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

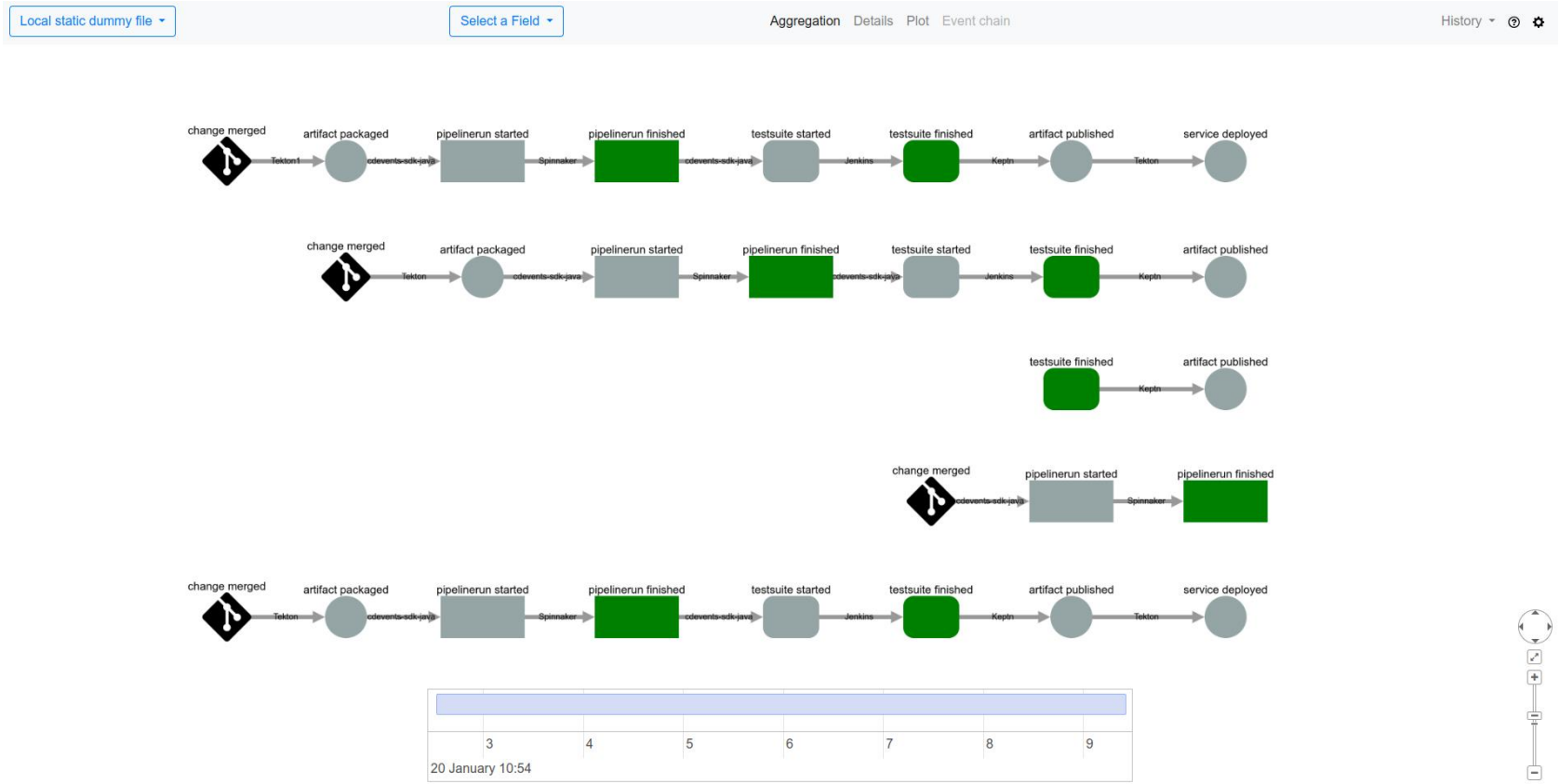
CDEvents aware Tooling Demo

- 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.

