

CDEvents Visualisation

Why do we want to visualise CDEvents?

- Trouble shooting
- Monitoring
- Tracking
 - End to End Flow
- Demonstration
- Promotion
- Understanding

Types of Visualisation

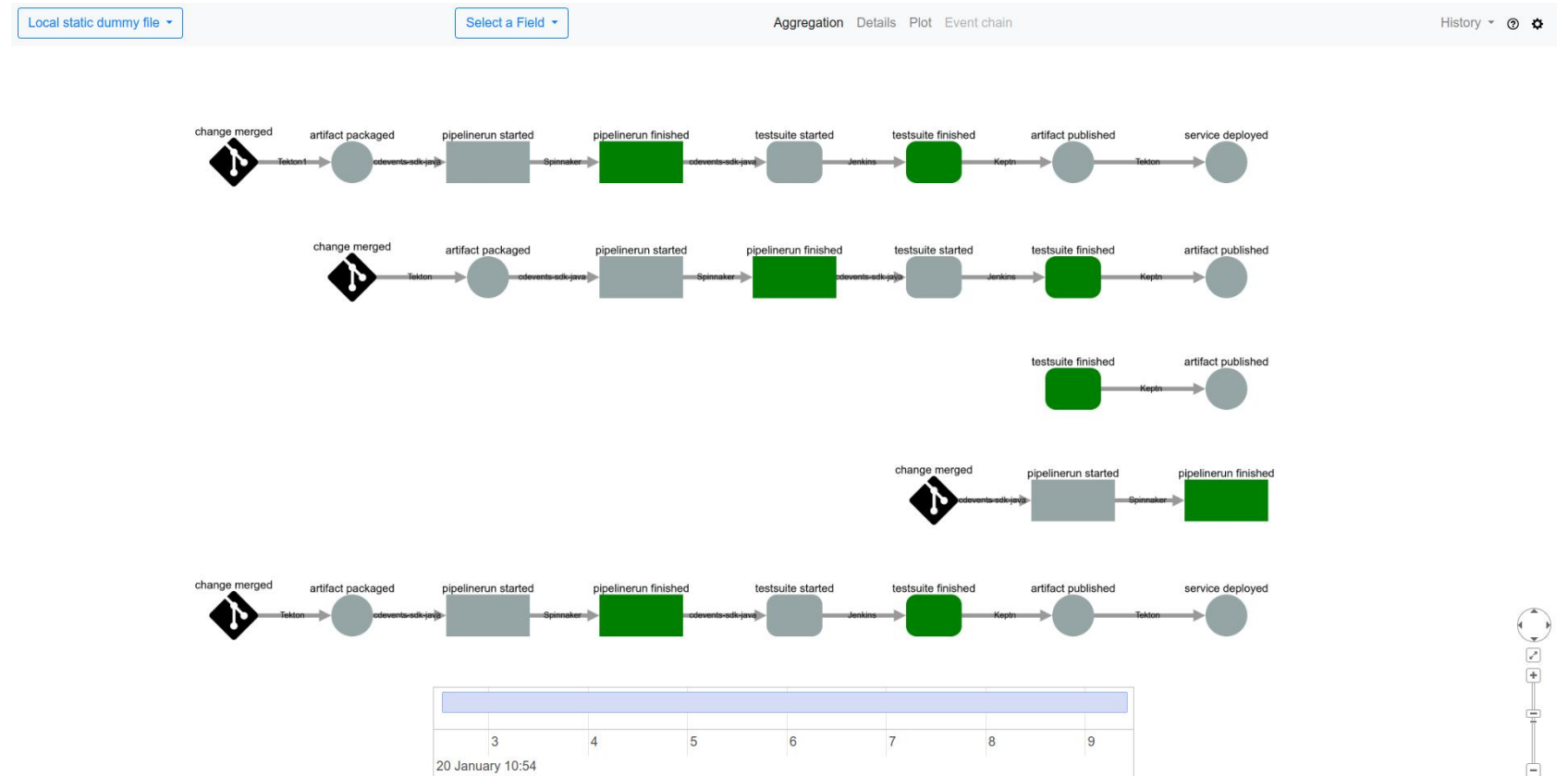
- CDEvents aware
 - Knows what a CD Event is
 - Knows what a "sequence" of CD ends could be
- Generic
 - Use Prometheus/Grafana/Loki/NodeApi

CDEvents aware Tooling Demo

- We assumed there would be an Event "linking" solution
- This tool is 100% just to prompt discussion we don't expect it to be the end solution as we chose an old tech start as a starting point.

