

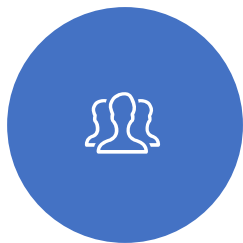
Apache EventMesh : 事件驱动分布式多运行时

演讲人: 薛炜明



- 社区简介
- 议题内容
- 规划发展

open mind
open/free shar
open company source cod
free software git global
github communit
social coding chat speak
communication cloud com
program language mobile pl
technology Big D
information technology
wireless network
AI



社区简介

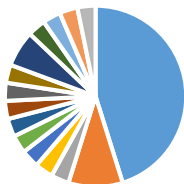
社区

- Accept by Apache incubator at 2021.2

薛炜明

- 微众银行中间件研发工程师
- PPMC of Apache EventMesh

Contributors



| | | |
|-----------------------|-----------|----------------------|
| ■ WeBank | ■ Alibaba | ■ eBay |
| ■ Oppo | ■ JD | ■ Huawei |
| ■ Minsheng Bank | ■ citi | ■ PerfMa |
| ■ Tsinghua University | ■ Umich | ■ Dongnan University |
| ■ csii | ■ navinfo | ■ Yunhorn Technology |



议题内容

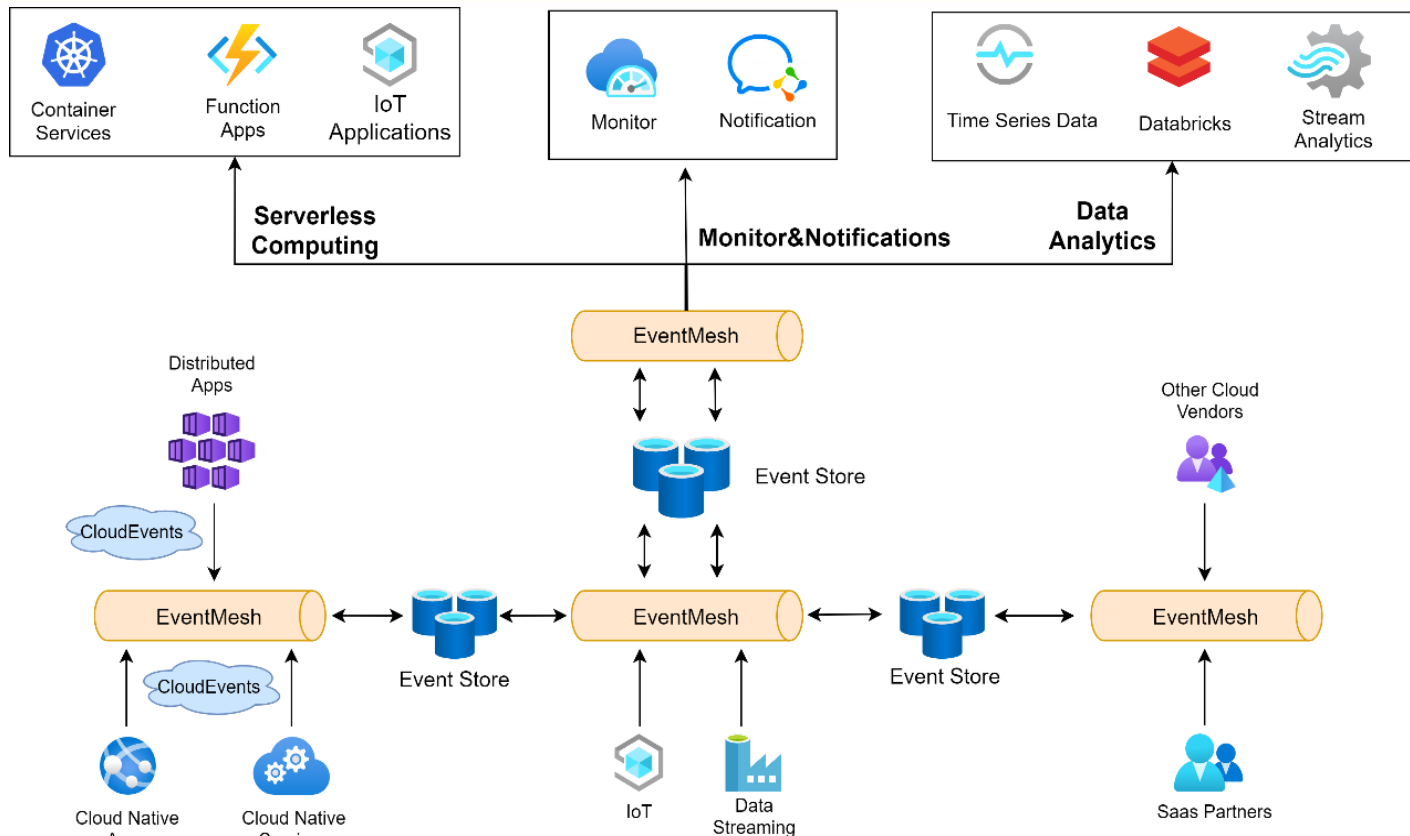
什么是EventMesh

| • Business Logic | | Polyglot |
|---|--|---------------------|
| <ul style="list-style-type: none">• Scaling• Event Binding• Orchestration | <ul style="list-style-type: none">• Connectors/Adapters• State Abstraction• Distributed Primitives | Apache EventMesh |
| <ul style="list-style-type: none">• Traffic Routing• Network Resilience | <ul style="list-style-type: none">• Observability• Policy Enforcement | Envoy |
| <ul style="list-style-type: none">• Scheduling• Deployment | <ul style="list-style-type: none">• Configuration• Resource Management | K8S |