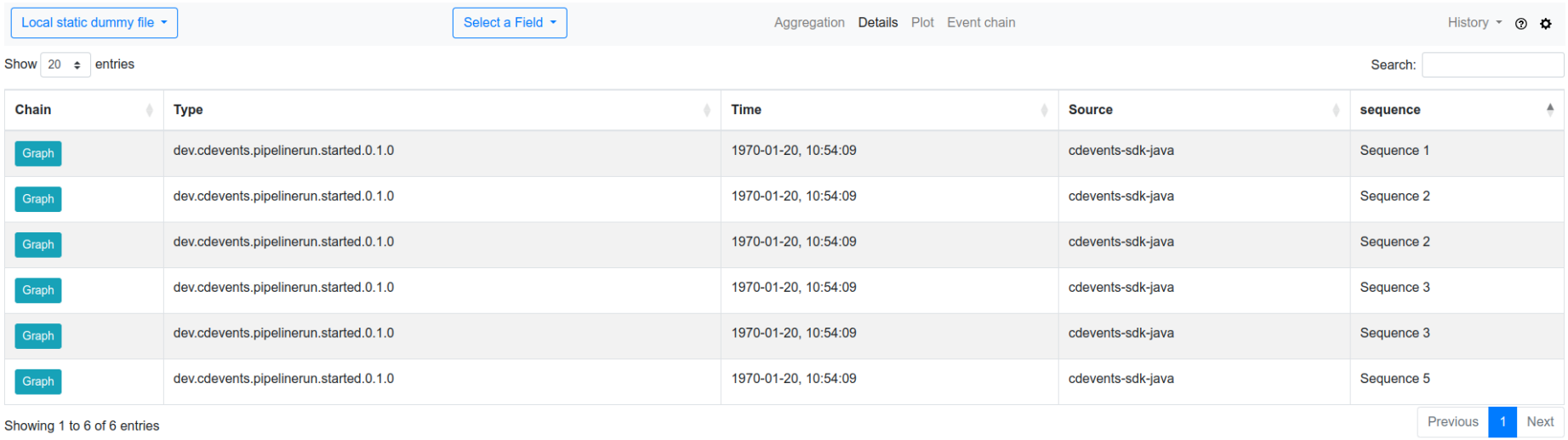
Aggregation Graph

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



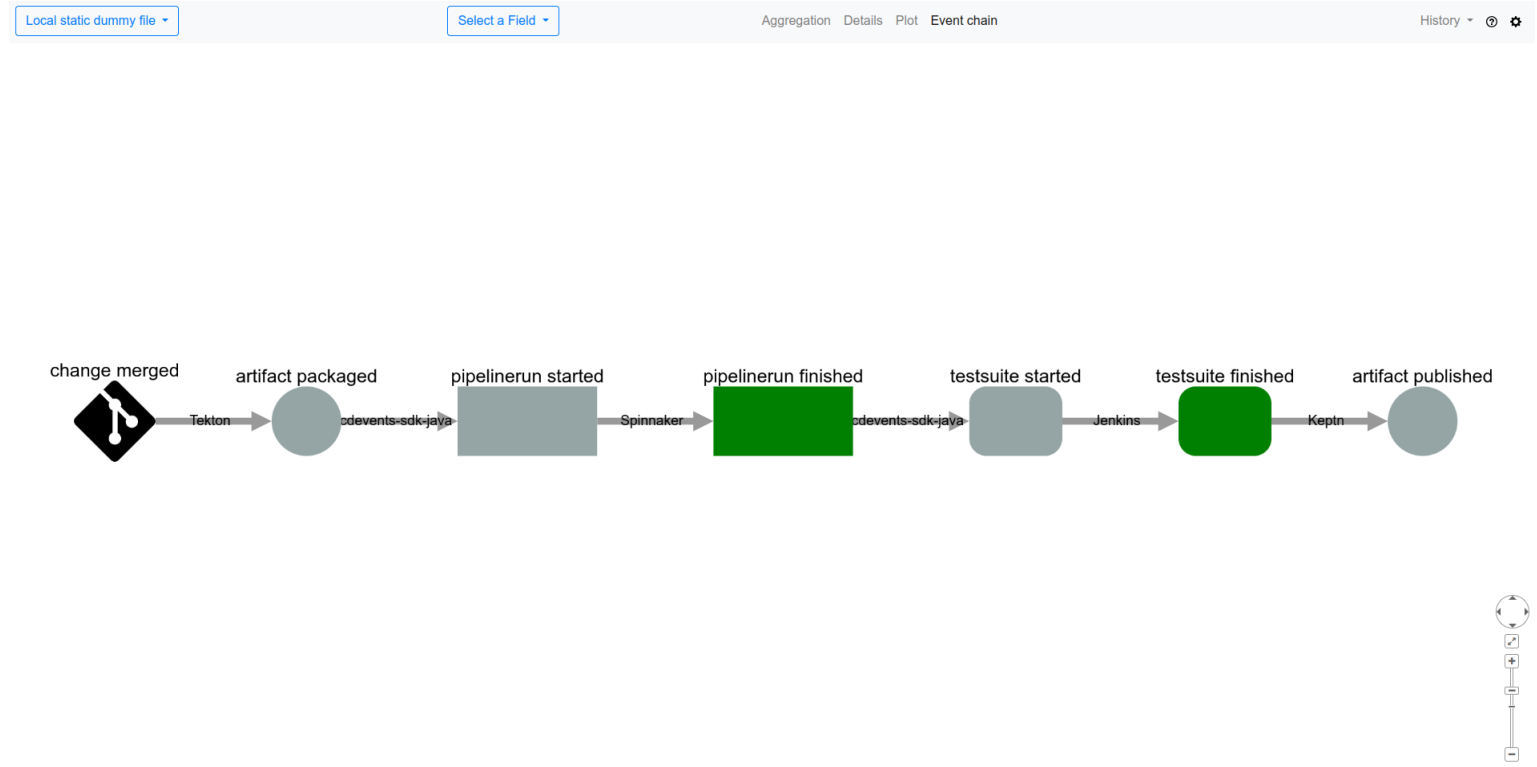
Details

- 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.



