KubeCon
CloudNativeCon
North America 2022
BUILDING FOR THE ROAD AHEAD
DETROIT 2022
TiKV
TiKV

Title

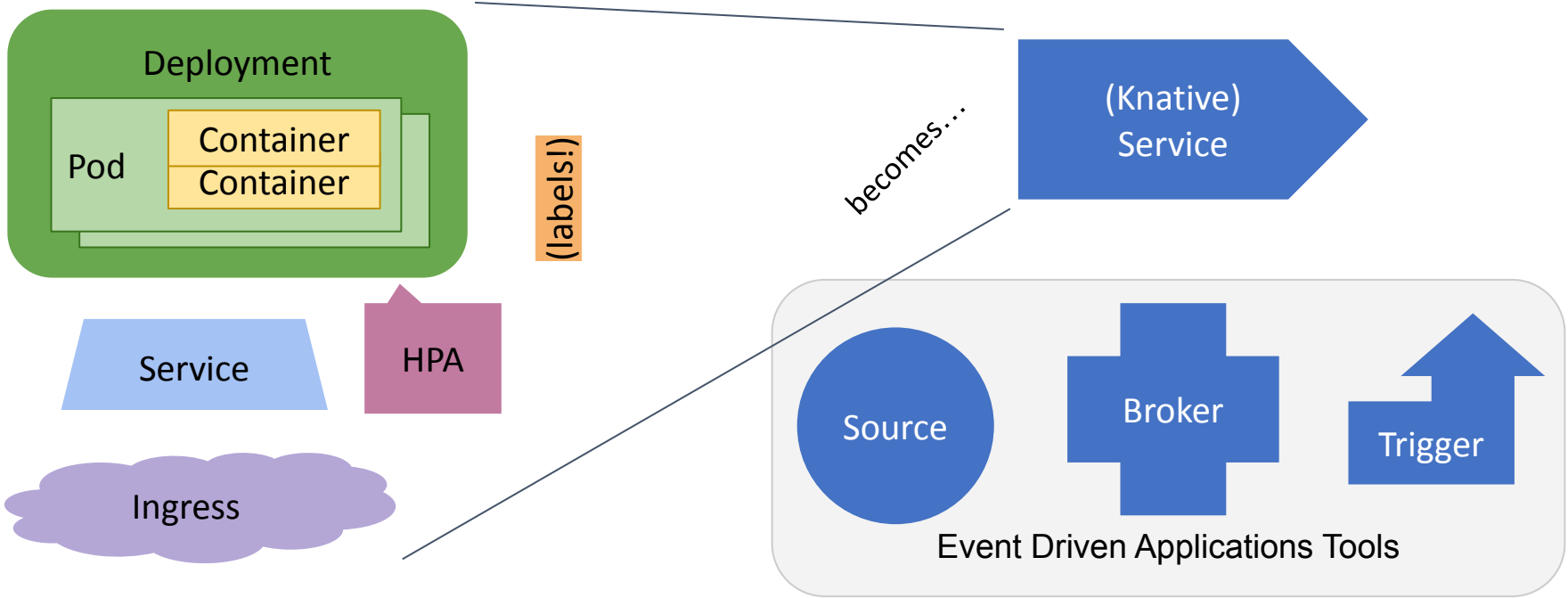
Agenda Notes: 35 mins
Deadline to submit slides- Oct 14

- Few slides and talking for 8 mins background (Introduction) - Evan
  - Life of a serving request
  - Life of an event
  - Life of a functions
- show how all pieces of knative comes together (so that people can ask more questions) - Lance 5-8 mins
- Discussion 15 mins for broader discussion
- Prepared questions to be asked(not part of slides) - Salaboy and Naina (Link to doc)

Why is Knative?

Knative: Serverless Tools for Kubernetes

Simplify application development and deployment, reduce developer toil and cognitive overhead.



Serving: Under the Hood

Automatic HTTP Services

If you have a container that speaks HTTP:

Scale based on requests in flight

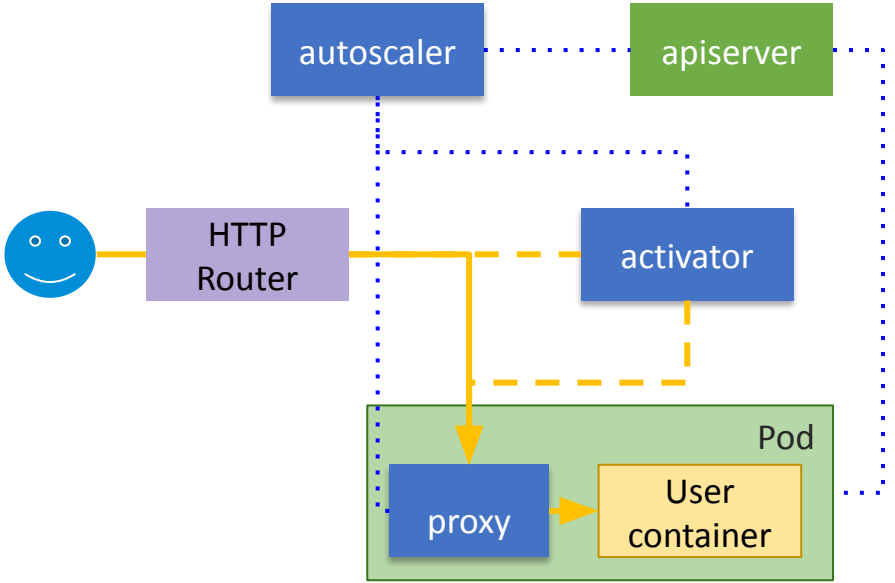
Roll out by traffic percentage

Automatic revision tracking

Automatic health checks

Automatic TLS provisioning

Automatic HTTP(S) URL provisioning

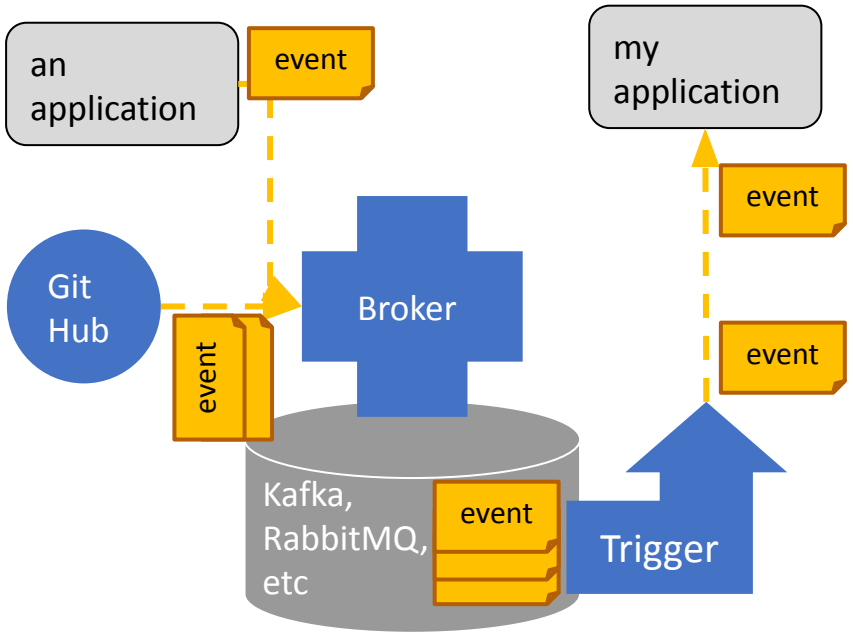


Eventing: Under the Hood

Declarative, Event-Driven Applications

CloudEvents-over-POST (HTTP):

Declarative Kubernetes resources
Manage application events
Collect events from infrastructure
Route events by attribute
Manage retries and dead-letter
Pluggable event storage
(Kafka, RabbitMQ, NATS, memory)

