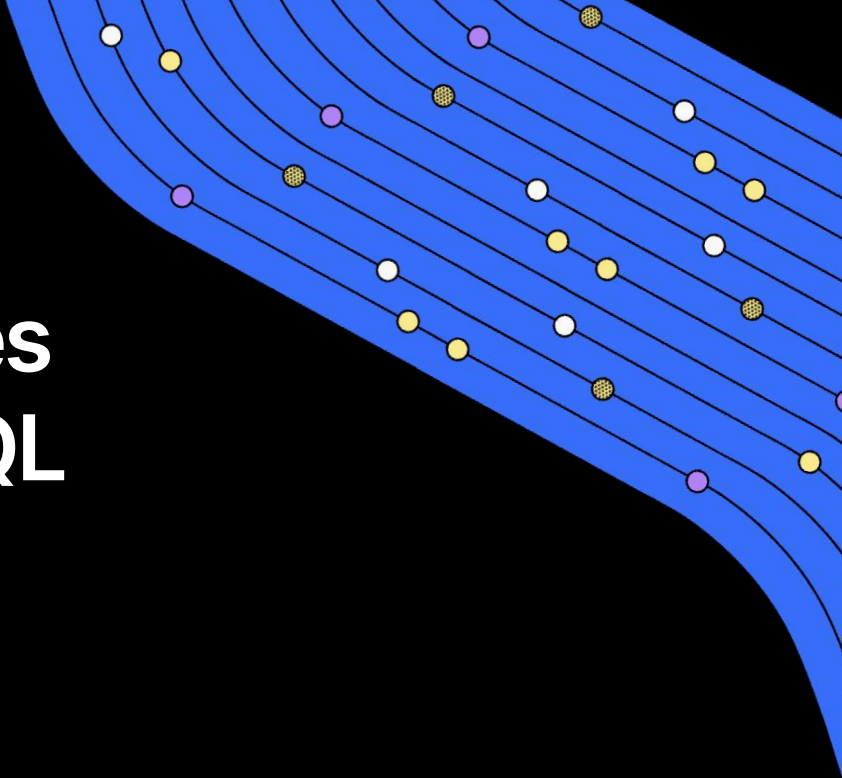


Empowering Kubernetes Workloads with GraphQL

Unleashing Efficiency and Flexibility

Akshay Bhat

Leading Developer Advocacy at Hasura



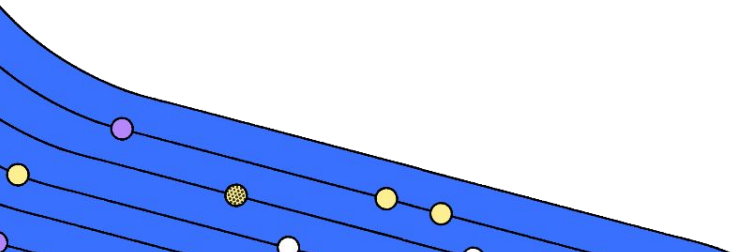
Akshay Bhat

- Developer Advocate at Hasura
- Speaker at many tech conferences
- Developer from the root
- Serial tech entrepreneur
- Open source champion
- Community driven



