

Start building
distributed applications
with ease using
building block APIs

Deze sessie (met veel code) behandelt de verschillende bouwstenen van Dapr:
service-aanroep, pub/sub-berichten, staatswinkels, geheime winkels, bindingen en
workflow. Codevoorbeelden en live demo's worden geleverd in JavaScript en .NET.



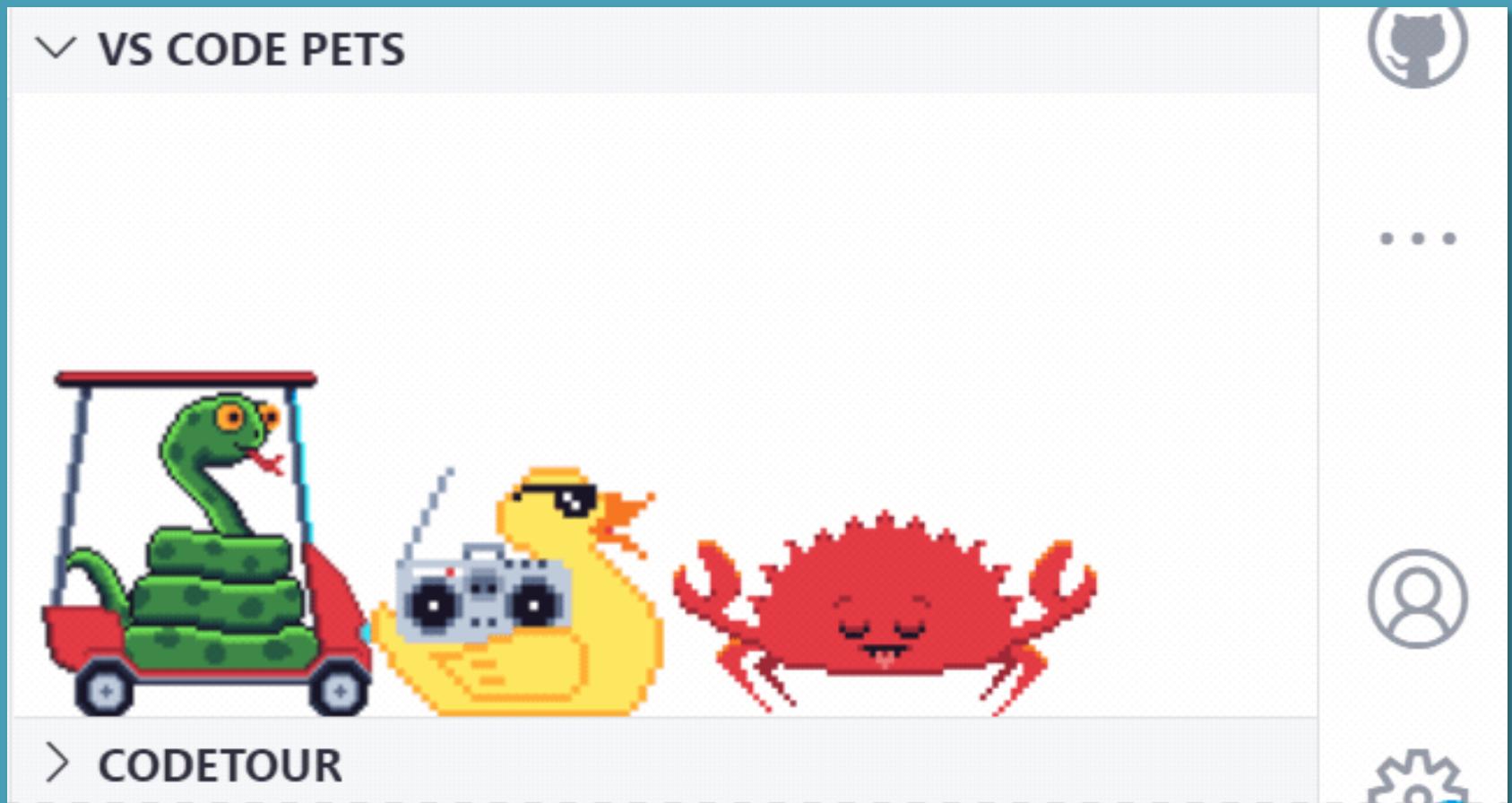
<https://tweakers.net/partners/devsummit2023/1900/sprekerstracks/>