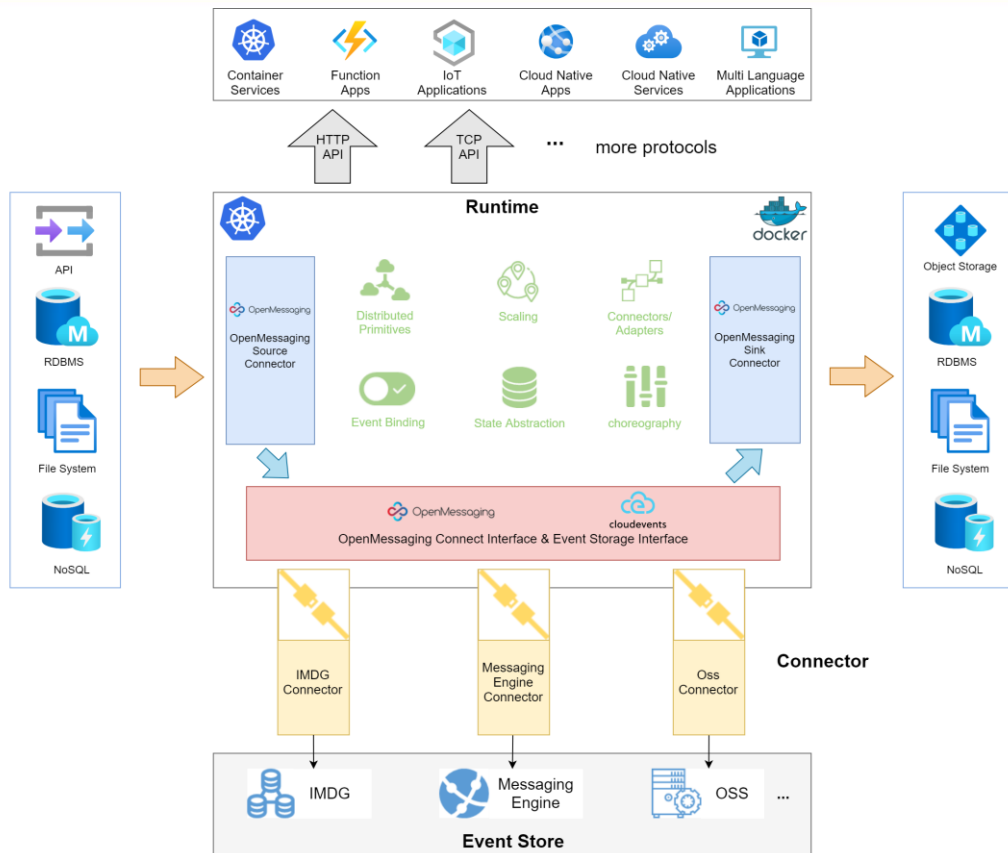
EDA + Multi-runtime

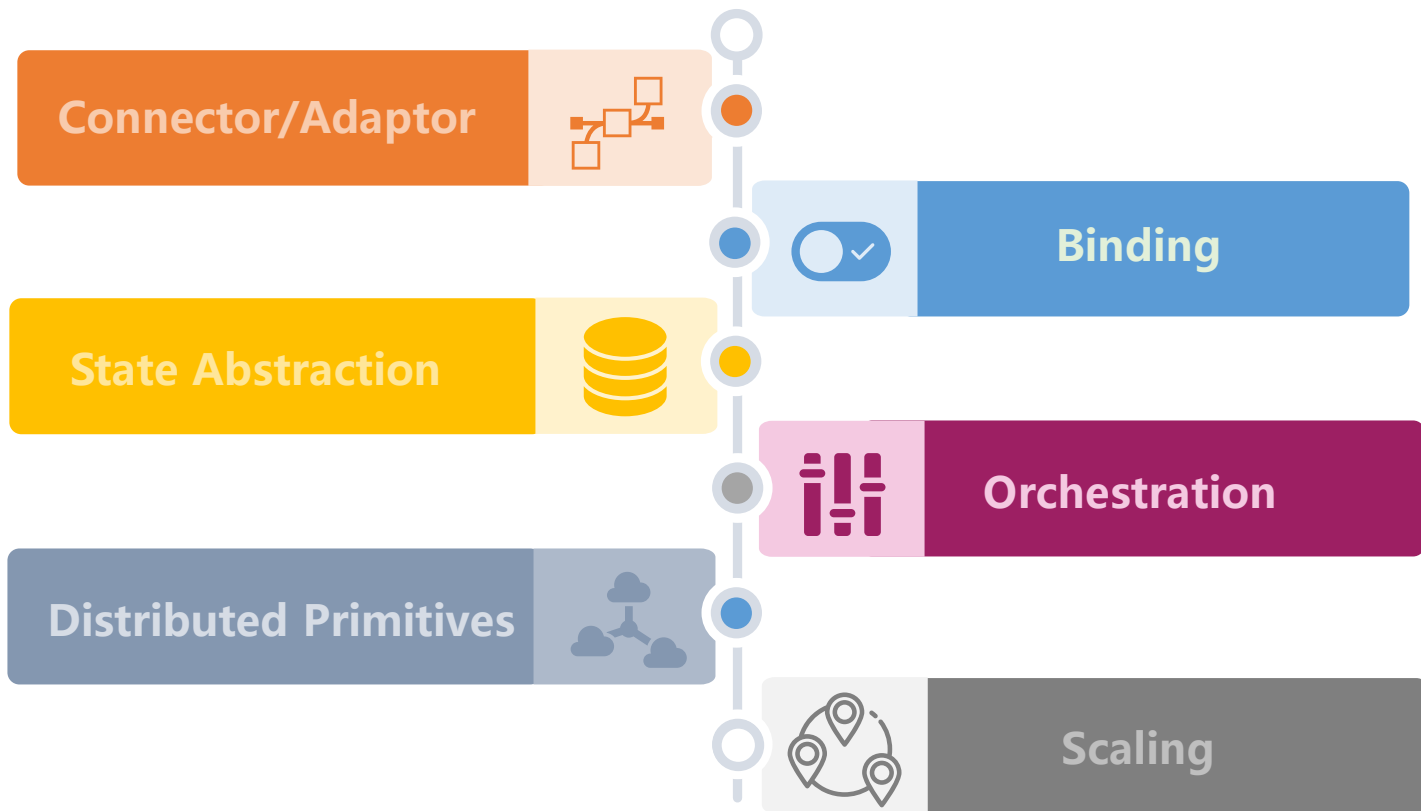
- 降低应用程序之间的耦合度，提高系统的灵活性
- 应用程序之间的通过异步事件或流处理的方式，使用发布/订阅模型，满足实时性的需求
- 支持通过CloudEvents/gRPC等多协议轻量接入，多语言访问，降低交互的复杂性，提高系统在不同业务环境下的兼容性和连通性
- 集成多种云上应用与服务(Docker\Micro Service\Service Mesh\IoT\Function API e.g.)，扩展多个站点和管理域系统的处理能力