Filtered View

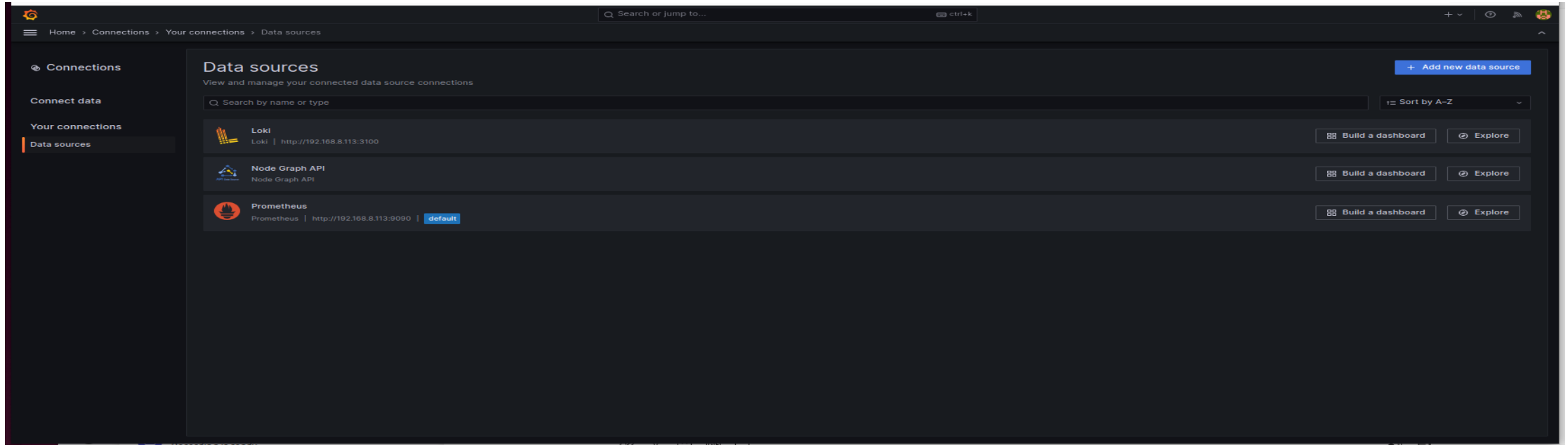
- Clicking on an event in details brings you to a filtered detail.
- Shows all events that share a common value of the chosen field (dropdown)
- Example View is filtered by sequence.



