



# Knative

An introduction to serving and  
eventing

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# Knative Components

# Components

- Knative has three different components:
  - Build
  - Serving
  - Eventing
- Knative Build is the build framework for building container images on Kubernetes, we're not going to talk about it in this presentation since there are under our opinion better alternatives out there, like Tekton CI.
- Knative Serving is the serverless framework used to deploy services into our Kubernetes cluster and provide serverless capabilities to them.
- Knative Eventing is the framework used to enable late-binding event sources and event consumers.



# Demo 1

Create a Serverless service

An abstract graphic on the left side of the slide, rendered in various shades of red. It features stylized server racks at the bottom, a database cylinder in the middle, and a network of arrows and nodes at the top, suggesting a complex system architecture.

# Demo 2

Configure traffic splitting to  
the serverless service



# Knative Serving

# Serving

- Three main features:
  - Rapid deployment of serverless containers.
    - You get a Service, Route and Revision automatically.
  - Automatic scaling up and down to zero.
  - Revisions snapshots.
    - Allows to configure traffic splitting between revisions.

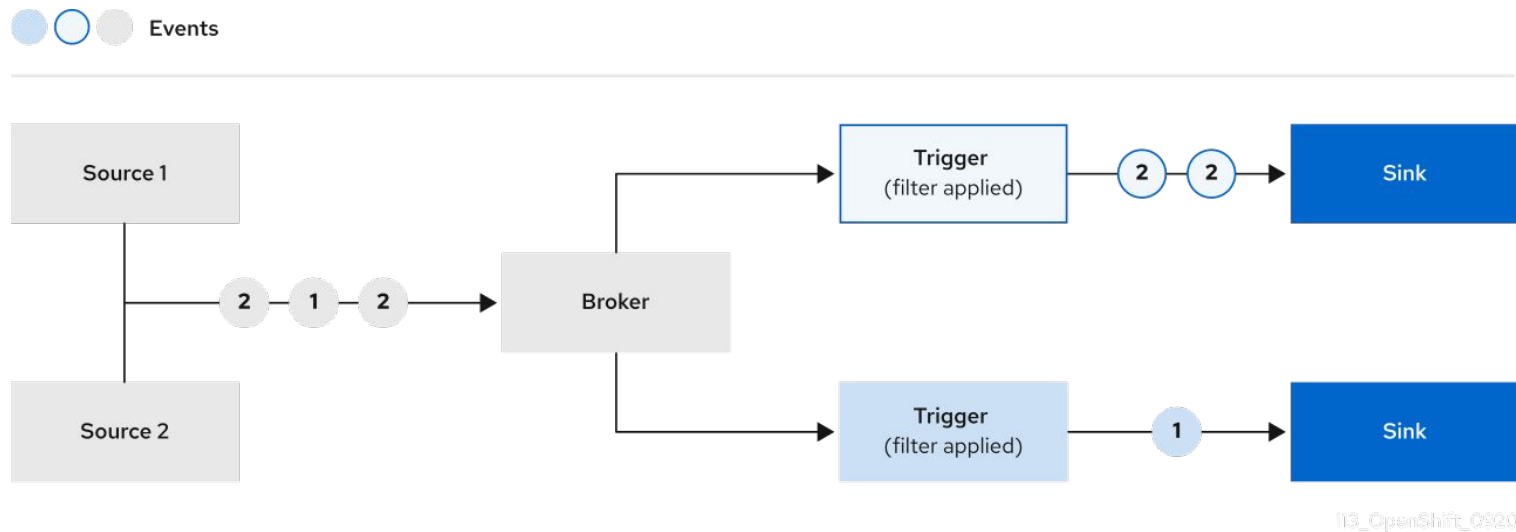


# Knative Eventing



# Eventing

- Event producers and consumers are independent:
  - Producers can generate events even if there are no consumers.
  - Consumers can listen to events even if there are no producers.
- Events can be modified and forwarded to multiple consumers.
- There are several event sources one can use, you can check the whole list [here](#).





# Demo 3

## Custom eventing app



# Demo 4

Consuming events from the  
ApiServer

# Resources

- <https://github.com/RHsyseng/telco-operations/blob/main/knative/README.md>
- <https://knative.dev/docs/getting-started/>
- <https://knative.dev/docs/eventing>
- <https://knative.dev/docs/serving/>
- <https://knative.dev/docs/eventing/sources/apiserversource/getting-started/#creating-an-apiserversource-object>
- <https://knative.tips/>



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