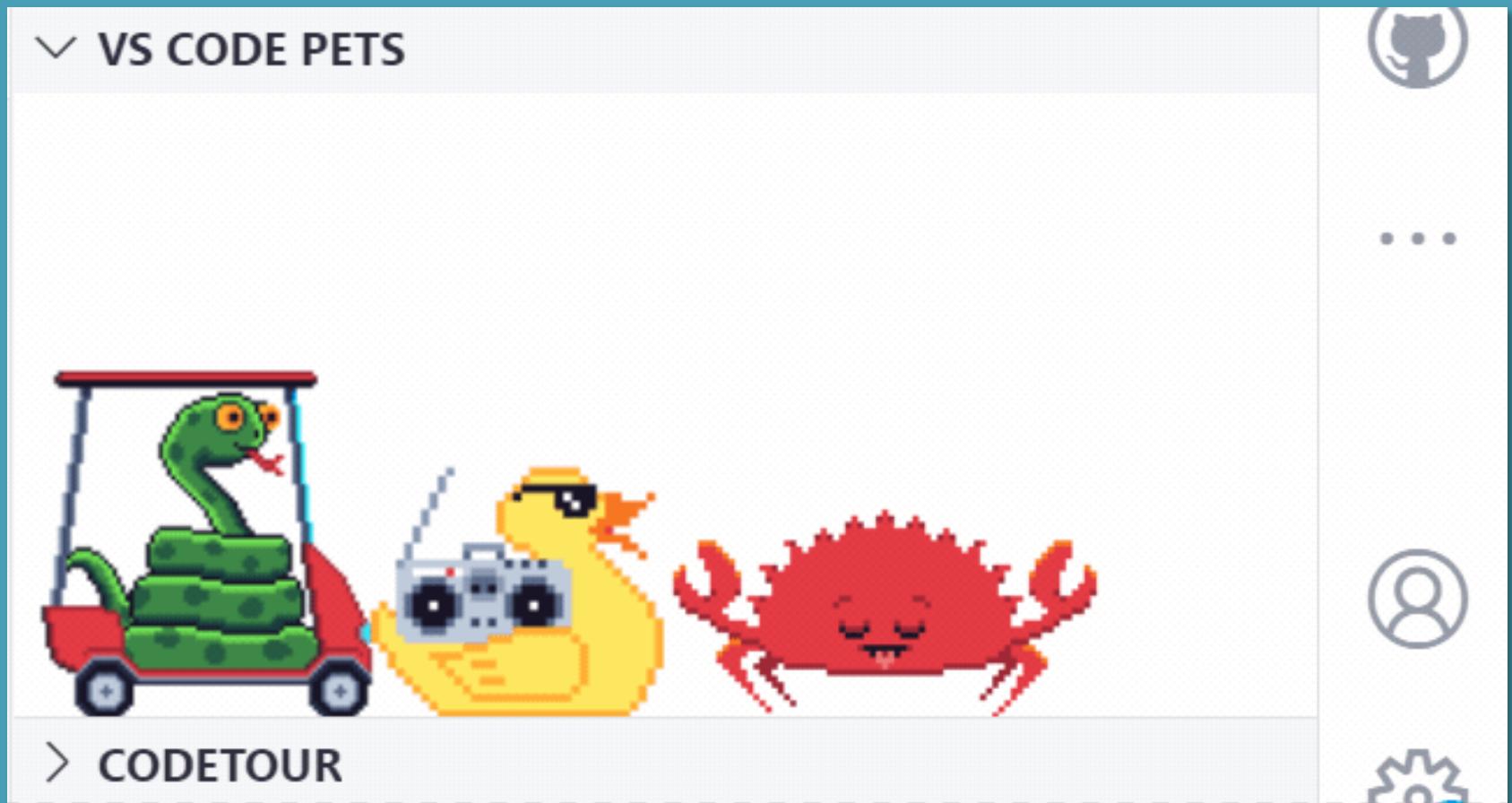


Start building applications with ease using building block APIs



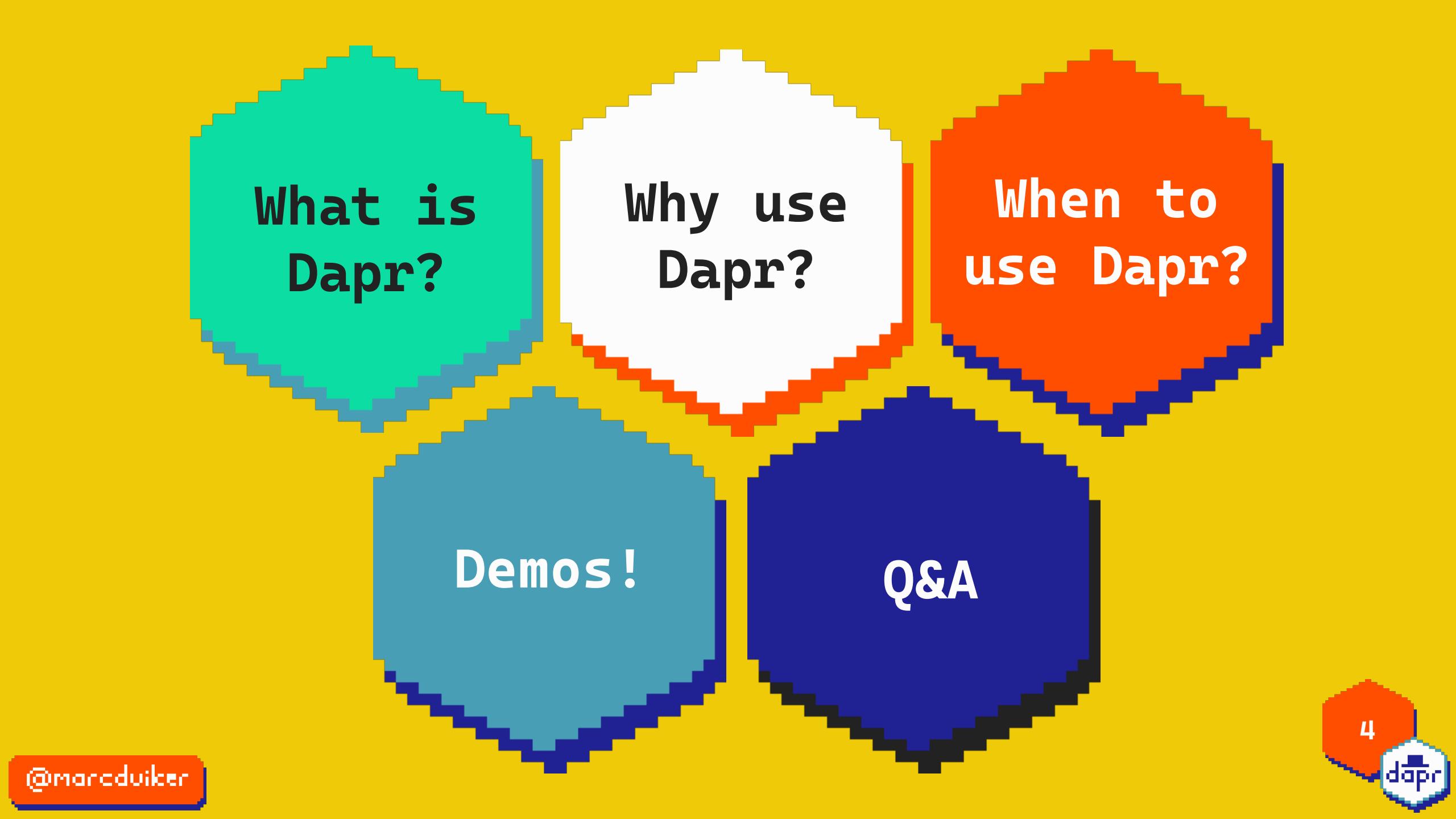
Marc Duiker
Sr Dev Advocate
 Diagrid
marc@diagrid.io

