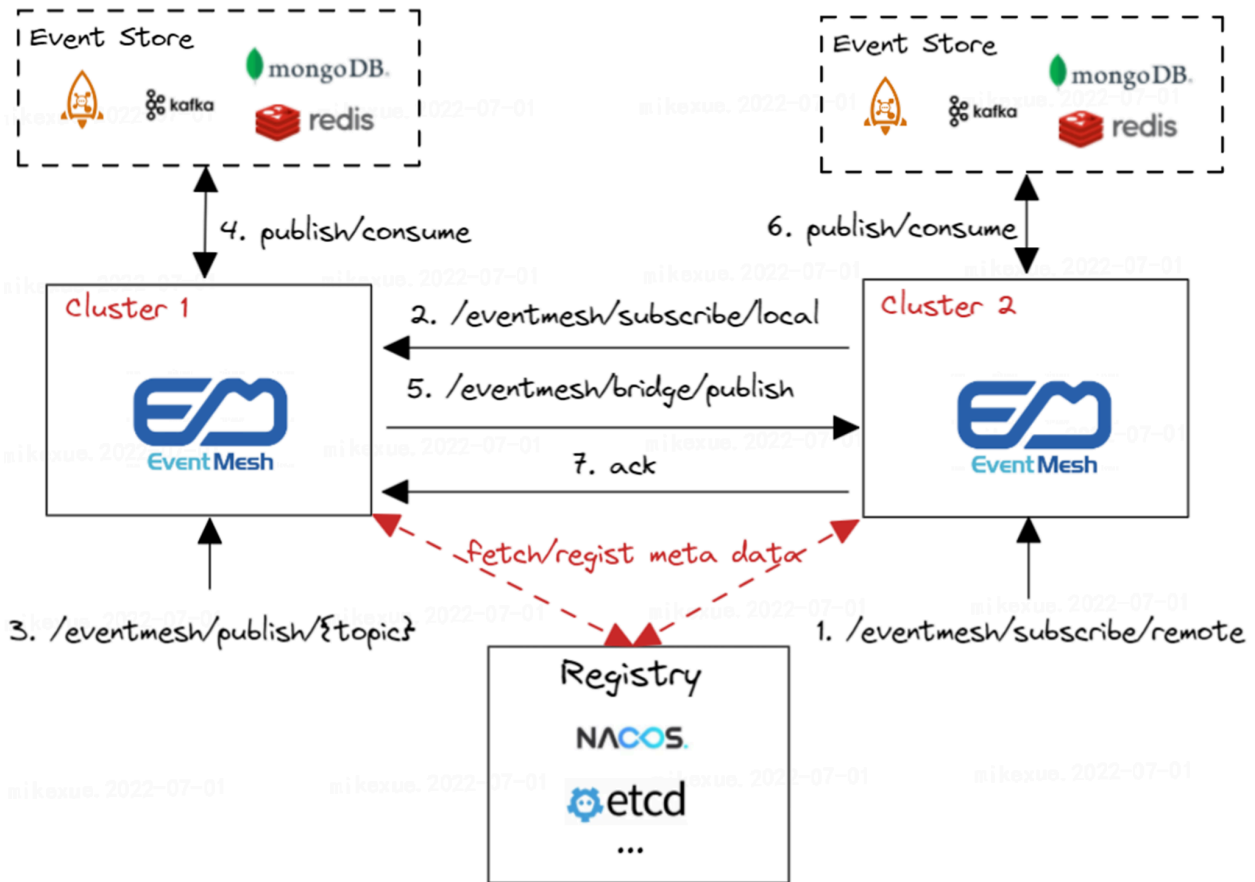
EDUCATION **University of the Chinese Academy of Sciences**, Beijing, China
Cyberspace Security, expected graduation July 2024

PROJECT **Link:** [EventBridge](#)
Mentor: Eason Chen, Mike Xue

Project

Abstract

Through eventmesh's event bridge feature, we can connect data to heterogeneous data storage, we hope that the community can optimize the current eventbridge capability of EventMesh to realize the data connection of different event stores. We should verify the ability of different EventMesh cluster instances to synchronize data, sort out the corresponding verification step documents, and optimize the current EventMesh bridge features.