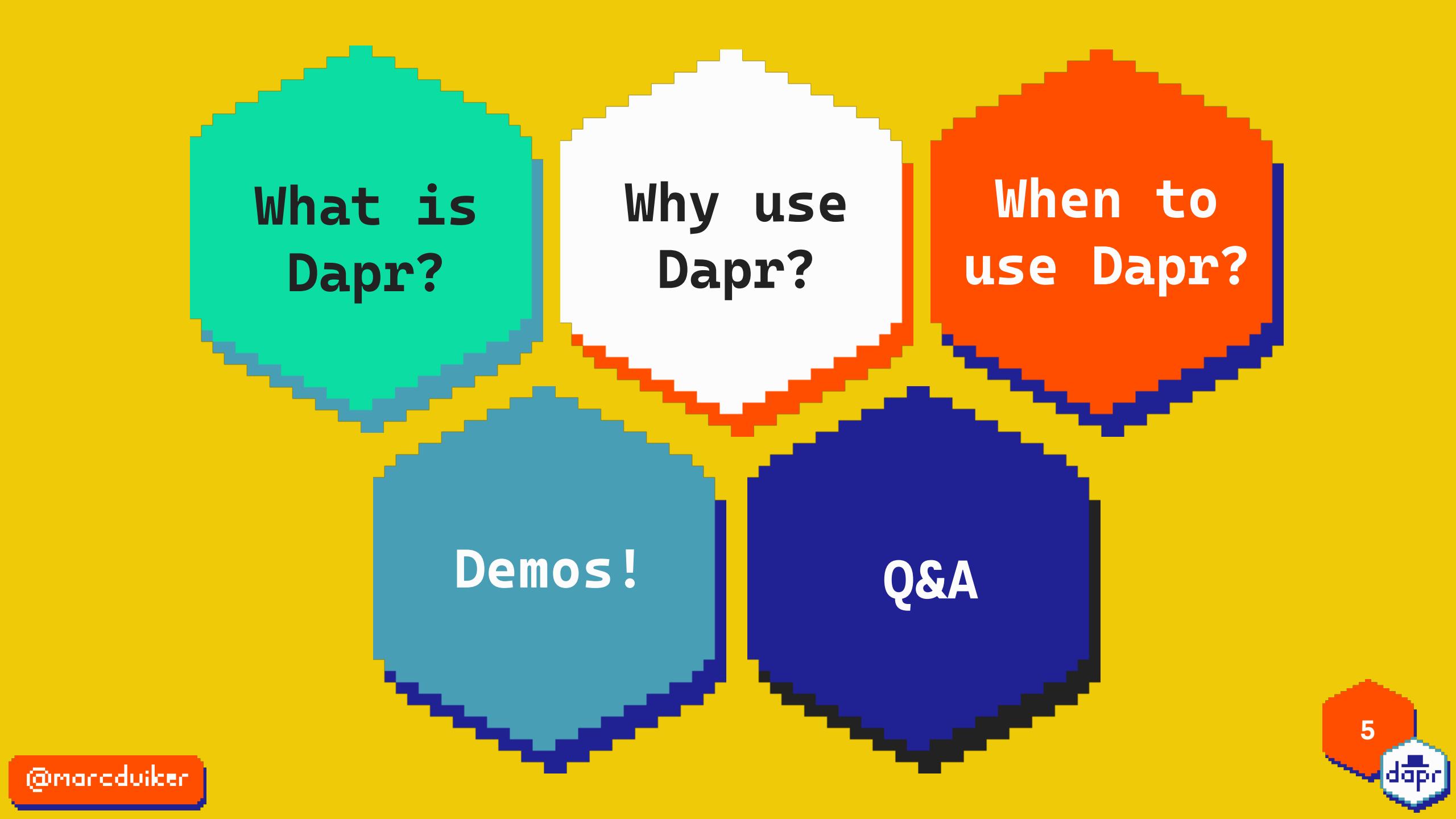


@marcduiker

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**What is
Dapr?**

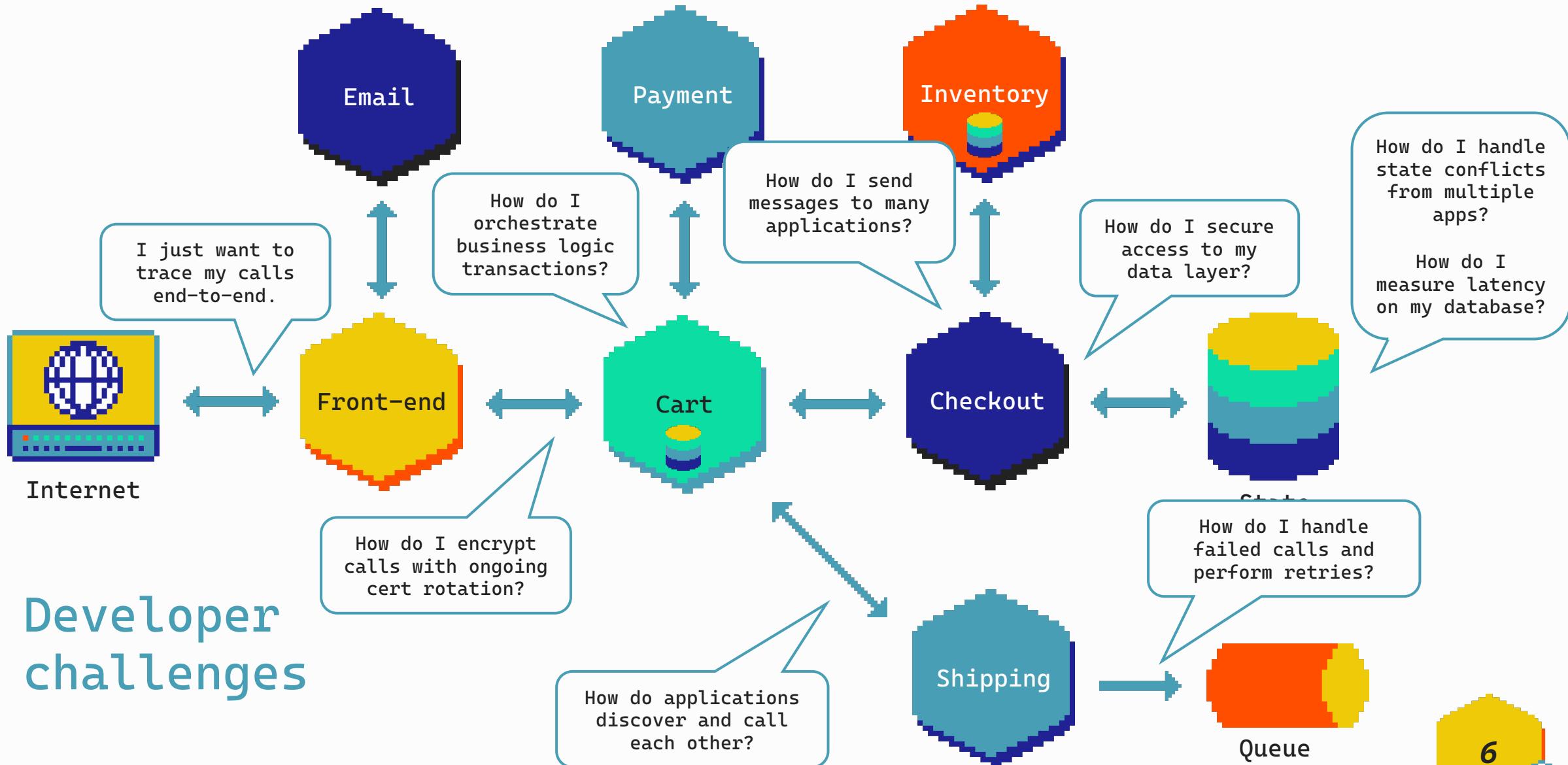
**Why use
Dapr?**

**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

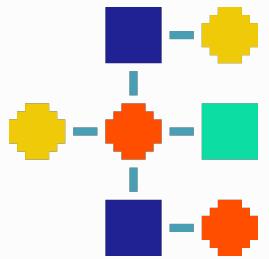
10



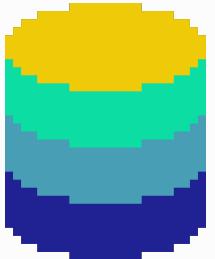
Why use Dapr?

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

Building block APIs



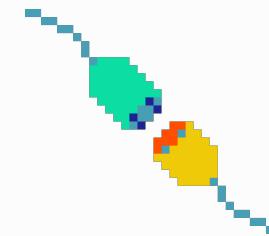
Service invocation