Azure MVP
Dapr Community Manager
 pixel art



@marcduiker





**What is
Dapr?**

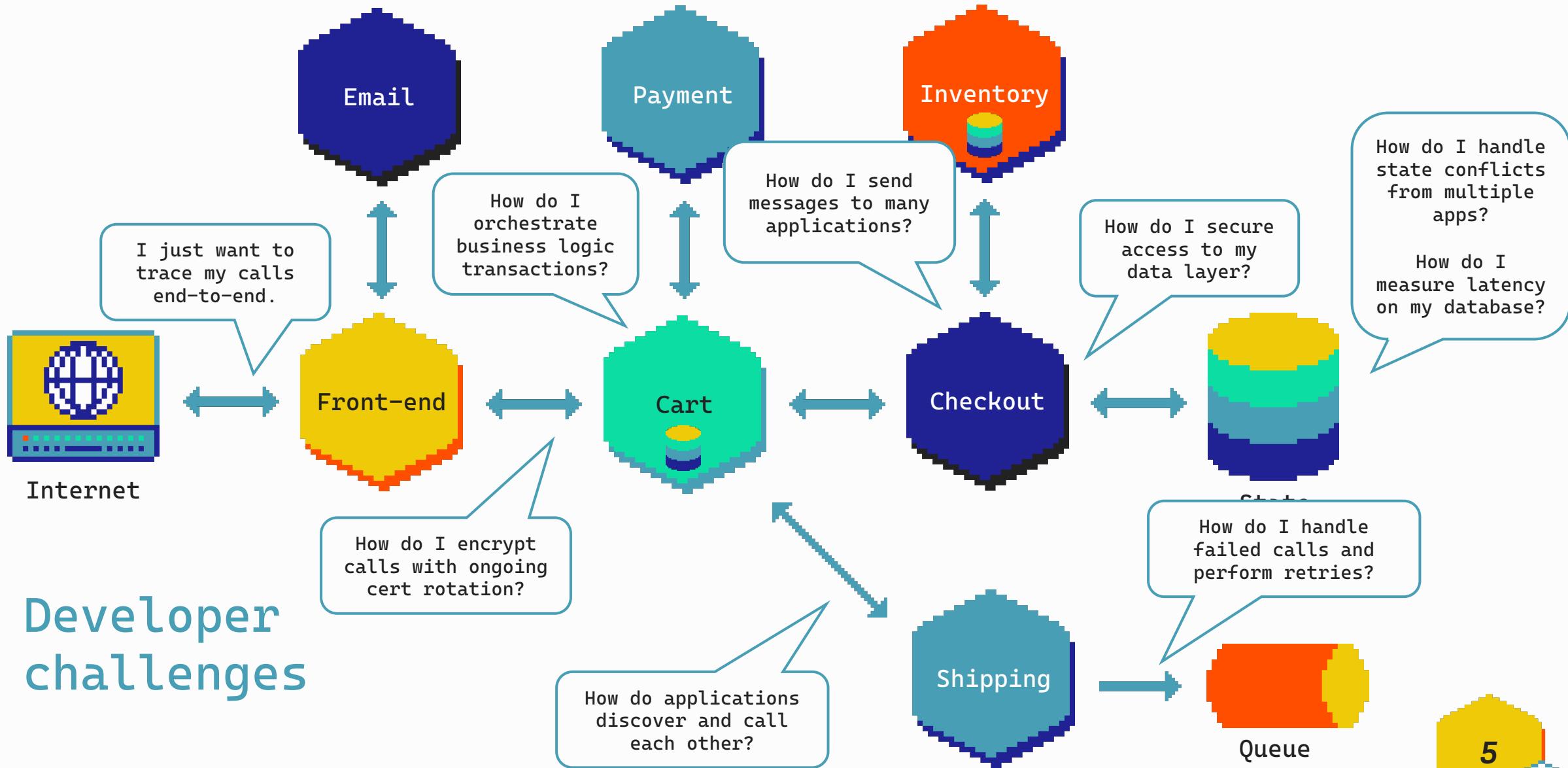
**Why use
Dapr?**

**When to
use Dapr?**

Demos!

Q&A

E-commerce system



Developer challenges

Distributed
application
runtime



What is Dapr?

Dapr is a portable, event-driven, runtime for building distributed applications across cloud and edge.



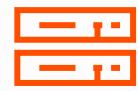
Microsoft Azure



Google Cloud



kubernetes



virtual or
physical machines

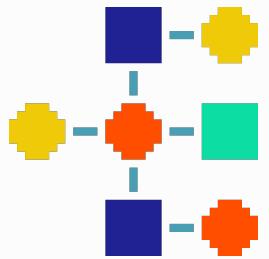
Why use Dapr?

10

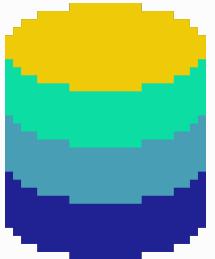


Speeds up microservice development by providing a common set of **building block APIs**.