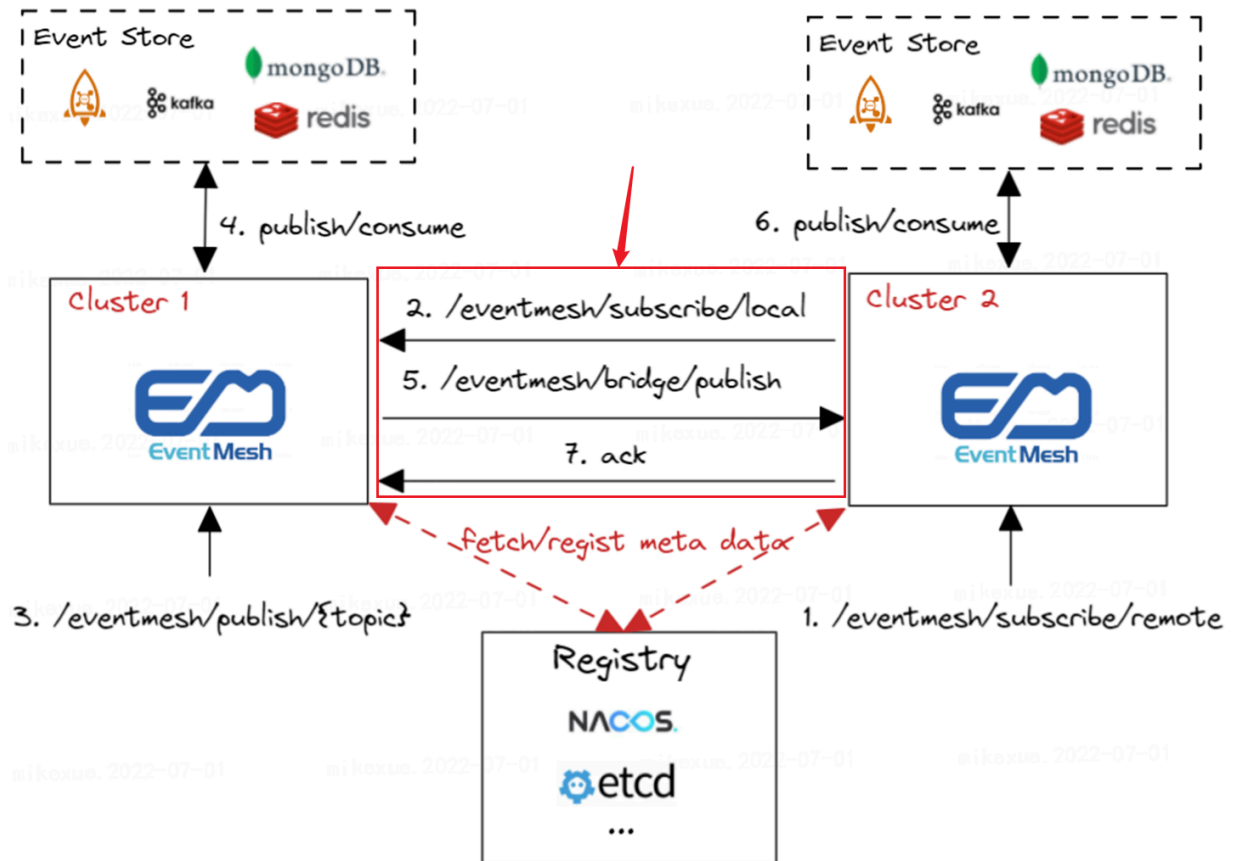


Contributions during GSoC '23

Use QUIC instead of HTTP

The QUIC protocol is gradually being used by various systems, leading to significant performance improvements. The features of QUIC protocol are independent logical streams, consistent security, low latency, and reliability. We therefore use the QUIC protocol to optimize the performance of Eventbridge.

We used the official netty provided [netty-codec-quic](#) for this. In particular, we reimplemented several of the processes in the box.



Provide Event-bridge example

The original official documentation provided URLs and request parameters for event bridge operations, which made it more difficult for newcomers to use.

Out-of-the-box example codes are provided to allow newcomers to use the feature by simply executing the code.

Acknowledgment

I'd like to thank Google for organizing such an amazing program for us and that it did create an impact on my immediate surroundings and peers to participate and contribute to open source.

Apart from that, I'd like to thank my mentor Eason Chen and Mike Xue for their constant support and guidance.

This was a great experience for me! I learned a lot about software engineering and sharpen my skills through this opportunity. Look forward to contributing more to open source.