Aggregation Graph

- High level view of parsed CDEvents.
- Shows sequences based on source and events.
- Targets (arrows) are based on proposed linking.



Details

- Clicking on a node (event) brings you to detail page.
- Shows further details on clicked node from aggregation graph.
- Shows all Events of clicked type in a table view.

Local static dummy file

Select a Field

Aggregation Details Plot Event chain

History ⓘ ⚙

Show 20 entries

Search:

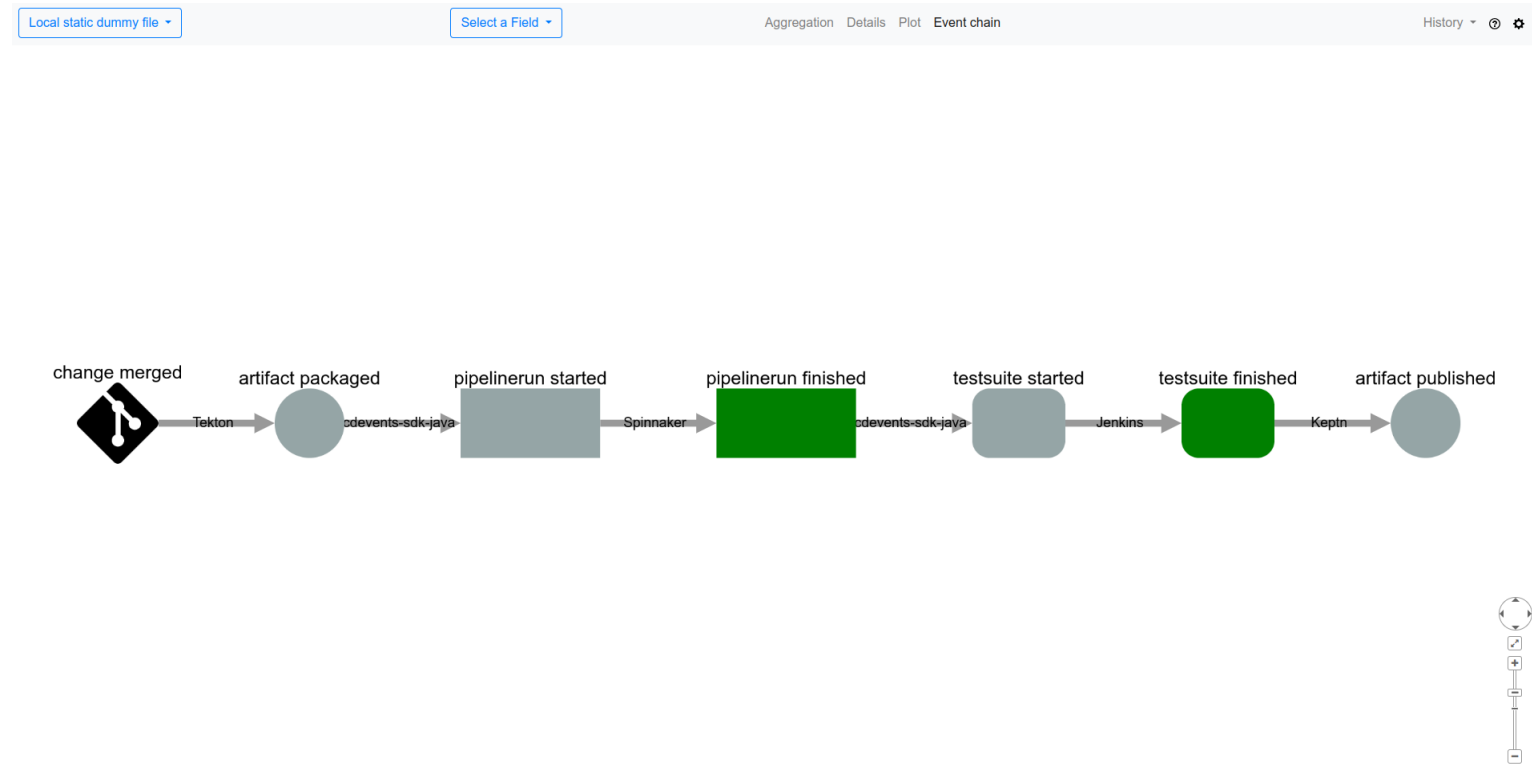
Chain	Type	Time	Source	sequence
Graph	dev.cdevents.pipelinerun.started.0.1.0	1970-01-20, 10:54:09	cdevents-sdk-java	Sequence 1
Graph	dev.cdevents.pipelinerun.started.0.1.0	1970-01-20, 10:54:09	cdevents-sdk-java	Sequence 2
Graph	dev.cdevents.pipelinerun.started.0.1.0	1970-01-20, 10:54:09	cdevents-sdk-java	Sequence 2
Graph	dev.cdevents.pipelinerun.started.0.1.0	1970-01-20, 10:54:09	cdevents-sdk-java	Sequence 3
Graph	dev.cdevents.pipelinerun.started.0.1.0	1970-01-20, 10:54:09	cdevents-sdk-java	Sequence 3
Graph	dev.cdevents.pipelinerun.started.0.1.0	1970-01-20, 10:54:09	cdevents-sdk-java	Sequence 5