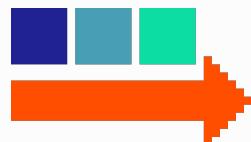
Building block APIs



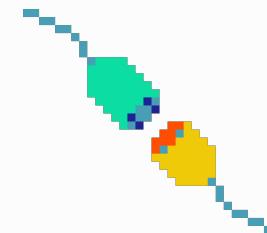
Service invocation



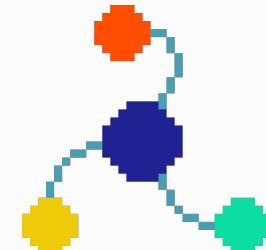
State Management



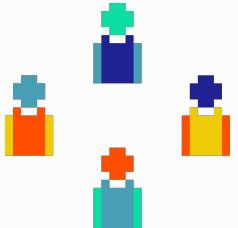
Publish & subscribe



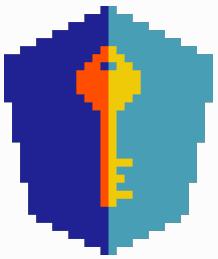
Bindings
(input & output)



Observability



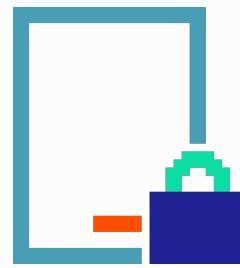
Actors



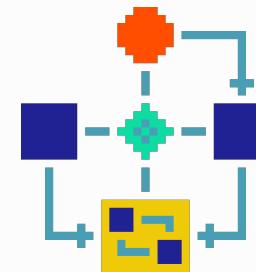
Secret Stores



Configuration

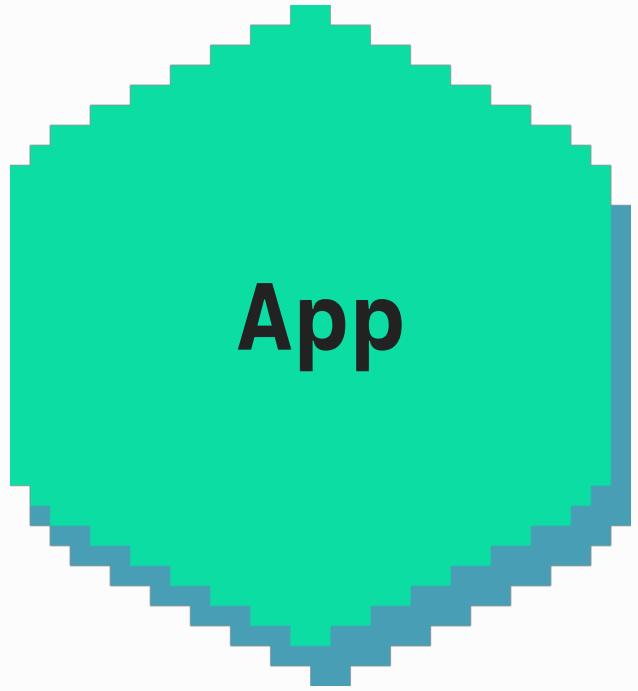


Distributed Lock

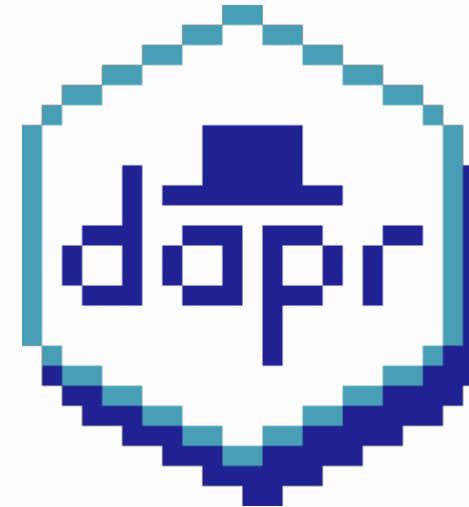
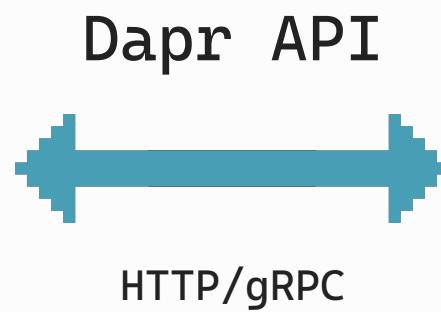