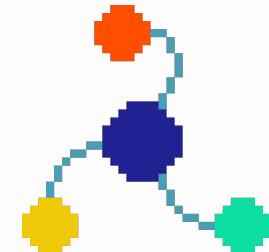
State Management



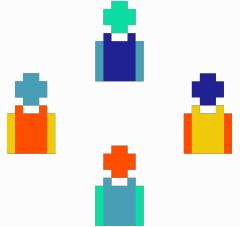
Publish & subscribe



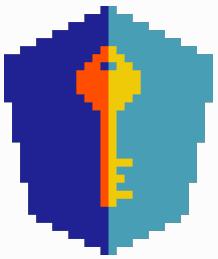
Bindings
(input & output)



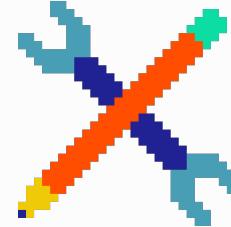
Observability



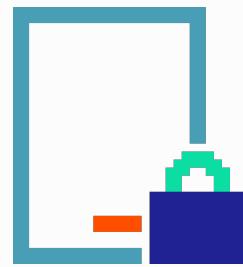
Actors



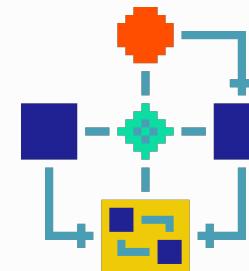
Secret Stores



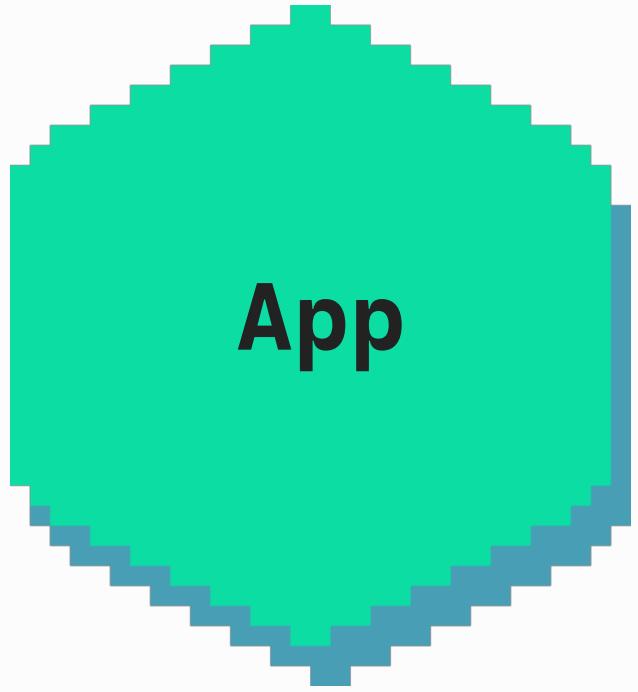
Configuration



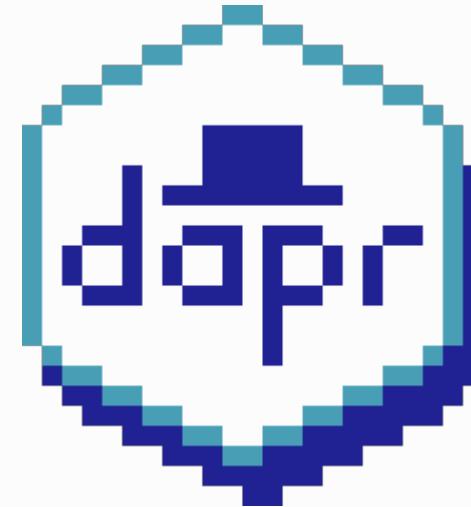
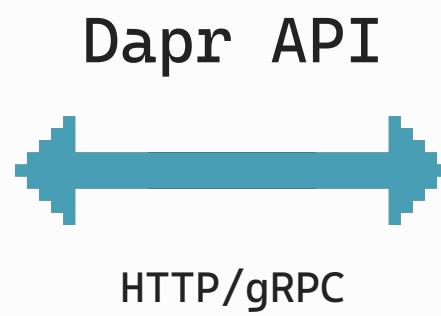
Distributed Lock