Showing 1 to 6 of 6 entries

Previous 1 Next

Filtered View

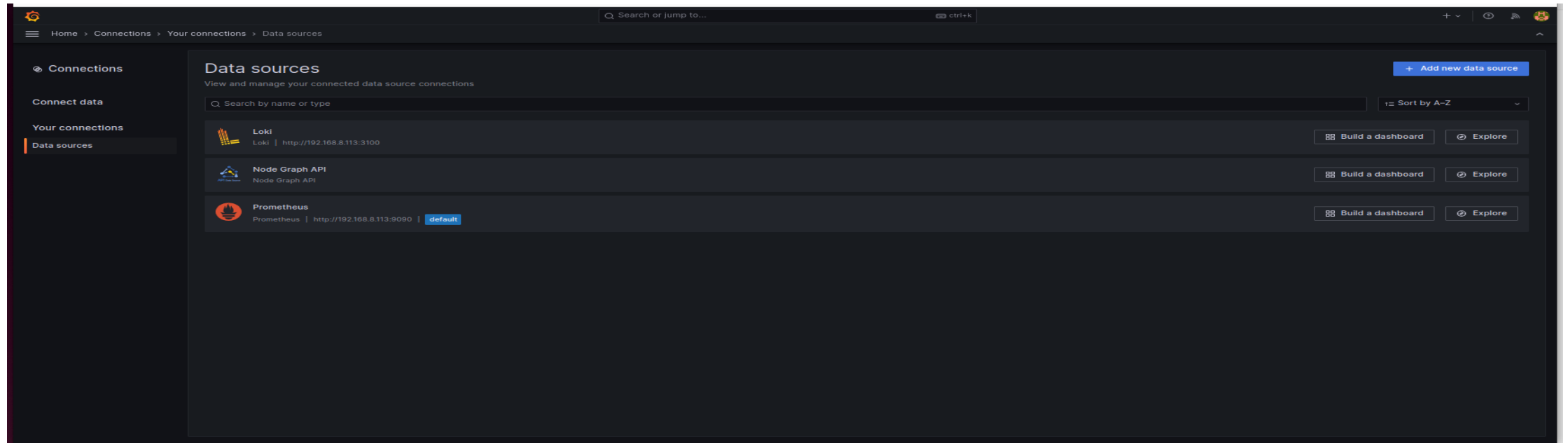
- Clicking on an event in details brings you to a filtered detail.
- Shows all events that share a common value of the chosen field (dropdown)
- Example View is filtered by sequence.