Workflows

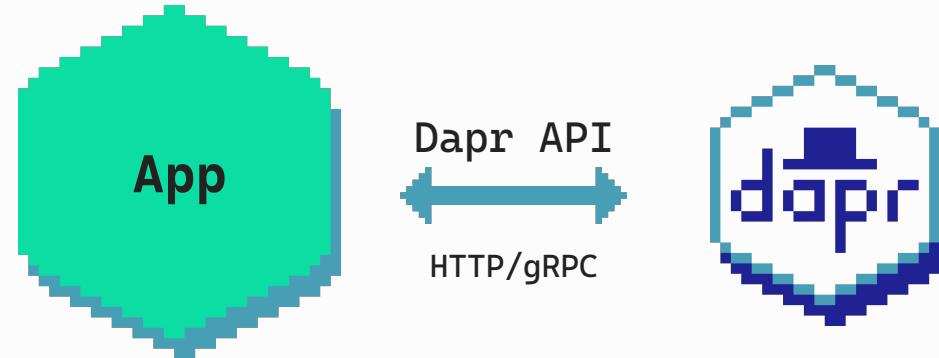




Application



Dapr sidecar



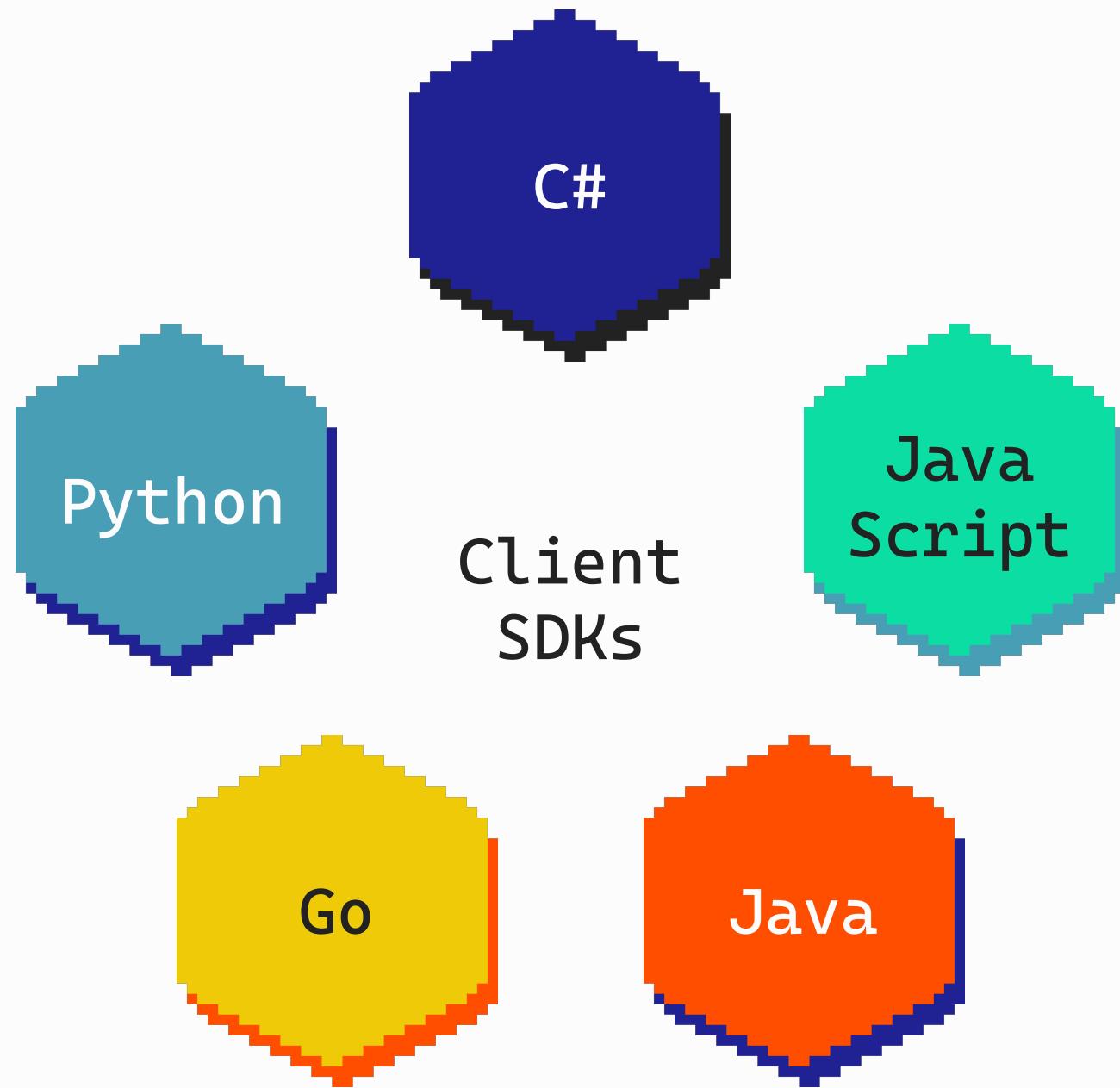
POST http://localhost:3500/v1.0/**invoke**/cart/method/order

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

POST http://localhost:3500/v1.0/**publish**/order

GET http://localhost:3500/v1.0/**secrets**/vault/password42

POST http://localhost:3500/v1.0-alpha1/**workflows**/dapr/businessprocess/1234/start