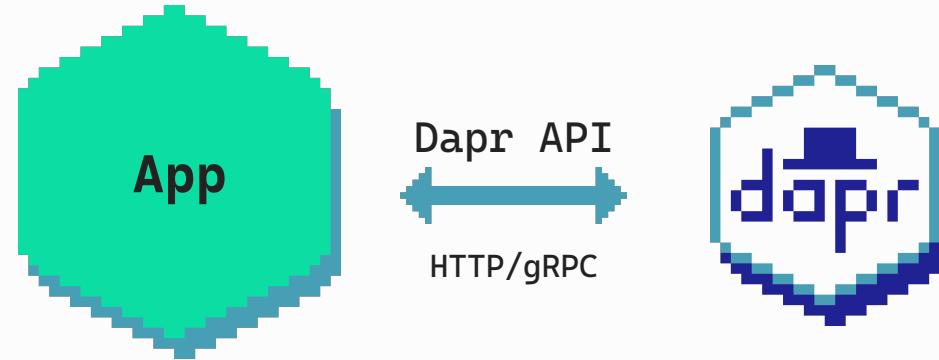
Workflows



Application



Dapr sidecar



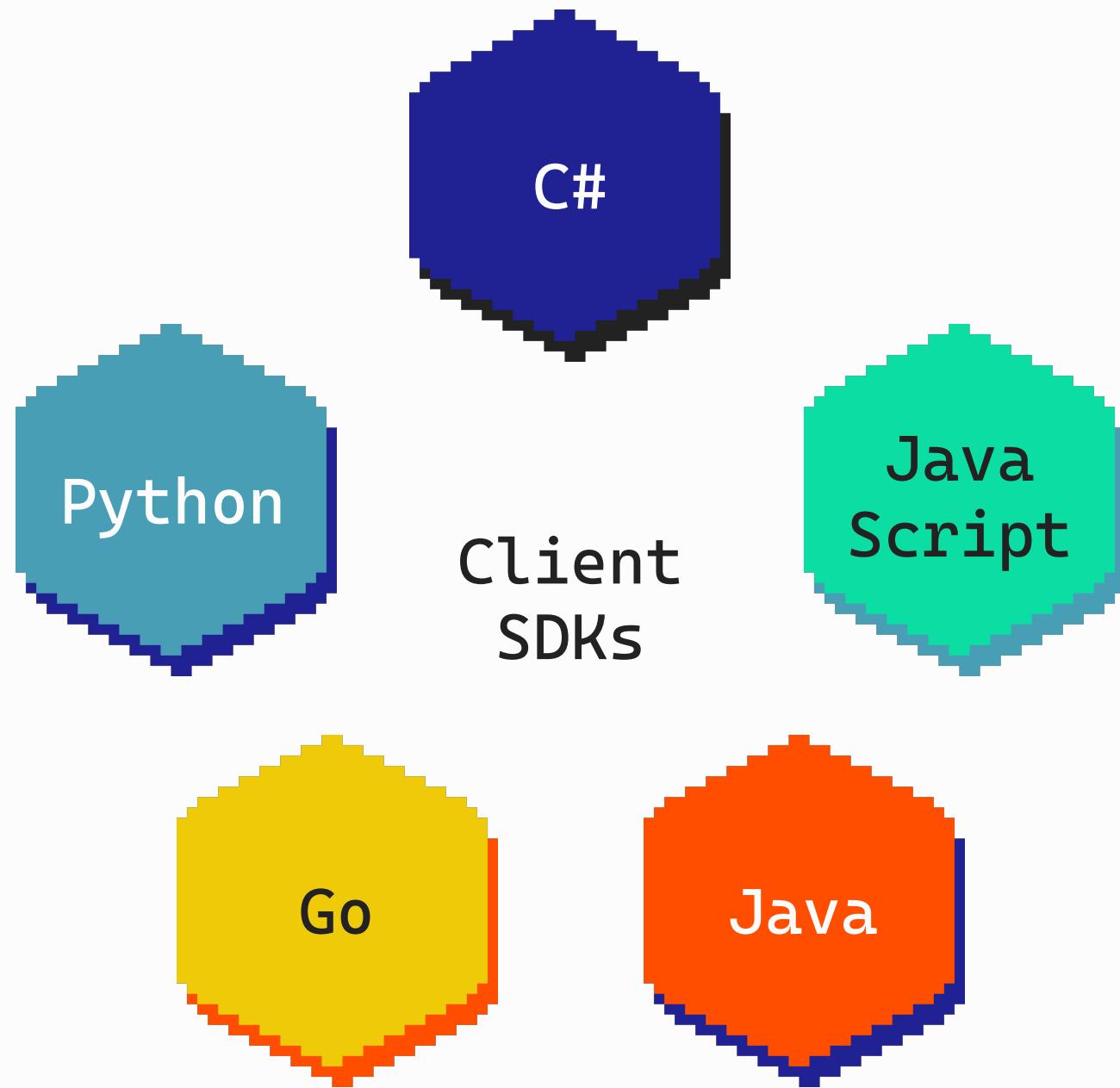
POST http://localhost:3500/v1.0/**invoke**/cart/method/order