EventMesh生态

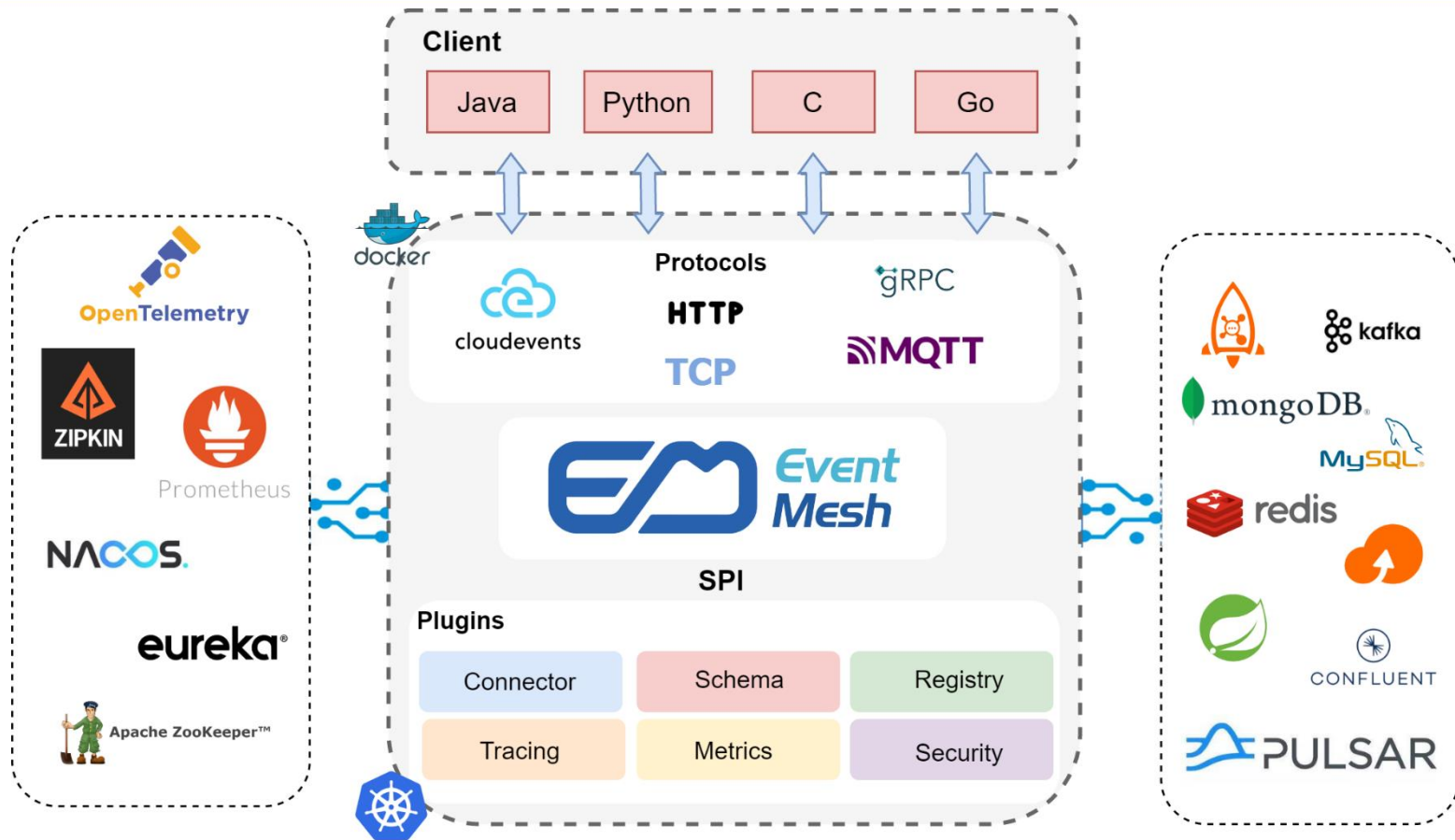


EventMesh架构

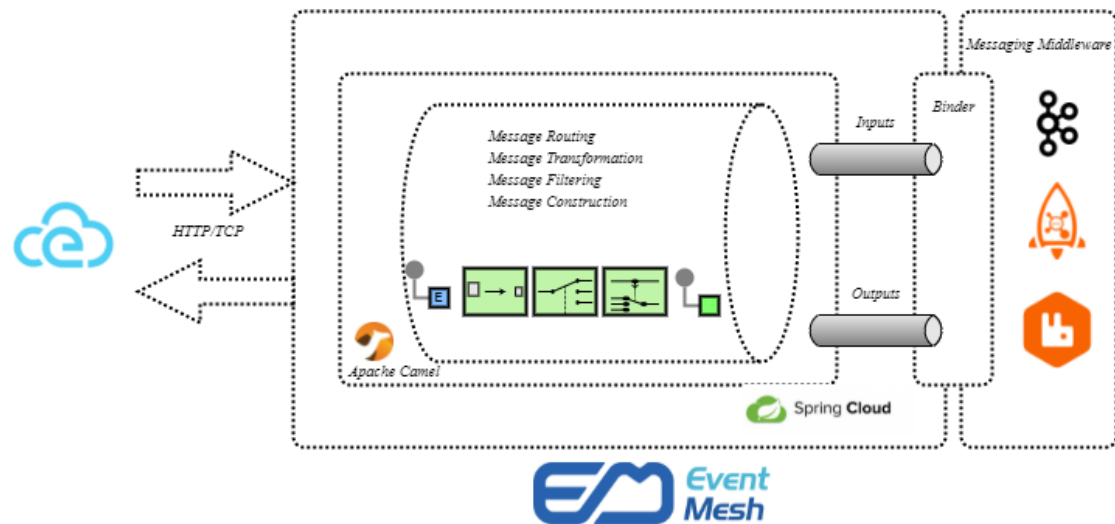




Connector/Adaptor



Binding

