






## Kubernetes Inventory Taker

kit shall be a lightweight tool that empowers DevOps teams to monitor their Kubernetes clusters with ease, providing them with a single platform for inventory visibility, deep insights, real-time analytics, and intelligent monitoring and alerting.



-  Quickly see real-time health states of your infrastructure
-  Identify capacity bottlenecks on CPU & RAM
-  Deep dive into current configurations



Pods



Containers

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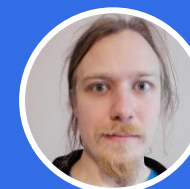
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# Software Architecture

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- Proxy
  - The Proxy is responsible for reflecting the state of the K8s cluster into the relational DB. It uses the K8s client libraries to interact with the API server and the Bun ORM framework in connection with the Golang Postgres Driver to insert data into the DB.
- Explorer
  - The user facing web service consists of a next.js frontend application and a next.js router, which is responsible for loading the current state from the DB and sending updates to the existing clients.
  - The frontend is then responsible for displaying the data in a variety of views, allowing the user to explore the current state of a cluster.