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

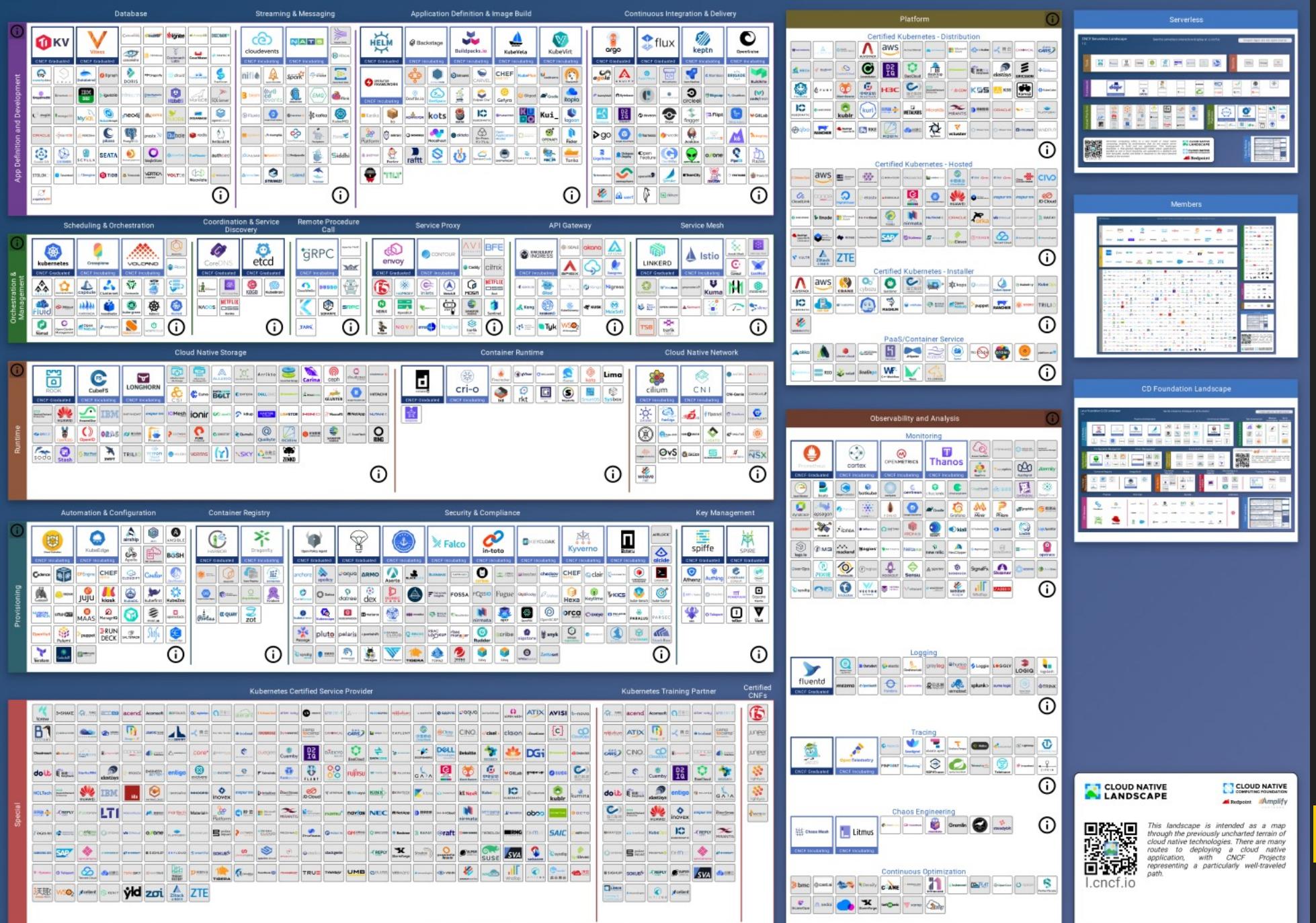


Dapr project

**Submitted
to CNCF
Nov 2021**

**Incubation
maturity
level**

**10th largest
CNCF project**



@marcduiker

Contributing organizations



Microsoft



vmware®



Alibaba Cloud



HashiCorp



HUAWEI



BOSCH

Dapr users



FUJITSU CLOUD TECHNOLOGIES LIMITED

Dotmatics

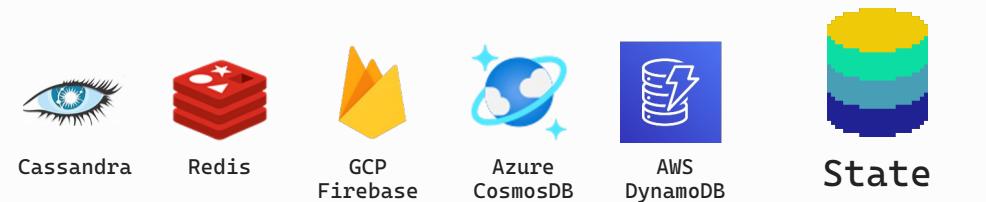
at bay



wortell

IGNITION
GROUP