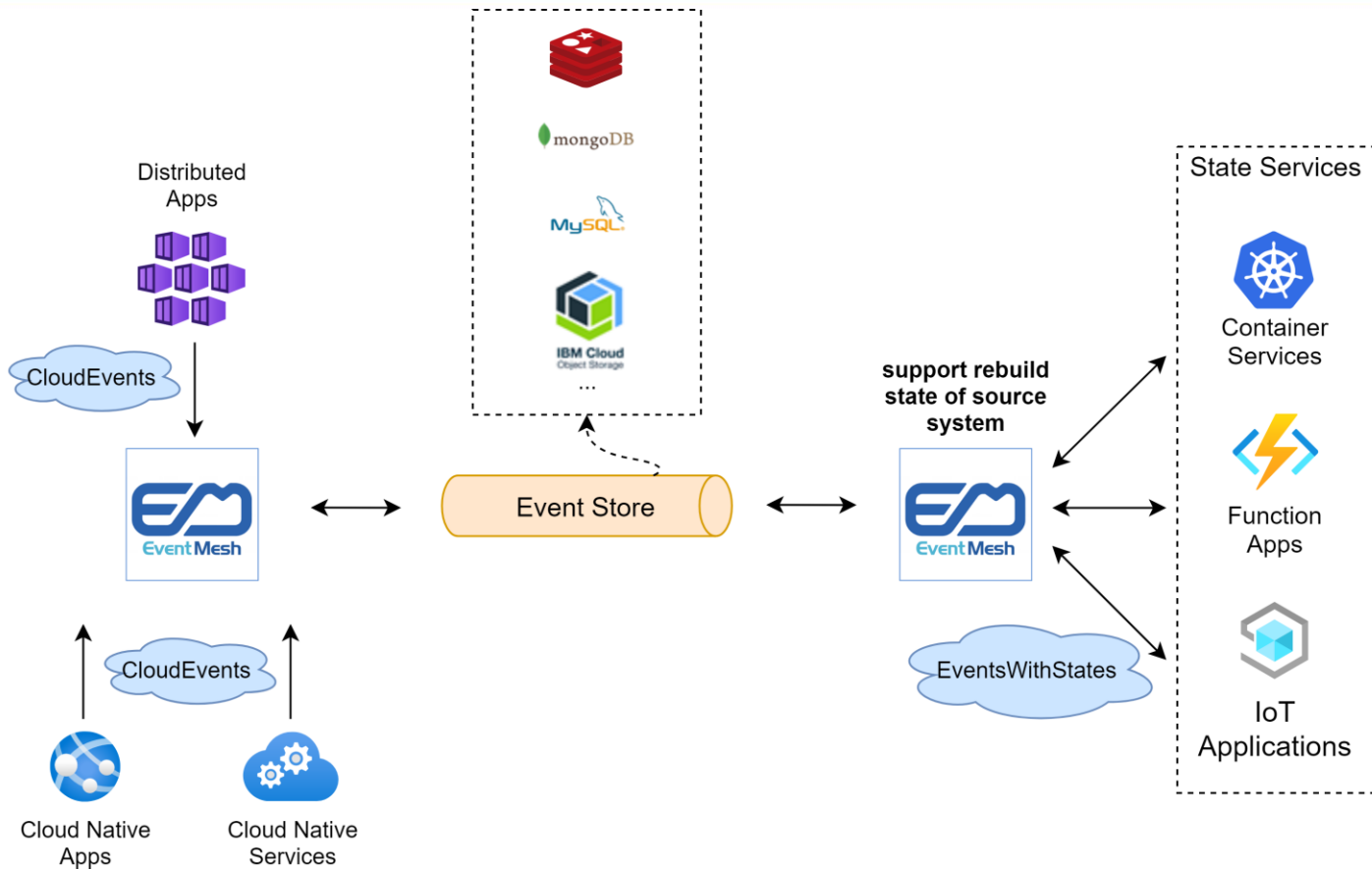


EventMesh enabled binding the event with topics and schema.

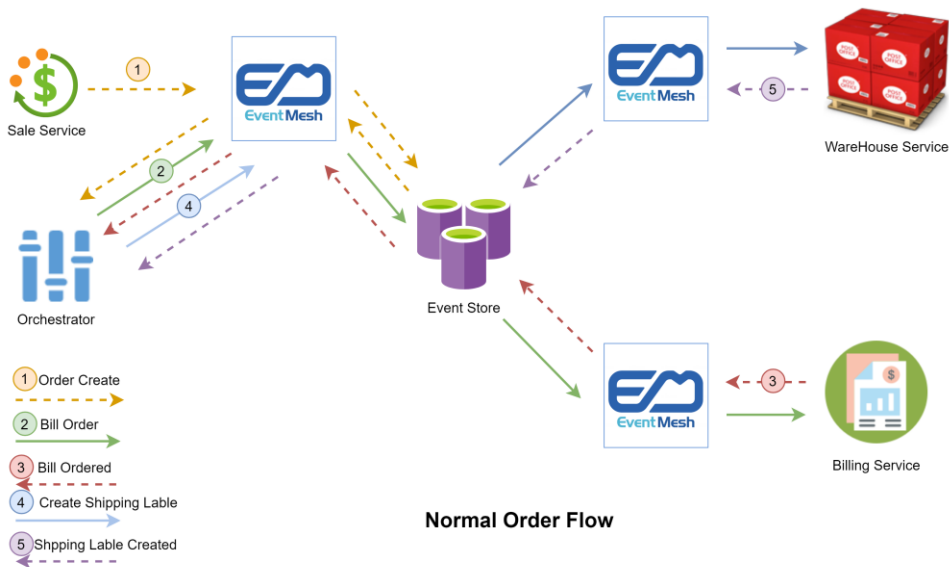
Support multiple event filter pattern:

- Specified value match
- Prefix match
- Suffix match
- Exclude match
- Numerical match
- ...