Dapr project

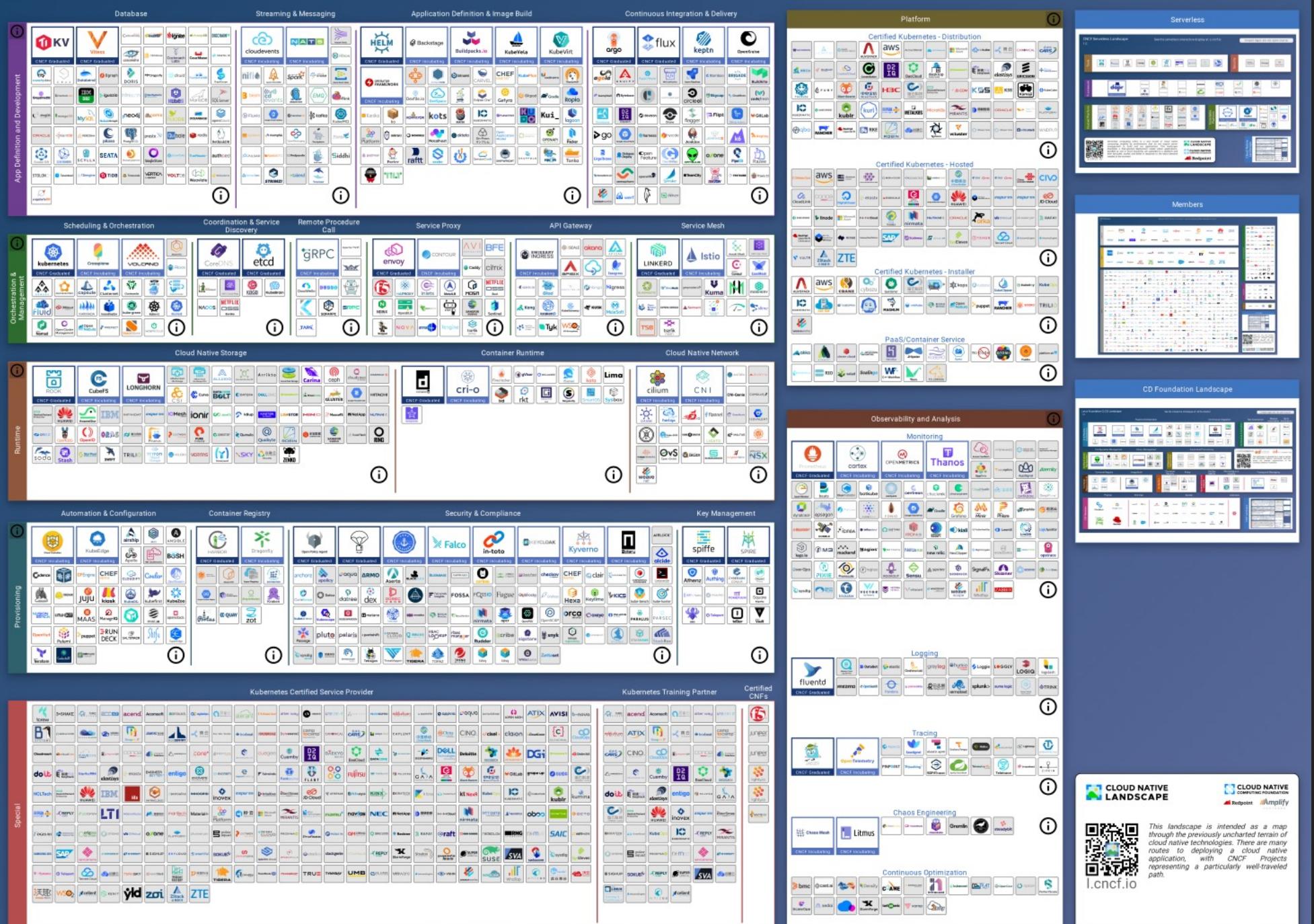
**Submitted
to CNCF
Nov 2021**

**Incubation
maturity
level**

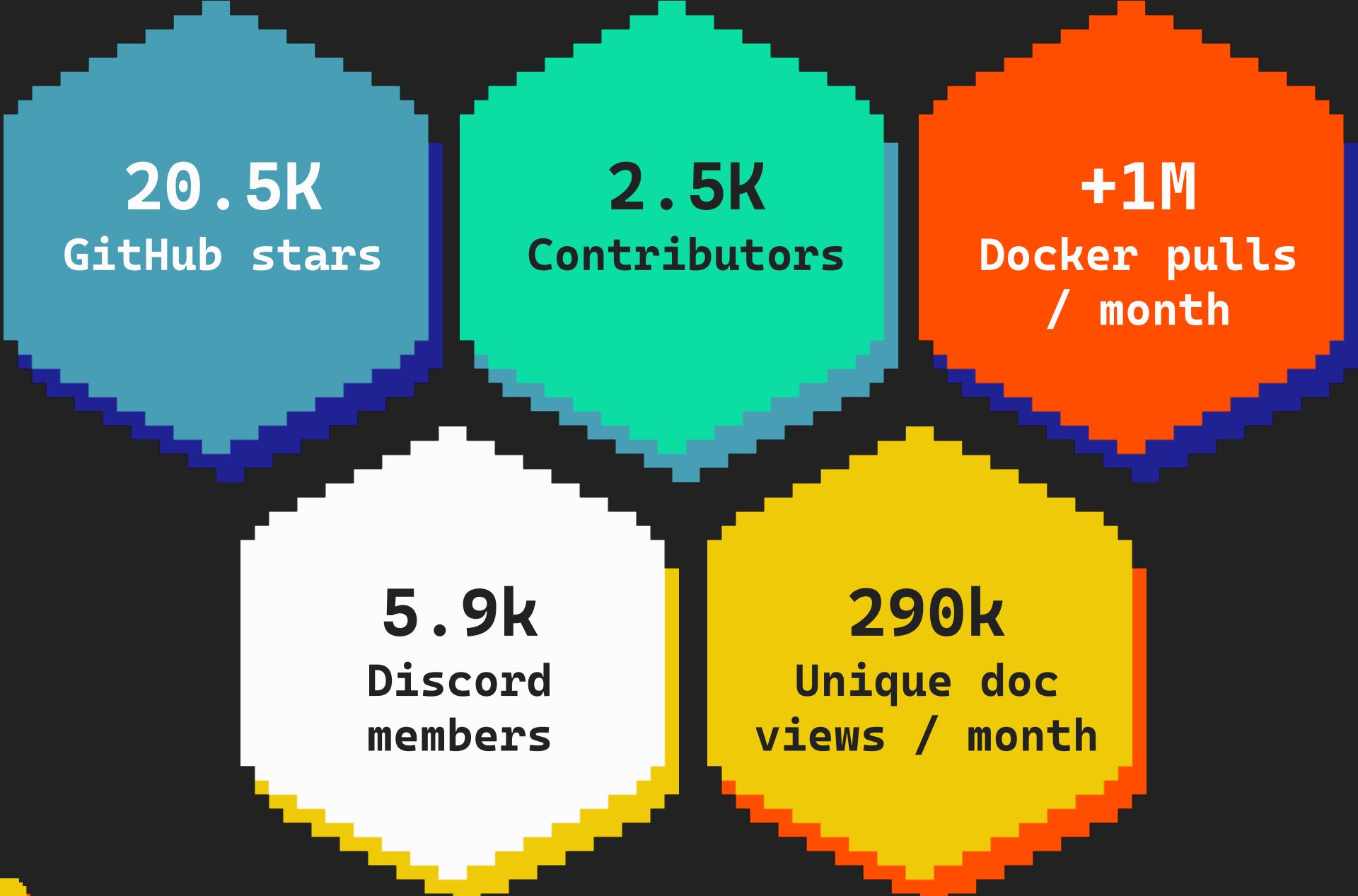
**10th largest
CNCF project**

16





@marcduiker



20.5K
GitHub stars

2.5K
Contributors

+1M
Docker pulls / month

5.9k
Discord members

290k
Unique doc views / month

Contributing organizations



Microsoft



vmware®



Alibaba Cloud



HashiCorp

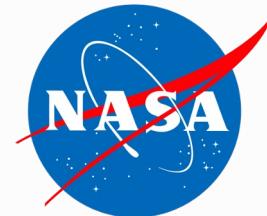


HUAWEI



BOSCH

Dapr users



FUJITSU CLOUD TECHNOLOGIES LIMITED

Dotmatics

at bay



wortell

IGNITION
GROUP

Building BloxknARFs