Building BloxknARFs



State Management



Publish & subscribe



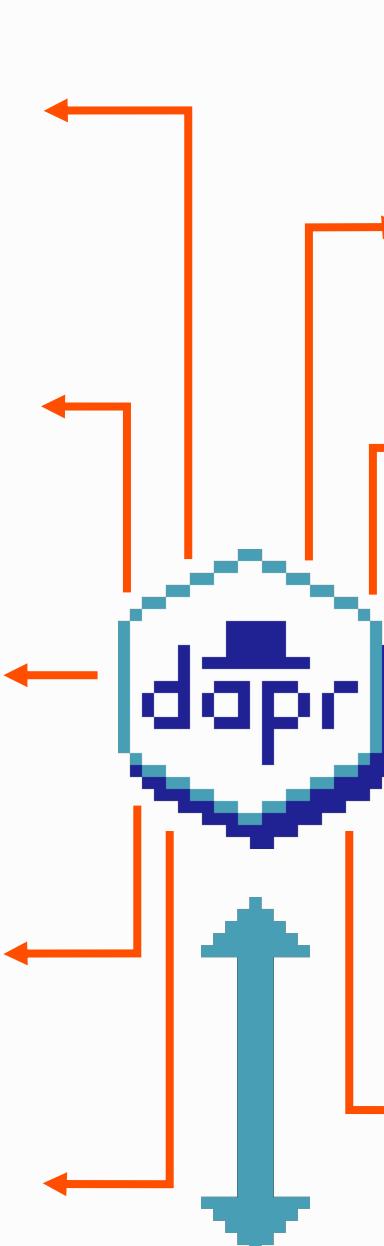
Secret Stores



Actors



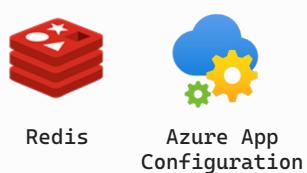
Bindings



Observability



Configuration

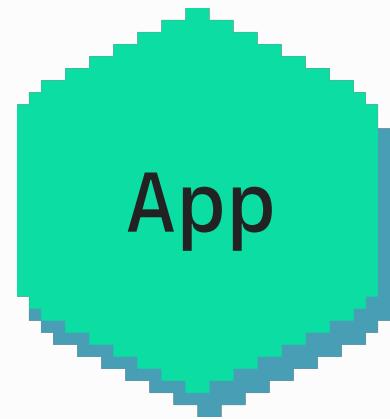


Distributed Lock



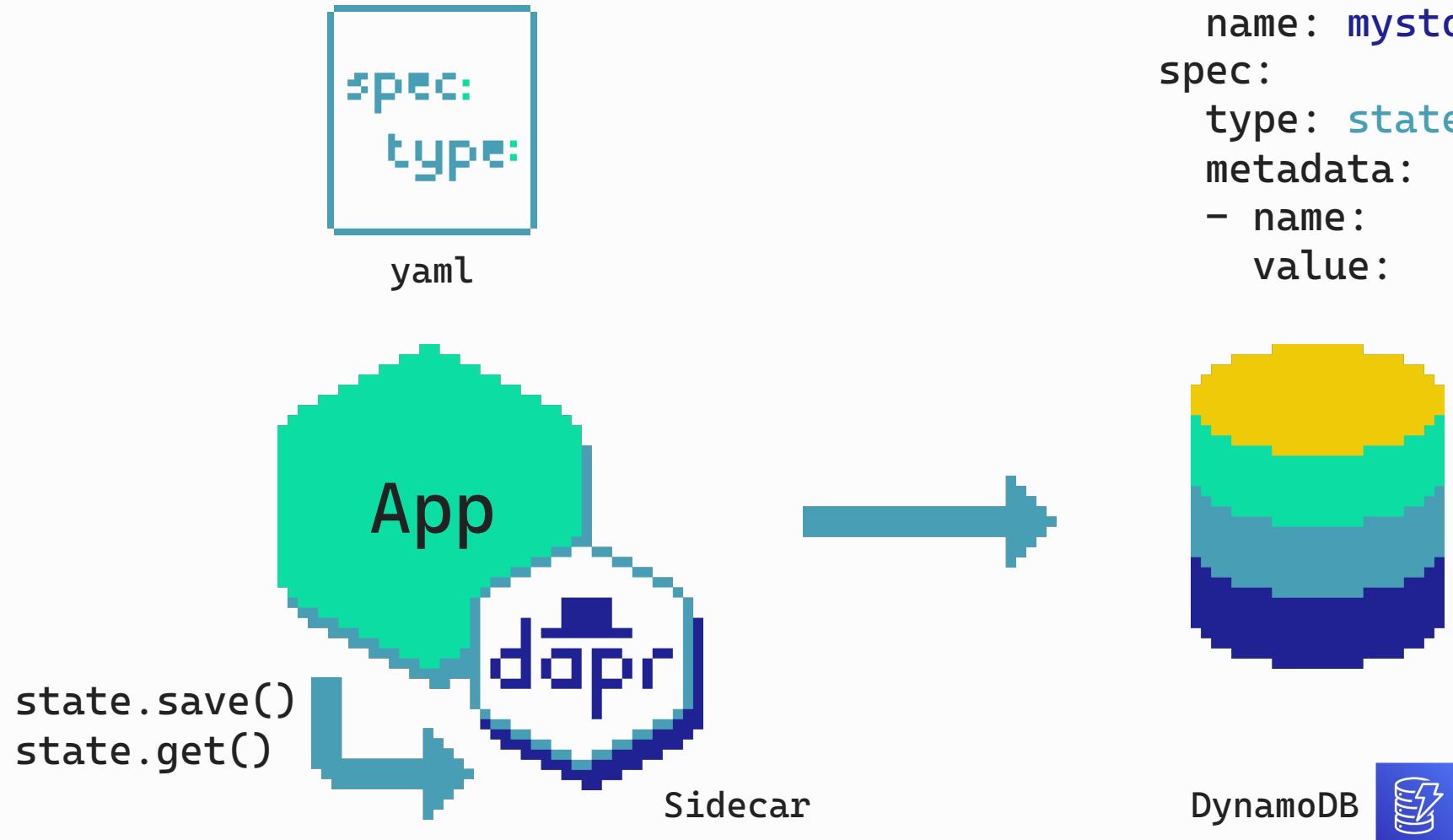
Workflows



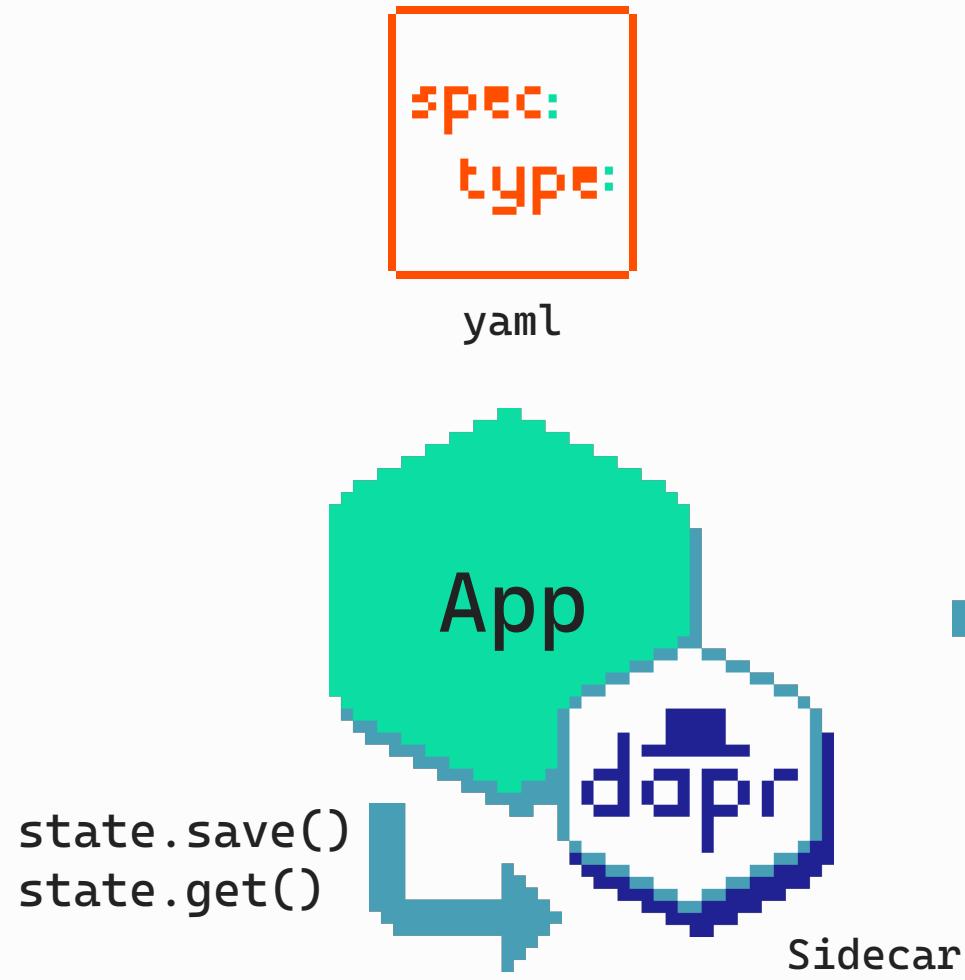


DynamoDB 

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