Generic Tooling Demo

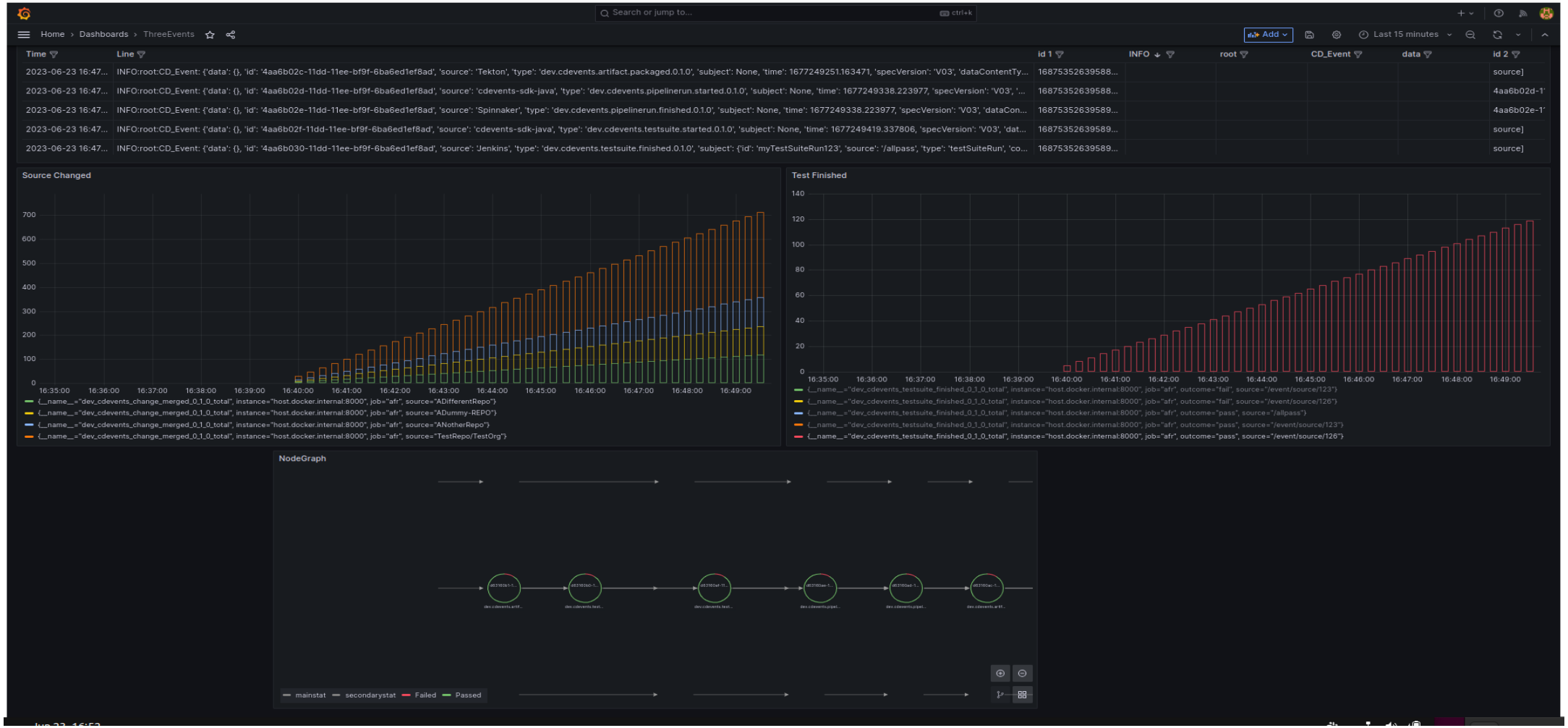
- We assumed there would be an Event "linking" solution
- Using Prometheus/Loki/NodeAPI/Grafana

