

Integrating with External Services Using Bindings



Mark Heath

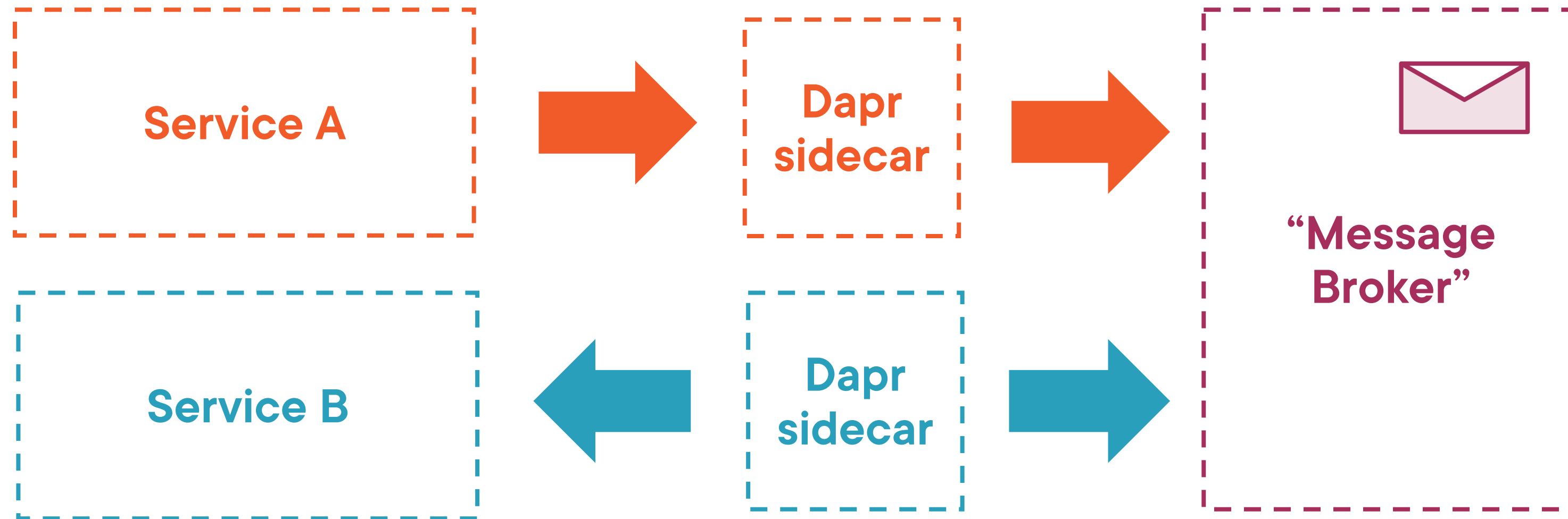
Software Architect

@mark_heath www.markheath.net



Understanding Bindings

Pub sub recap:



The Dapr sidecar can talk to external services on our behalf

The Dapr sidecar can notify us of events in an external service



Module Overview



Dapr bindings

- Input bindings
- Output bindings

Binding component configuration

Using bindings in GloboTicket

- SMTP output binding to send an email
- Cron input binding for scheduled task



Output bindings allow us to
make requests to external
services



Input bindings pass on
notifications from external
services



Interchanging Bindings



Interchanging Bindings

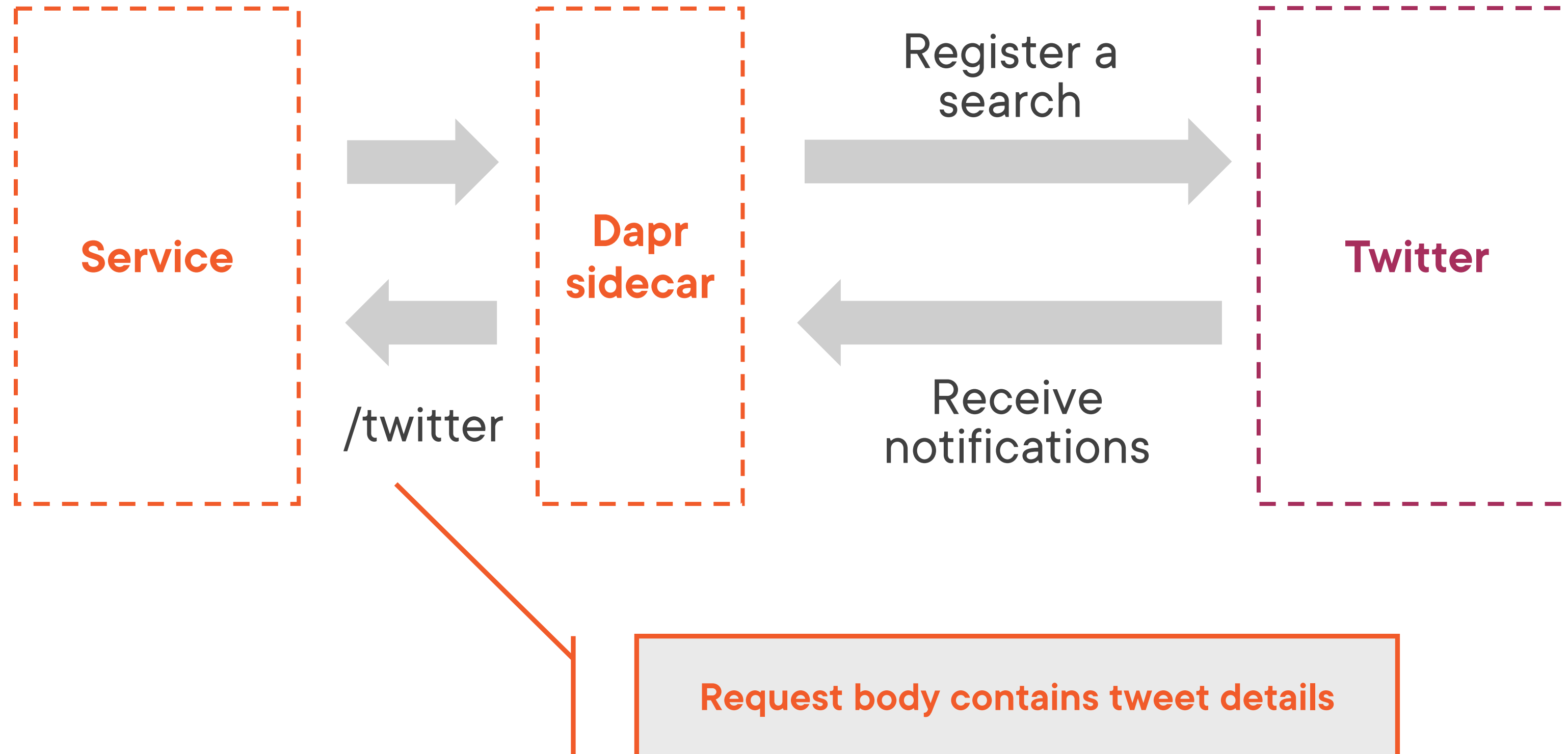


Not all external services support the same features

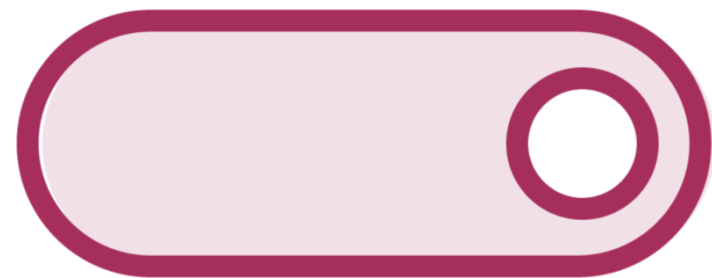
Bindings simplify the code we write to connect to external services



Twitter Input Bindings



Dapr Bindings are Optional



Dapr bindings simplify connection to external services

Dapr bindings are optional

Dapr bindings may not expose the full feature set of the external service



Demo



Using a Dapr output binding to send email

- SMTP binding
- Send a confirmation email to the ticket purchaser



Demo

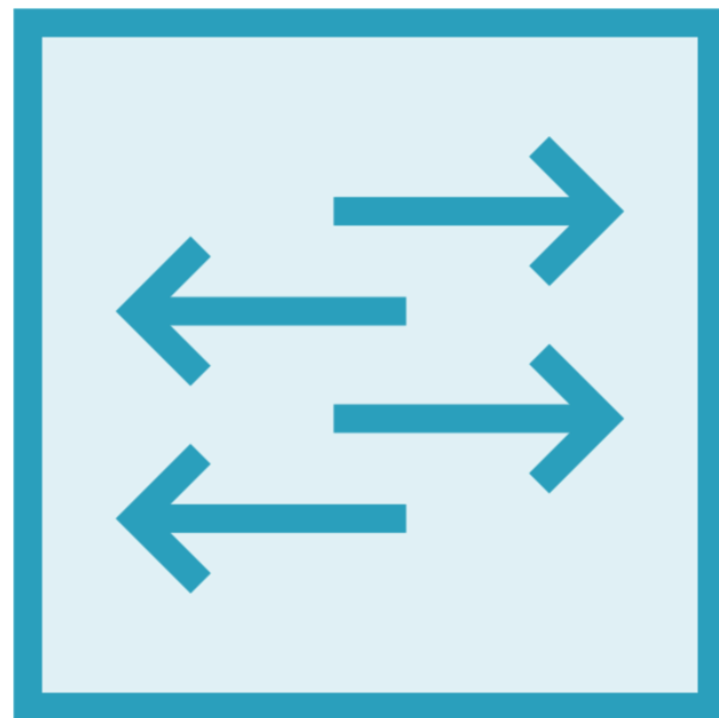


Test sending an email

- View email in maildev
- Use maildev on Kubernetes



Switching Bindings for Production



Connect to a real SMTP server

Use the SendGrid binding

No code changes required!

- The component name (e.g. “sendmail”) remains the same

Demo



Use the Dapr cron input binding

- Run a scheduled task
- Implement a “special offer” feature



Summary



Simplify communication with external services

Input bindings

- e.g. Twitter search, scheduled tasks

Output bindings

- e.g. SendGrid, SMTP

Many bindings are available

- And the list is growing

Up Next:

Monitoring in Production with Observability