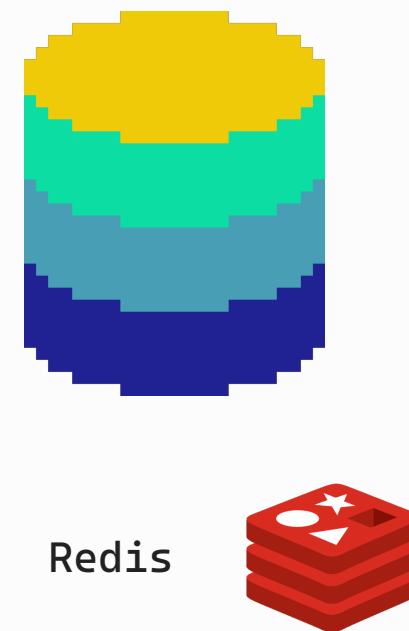


```
metadata:  
  name: mystorage  
spec:  
  type: state.aws.dynamodb  
  metadata:  
  - name:  
    value:
```



yaml

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



When to use Dapr?

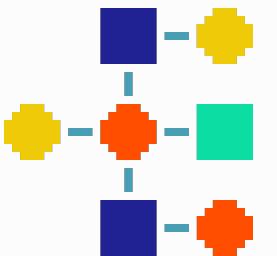
You are in a large organisation
with many different teams or
tech stacks.

Greenfield projects: postpone your architecture decisions.

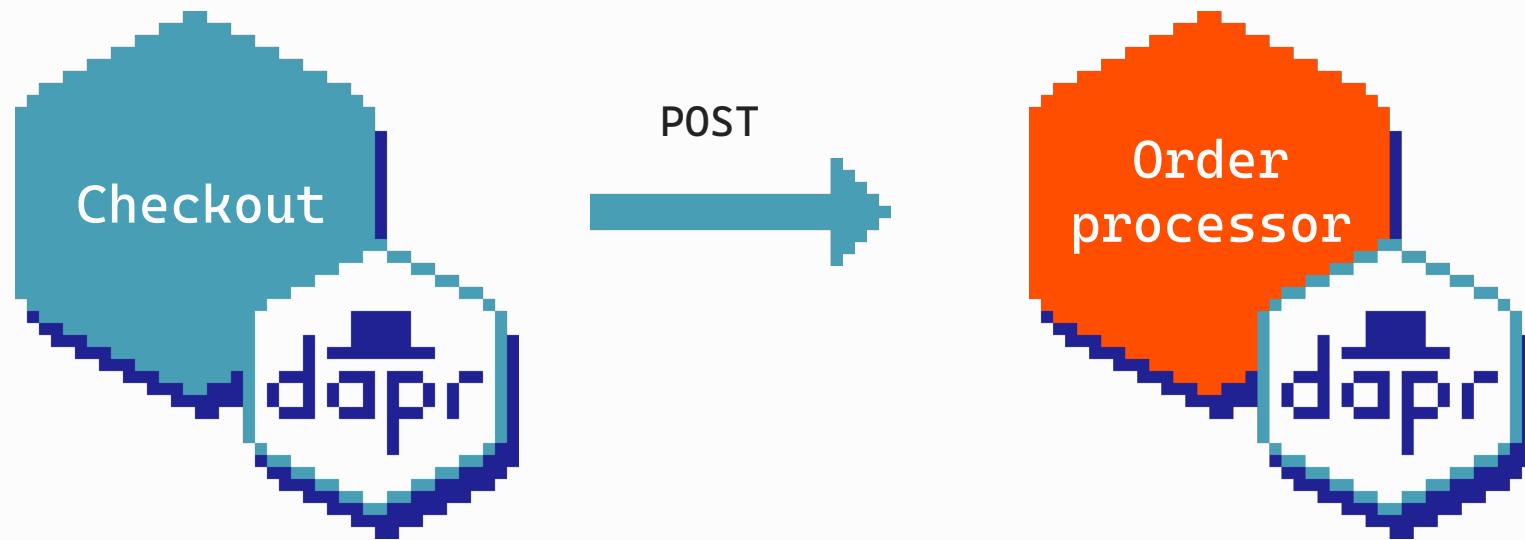
When not to use Dapr?

