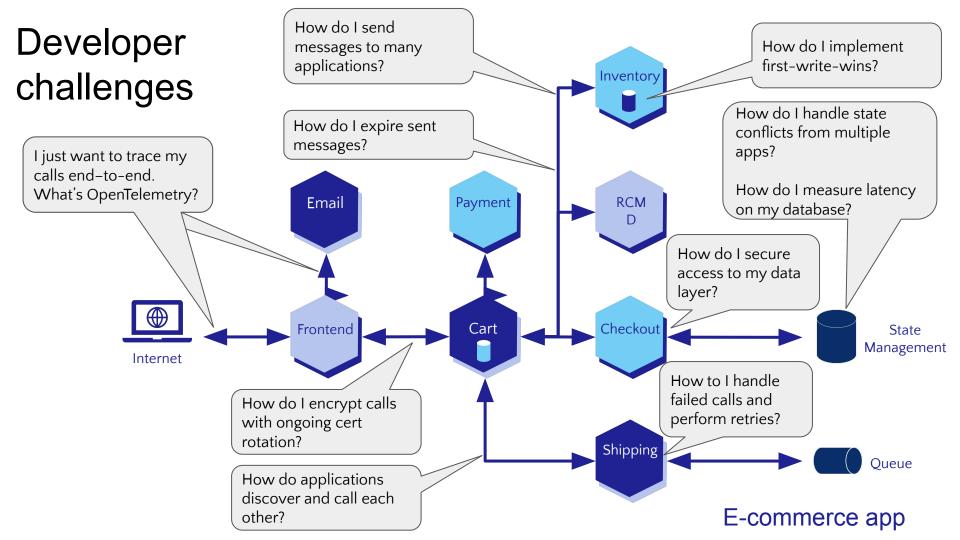
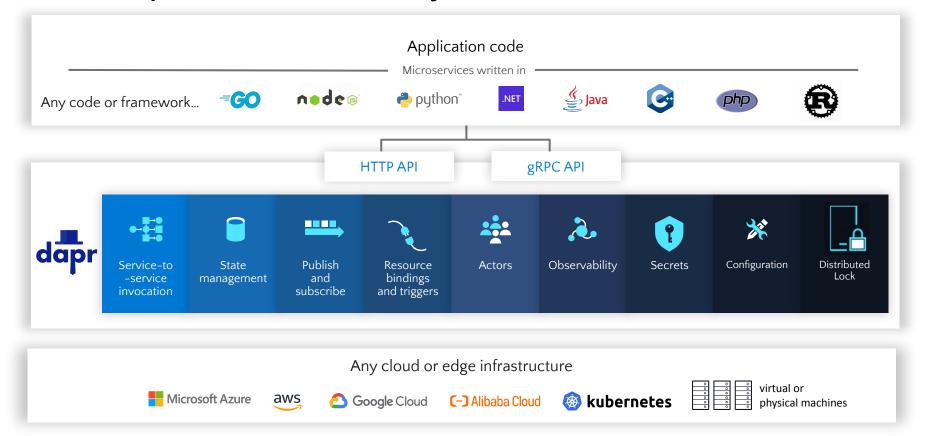
# Better WASM microservices with Dapr

Yaron Schneider

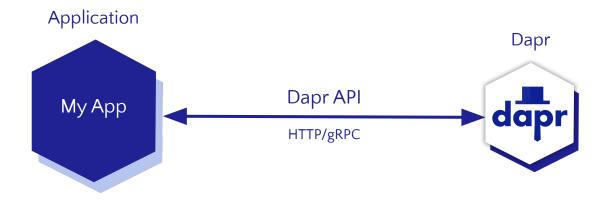
Co-Founder / CTO at Diagrid Dapr maintainer & steering committee member