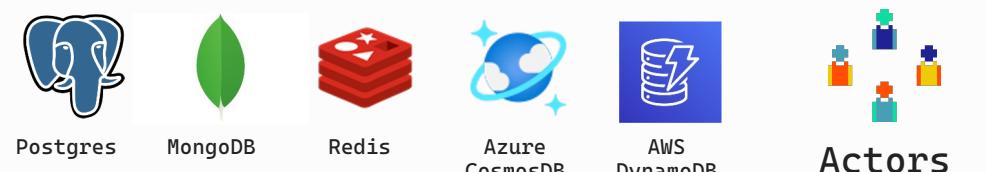
State Management



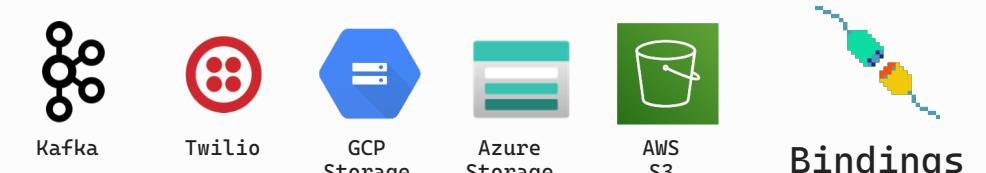
Publish & subscribe



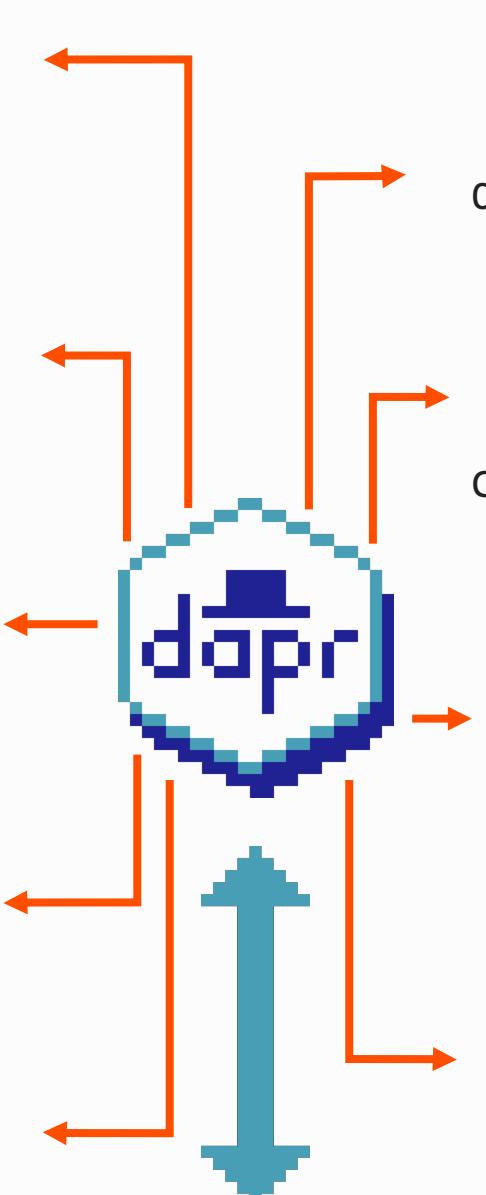
Secret Stores



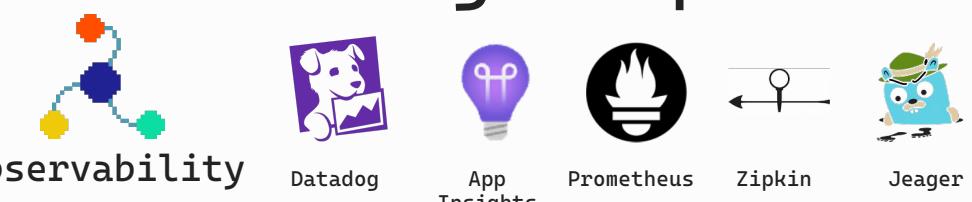
Actors



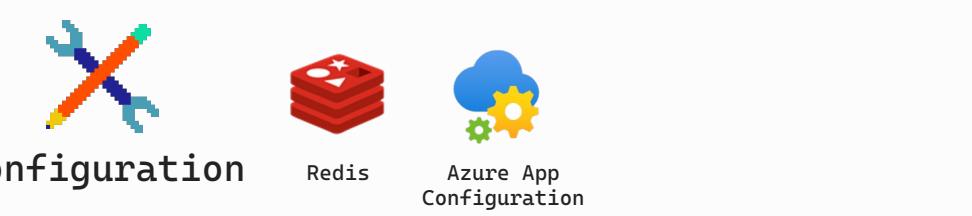
Bindings



Observability



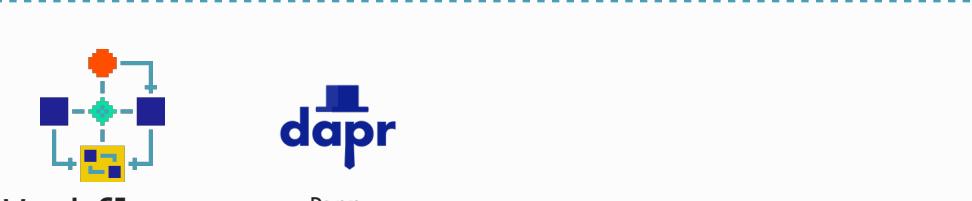
Configuration

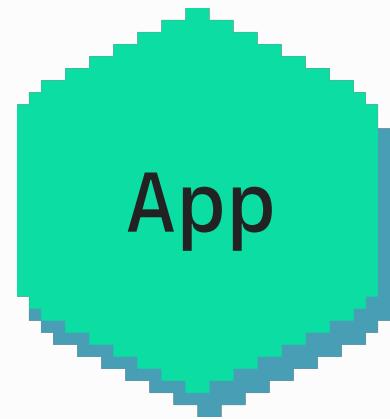


Distributed Lock



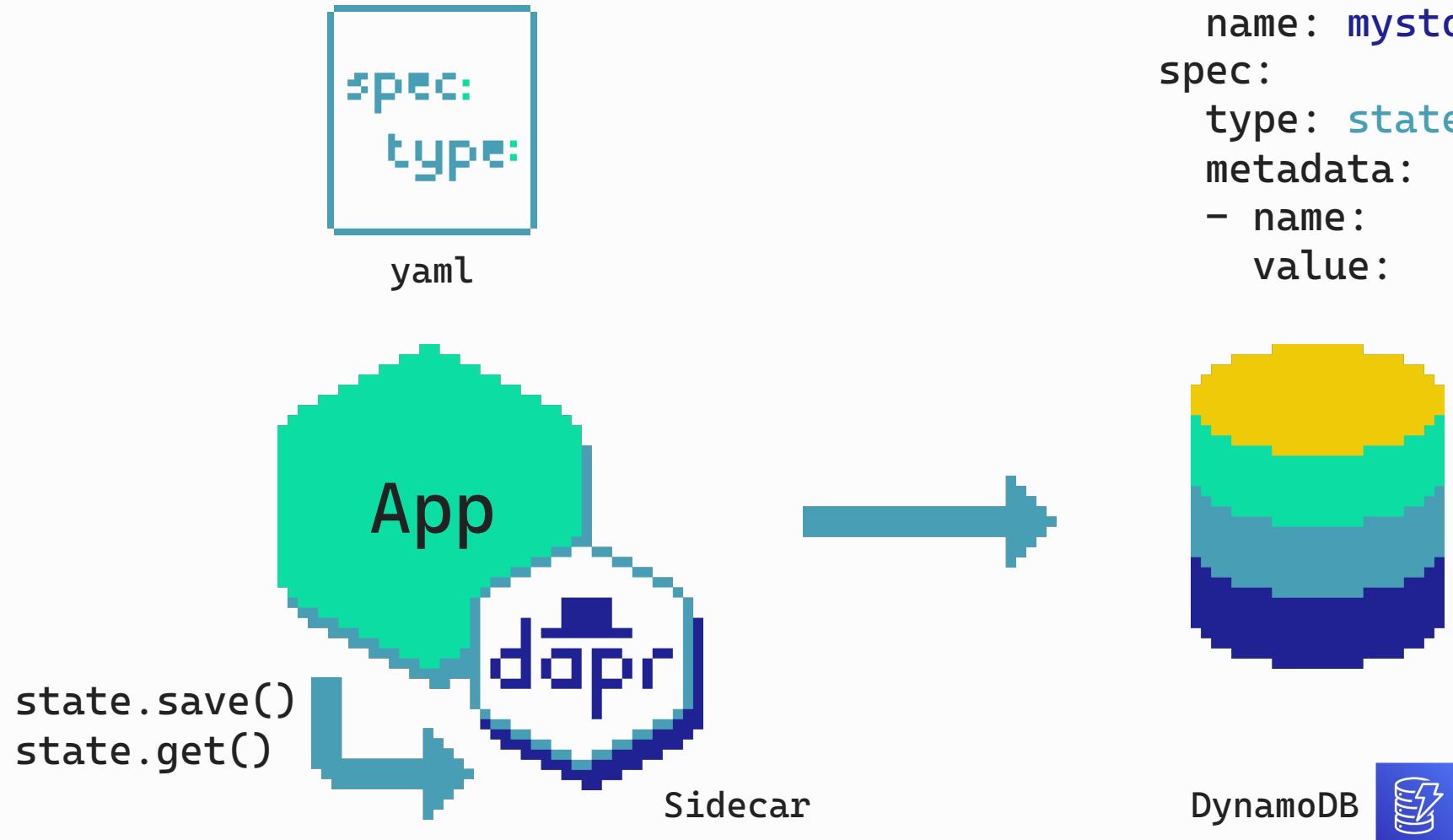
Workflows

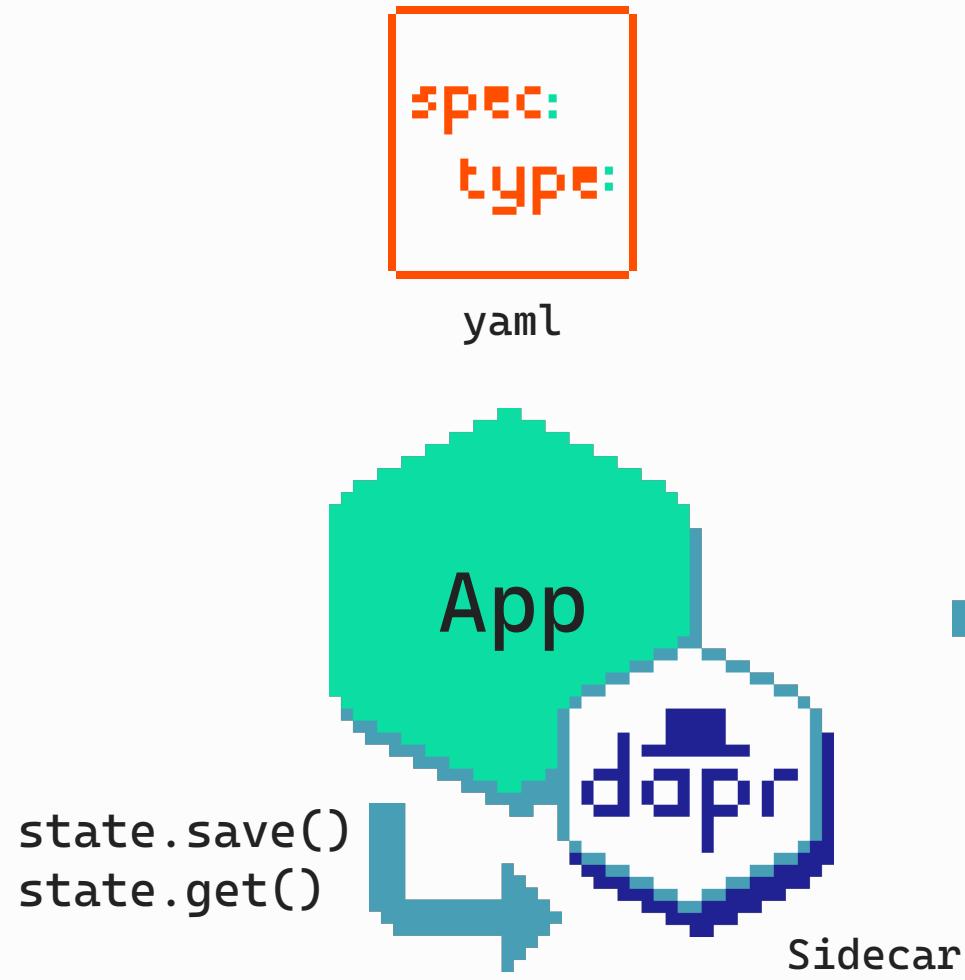




DynamoDB 

The text "DynamoDB" is followed by a blue square icon containing a white lightning bolt symbol.





```
metadata:  
  name: mystorage  
spec:  
  type: state.redis  
  metadata:  
    - name:  
      value:
```



Unified API with **flexibility**
at the **component** level.

Is Dapr a service mesh?

No.

Dapr & service mesh similarities:





Developer centric

Building block APIs & components



Infrastructure centric

Network traffic & Routing

When to use Dapr?

30



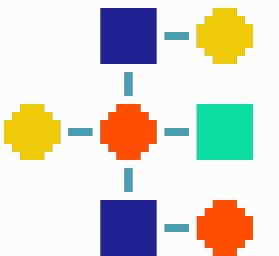
You are in a large organisation
with many different teams or
tech stacks.

Greenfield projects: postpone your architecture decisions.