If your team is allergic to
containers & Kubernetes ;)

Building block demos

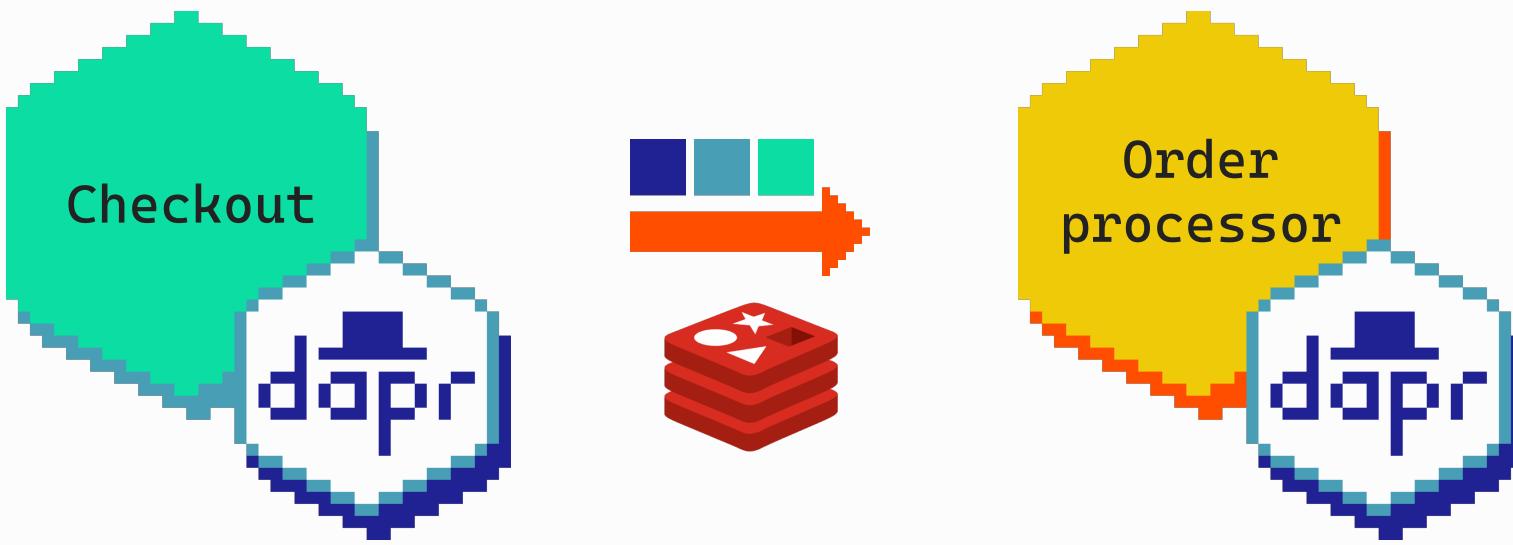


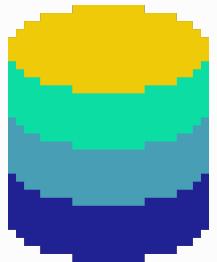
Service
invocation



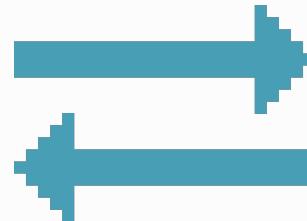
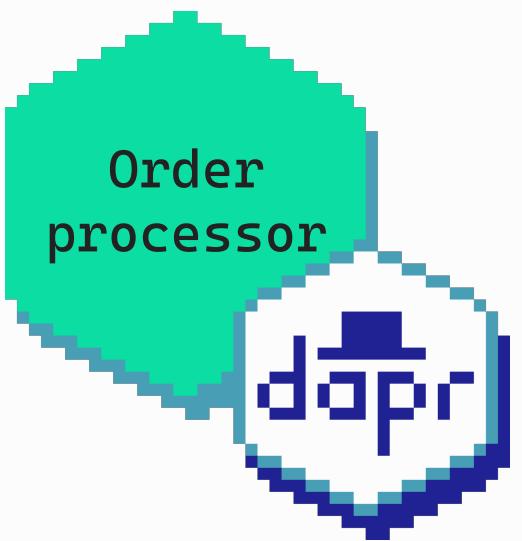


Publish &
subscribe





State
Management



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



Join the Dapr Discord!

bit.ly/dapr-discord