### Enter Dapr - Distributed Systems APIs



#### Dapr does the heavy lifting

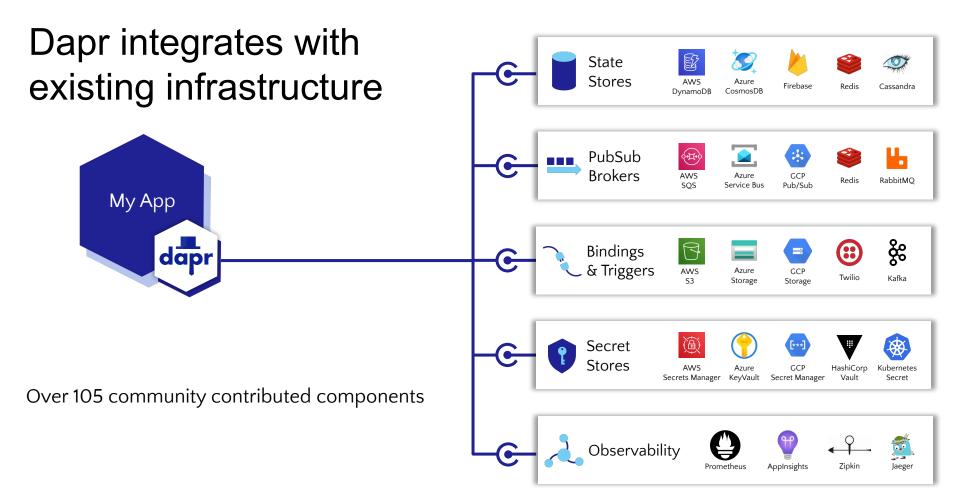


POST http://localhost:3500/v1.0/invoke/cart/method/neworder

GET http://localhost:3500/v1.0/state/inventory/item67

POST http://localhost:3500/v1.0/publish/shipping/orders

GET http://localhost:3500/v1.0/secrets/appvault/password



#### Dapr Community Momentum

19.8k

GitHub stars

2.3k

Contributors

108

Community components

+1.0M

Docker Hub monthly pulls 4.9k

Discord members 291k

Unique docs views/mo



Microsoft

ALL TIME COMMUNITY CONTRIBUTORS (EXCLUDING TEAM)



















9th largest CNCF project (of 124)

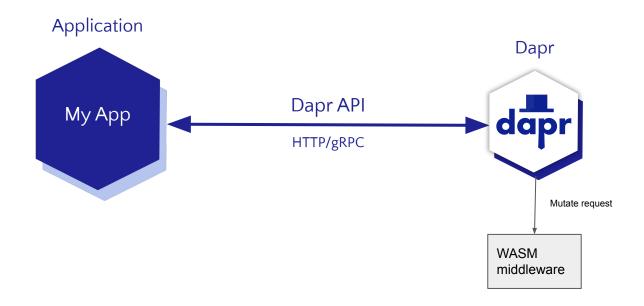






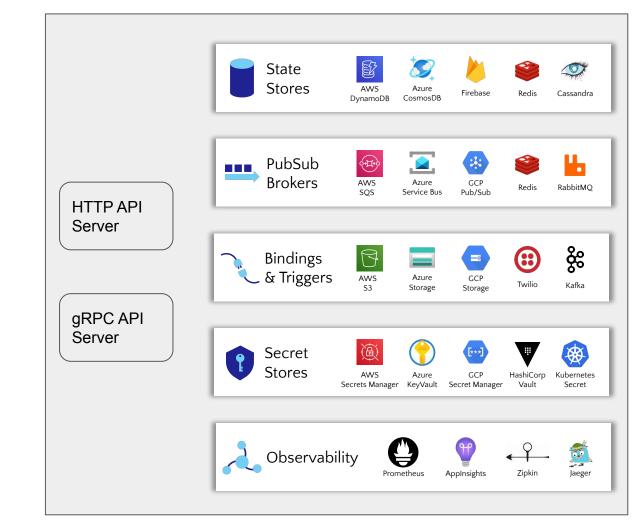


## WASM support in Dapr - today

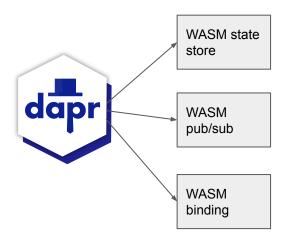


#### Dapr components

- Compiled as part of the Dapr binary
- 2. Must be written in Go



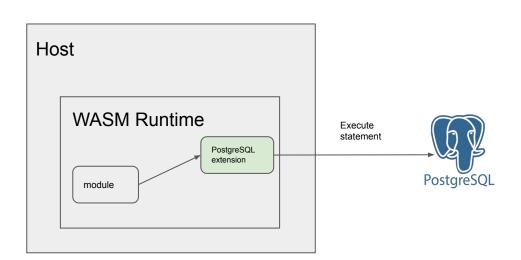
### As WASM matures - pluggable, dynamic components