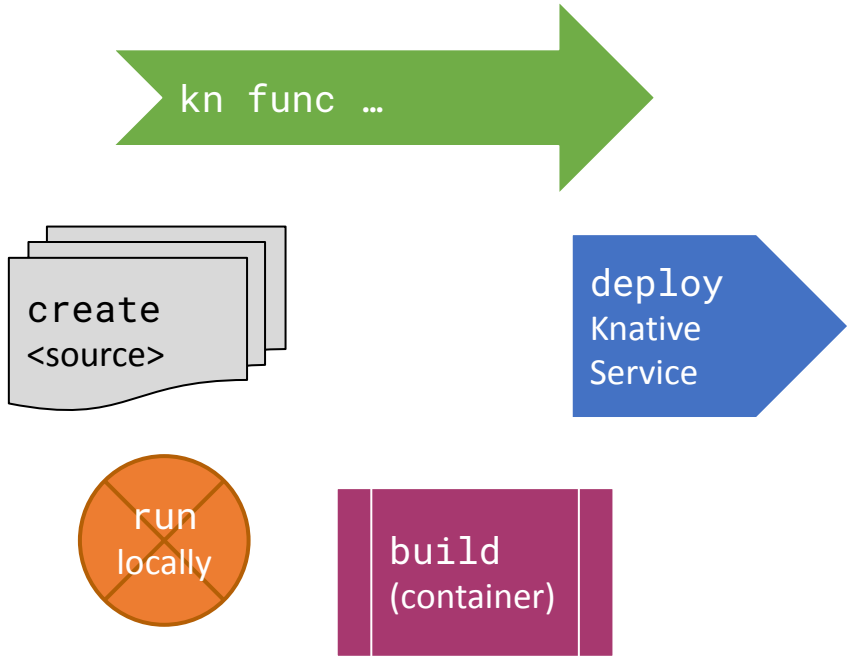


Functions: Under the Hood

Simplifying Code → Container

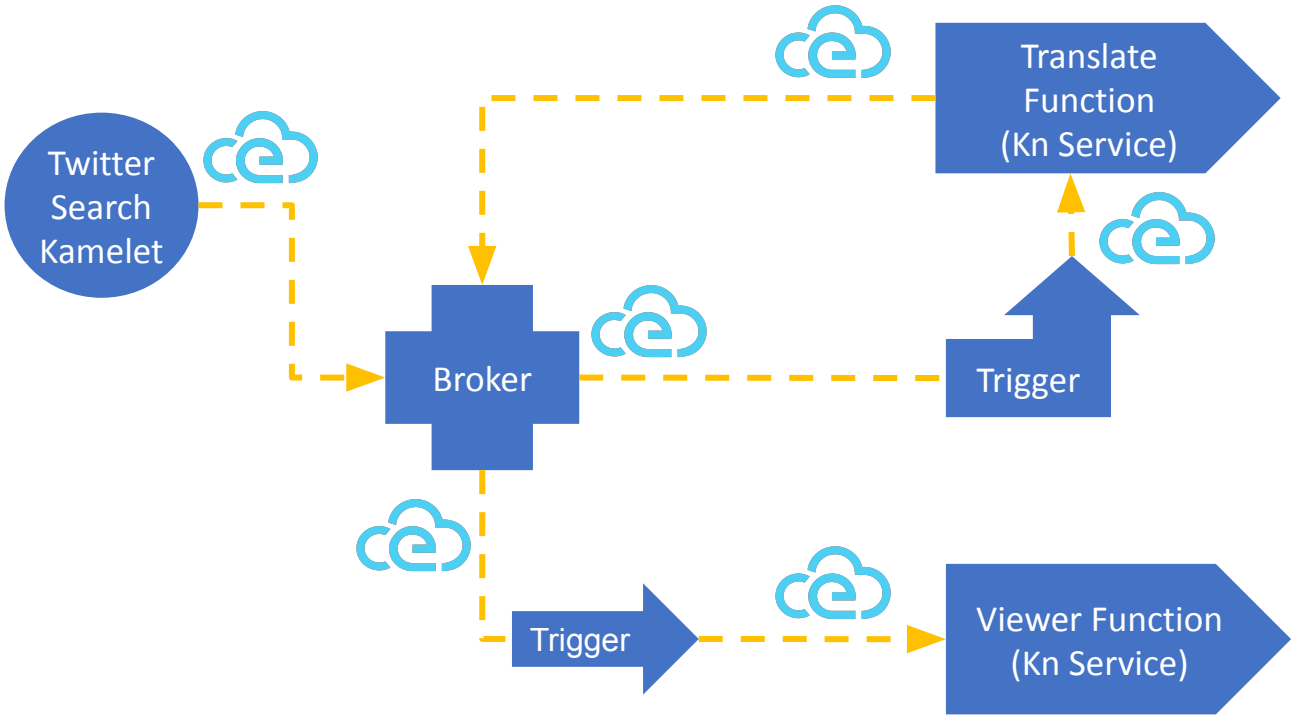
In the language of your choice:

Quick get-started template
Avoid wrangling HTTP libraries
Handle POST requests
Handle CloudEvents
Build standard container images
Build without Docker



Bringing it together with a demo

Twitter Bot Event Flow



Panel Discussion

Naina Singh
Principal Product Manager
Red Hat

Mauricio Salatino
Staff Engineer
VMware

Evan Anderson
Software Engineer
VMware

Lance Ball
Principal Software Engineer
Red Hat

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October 24-28, 2022

How to get involved, ask questions or lurk 😉

- Slack community to ask questions and provide feedback https://slack.knative.dev/
- Google group to get insiders scoop. https://groups.google.com/g/knative-dev
- See what is happening and when on Knative Community Calendar
- See who is using or providing solution using Knative at Knative Adopters