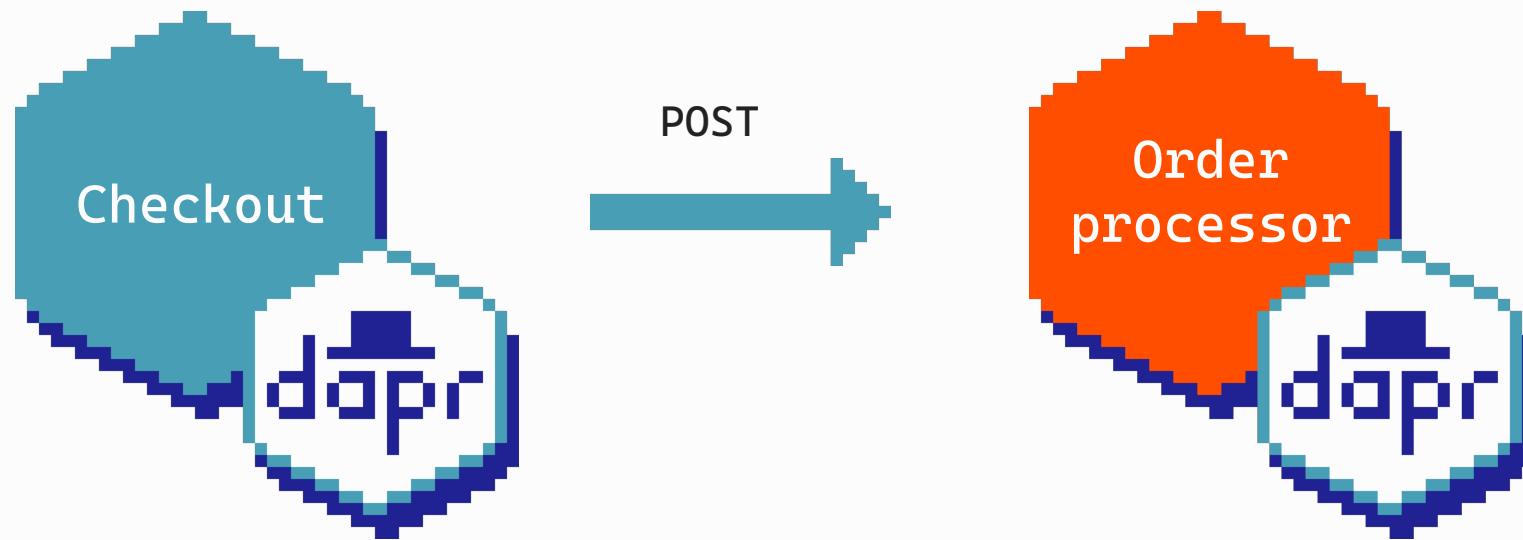
When not to use Dapr?

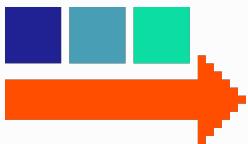
If your team is allergic to
containers & Kubernetes ;)

Building block demos

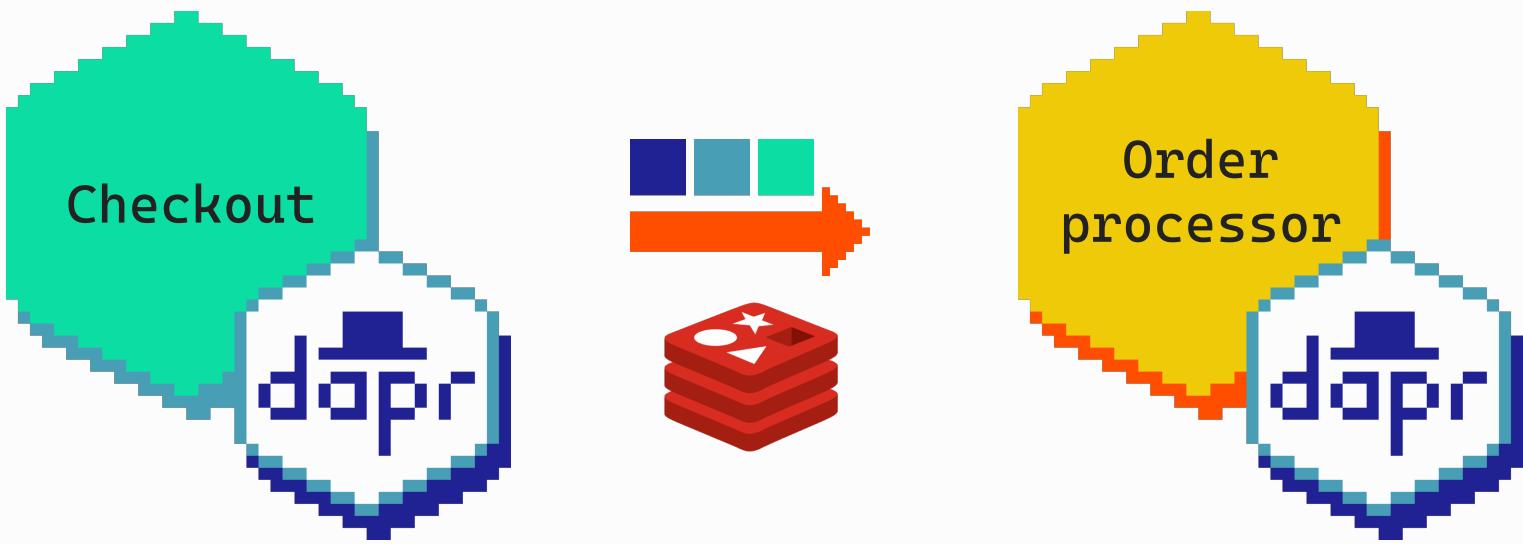


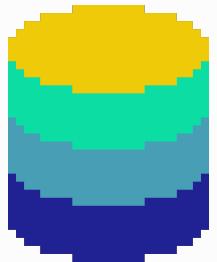
Service
invocation



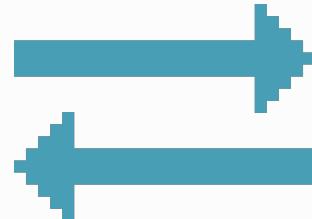
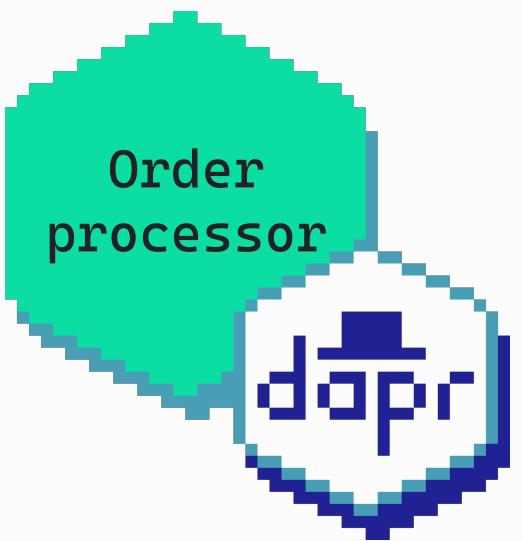


Publish &
subscribe





State
Management



Speeds up microservice development by providing a common set of **building block APIs**.



Join the Dapr Discord!

bit.ly/dapr-discord