Generic Tooling Demo

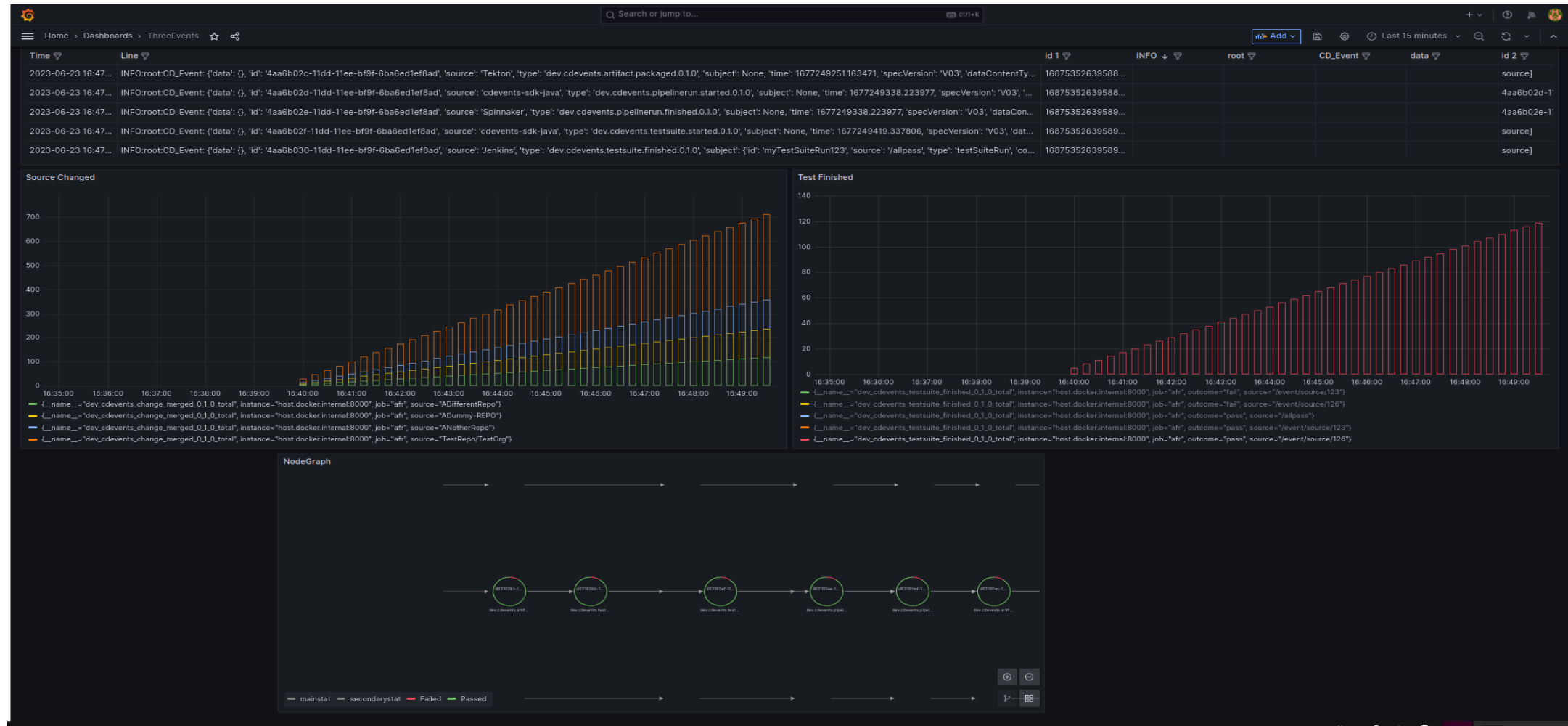
- We assumed there would be an Event "linking" solution
- Using Prometheus/Loki/NodeAPI/Grafana