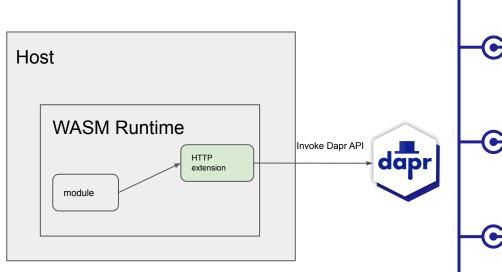


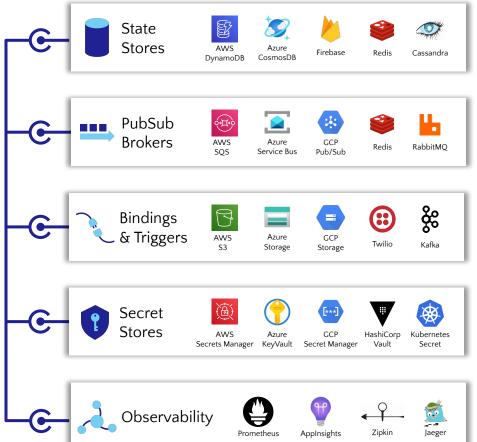
# How can Dapr help WASM apps?

#### **WASM limitations**

- 1. No TCP/UDP networking primitives limited client ecosystem
- 2. Limited multi-threading outside of Web Workers

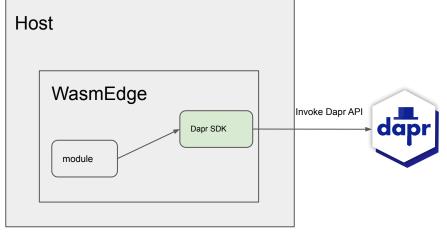


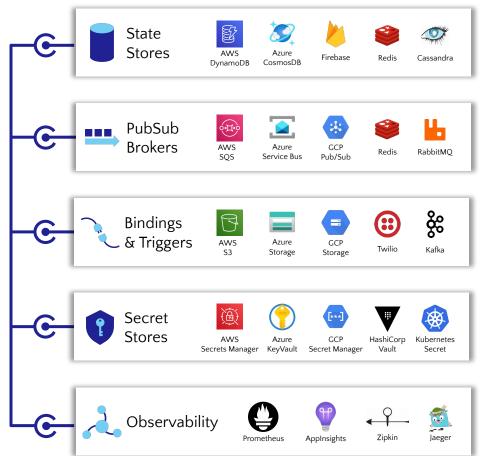




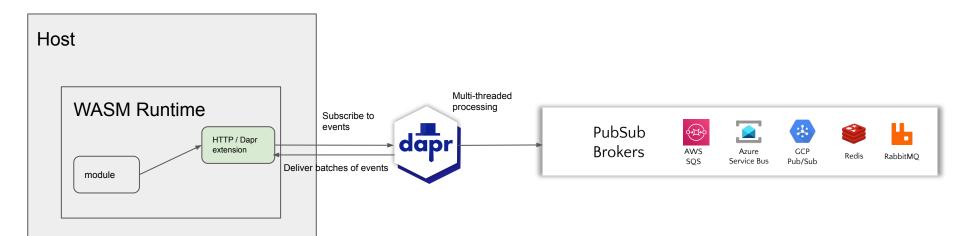
#### Dapr support in WasmEdge

https://github.com/second-state/dapr-wasm





#### Common real world scenario - High throughput message processing



Thank you!