Generic Tooling Demo

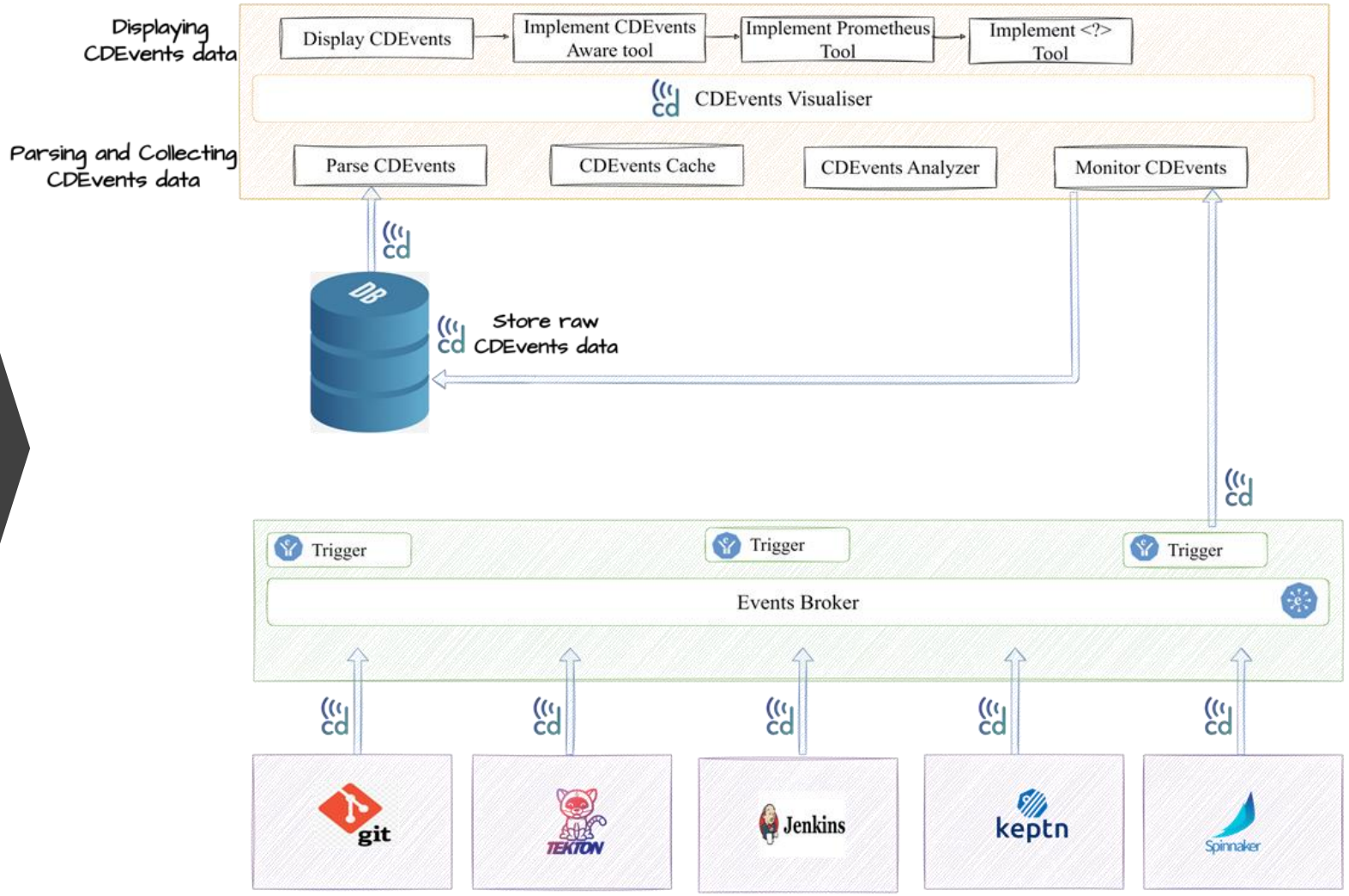


- Define Data sources in Grafana
  - CD events would have to produce the services behind these end-points

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
  - https://youtu.be/RvzRsnxTgXU?t=841
- Get started with Grafana and Prometheus
  - https://grafana.com/docs/grafana/latest/getting-started/get-started-grafana-prometheus
- CDEvents aware visualisation
  - https://github.com/Nordix/eiffel-vici/tree/CDEvents_Demo

THANK YOU