Generic Tooling Demo

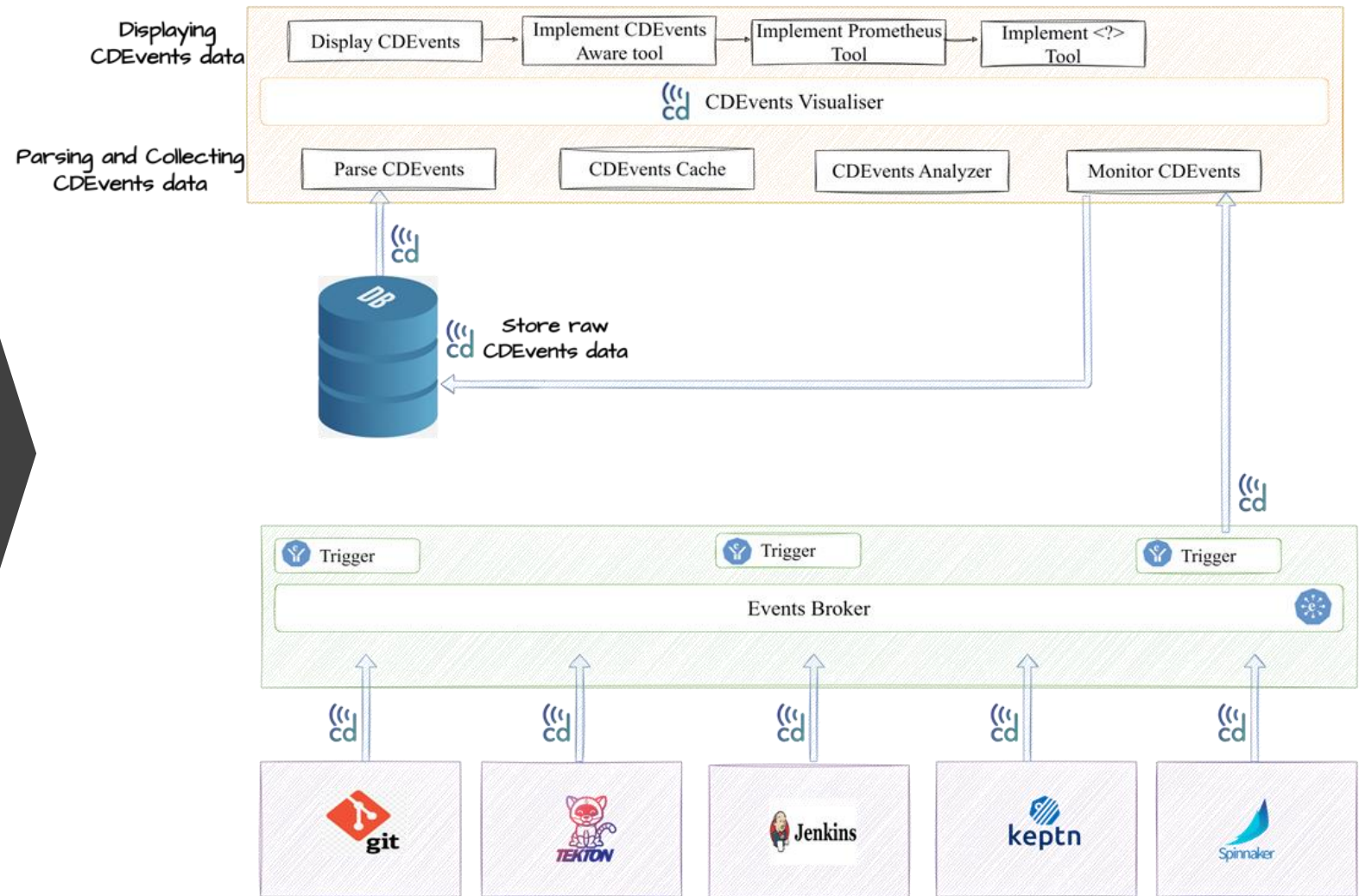


- Define Data sources in Grafana
 - CD events would have to produce the services behind these end-points

Generic Tooling Demo



Reference Architecture



Reference Implementation

- Use existing CDEvents PoC to implement reference architecture
- Visualise events coming from Tekton, Kept and Spinnaker

References

- [Link to Demo](#), types of CDEvents Visualisation
- [Get started with Grafana and Prometheus](#)
- [CDEvents aware visualisation](#)

THANK YOU