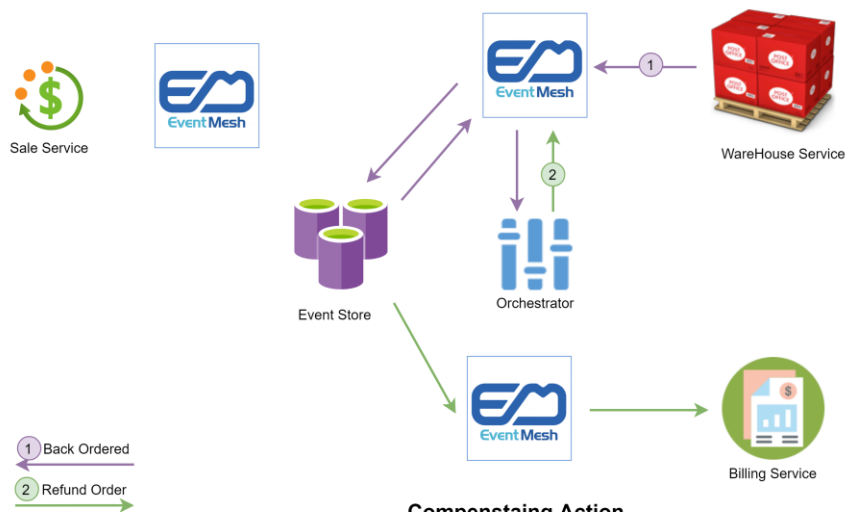
State Abstraction



Orchestration



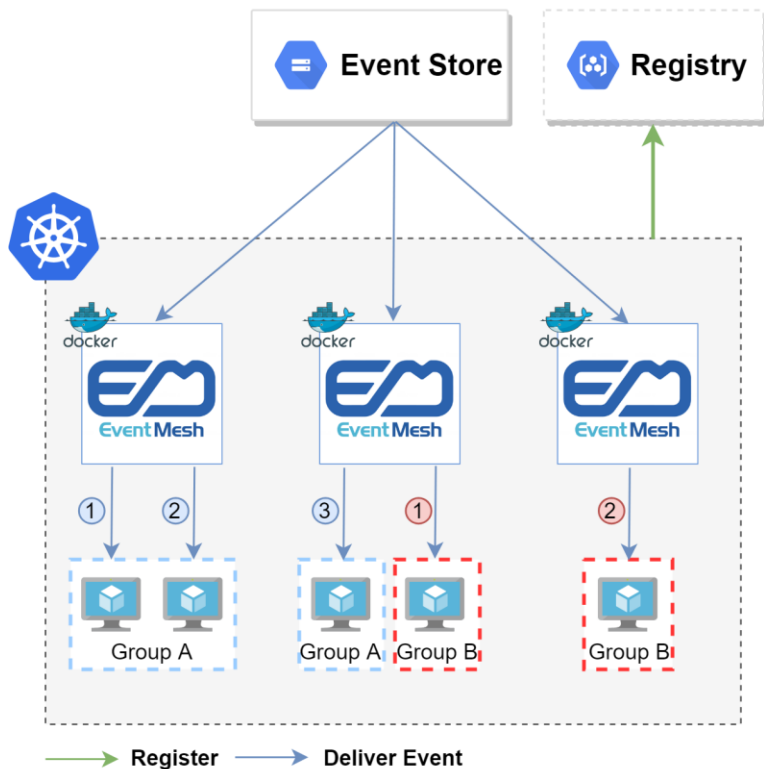
Normal Order Flow



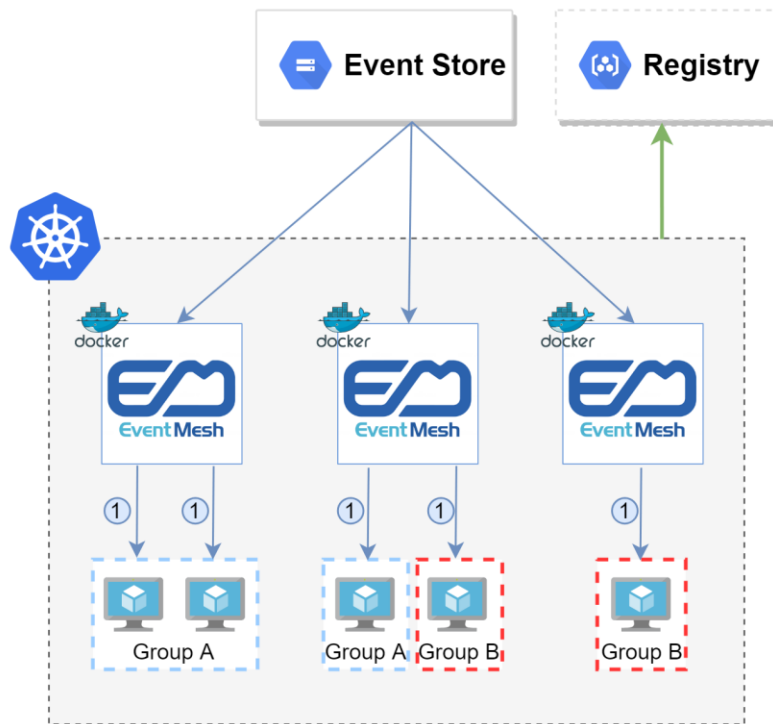
Compensating Action

Distributed Primitives

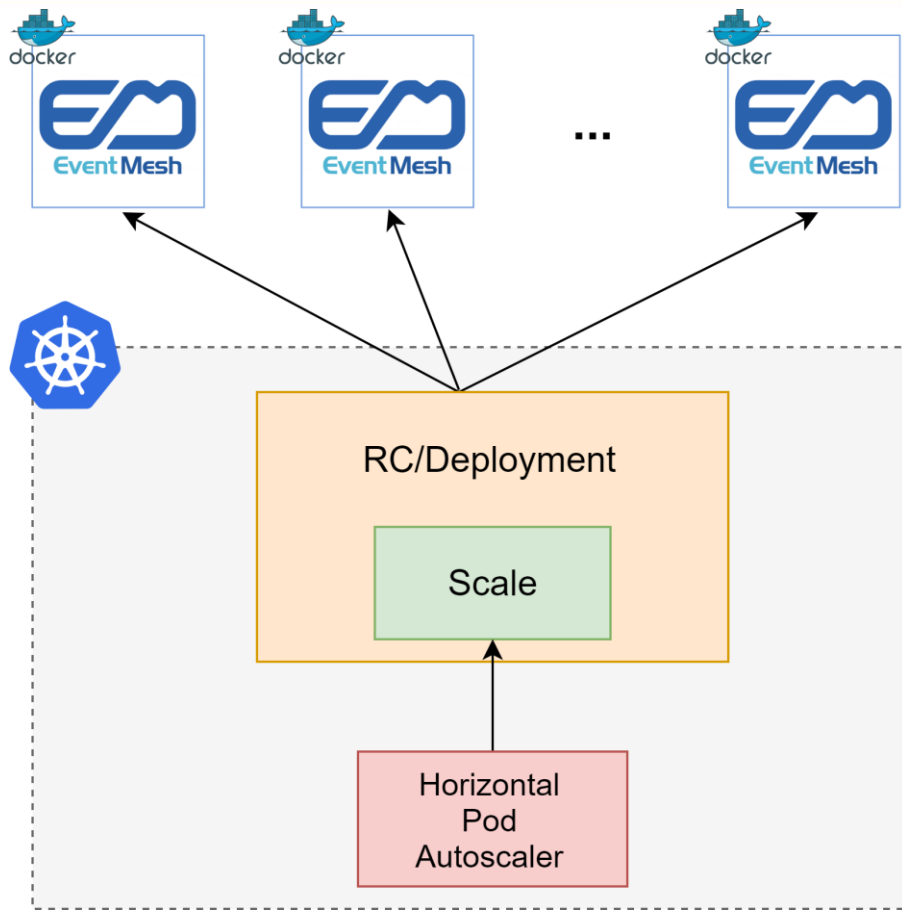
Cluster Consume Mode



BroadCast Consume Mode



Scaling



如何快速使用EventMesh

部署方式

- SideCar、Gateway、Docker

运行模式

- Stand alone模式
- Rocketmq模式

如何快速使用EventMesh



规划发展

CloudEvents

Integrate standard Events protocol



Event Streaming

Support real time event processing



OpenTelemetry

Tracing, Logging, Metrics,
improve observability



OpenSchema

Avro\JSON\ProtoBuf\etc.



Orchestration

Event Routing, Sourcing, Compensating
action



Multiple language SDK

c\go\python



More Protocols

gRPC\MQTT\



Support more event store

Kafka/Redis/Pulsar, cold storage

THANK YOU

QUESTIONS?



<https://github.com/apache/incubator-eventmesh>



@ASFEventMesh



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扫码关注
开源社公众号



2021 中国开源年会

HAPPY HACKING