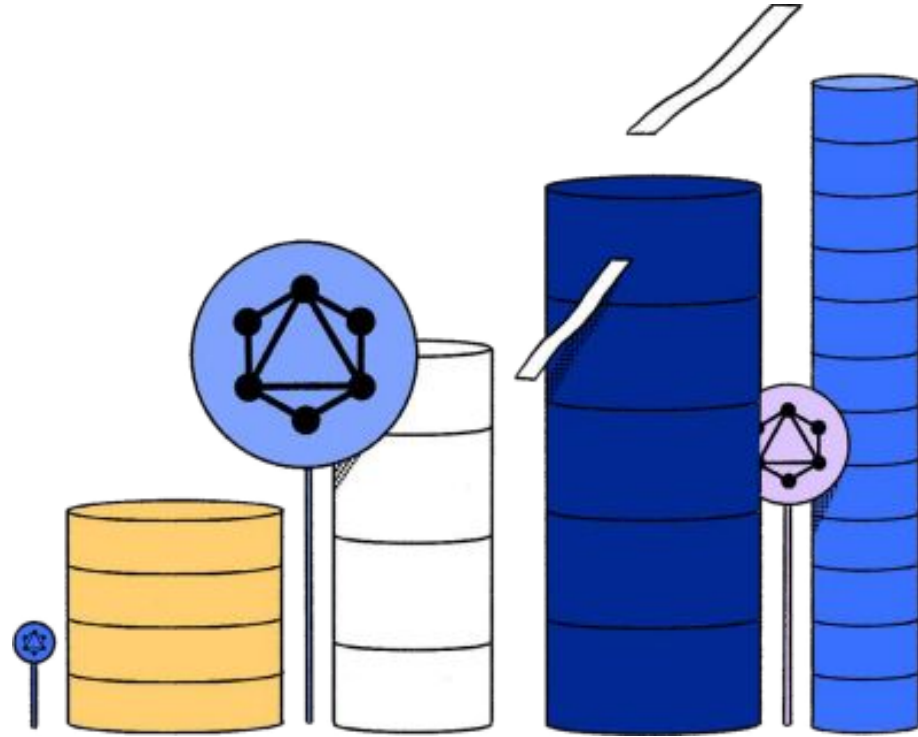
akshaybhat2012@gmail.com

[linkedin.com/in/akshubhat/](https://www.linkedin.com/in/akshubhat/)



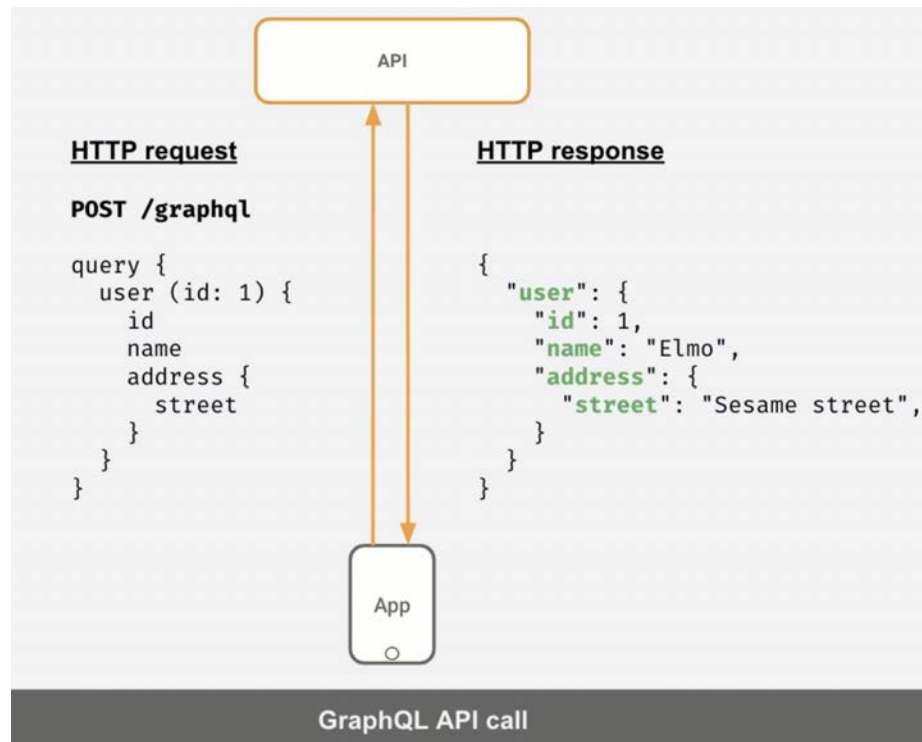
Agenda

- GraphQL
- Kubernetes
- Efficiency of k8s
- Flexibility of GraphQL
- Case studies
- Hasura



The Power of GraphQL

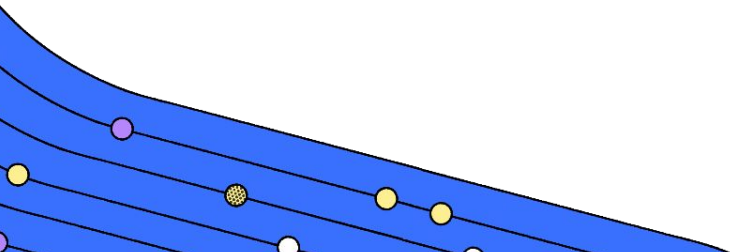
- GraphQL is a query language
- GraphQL vs REST



GraphQL benefits

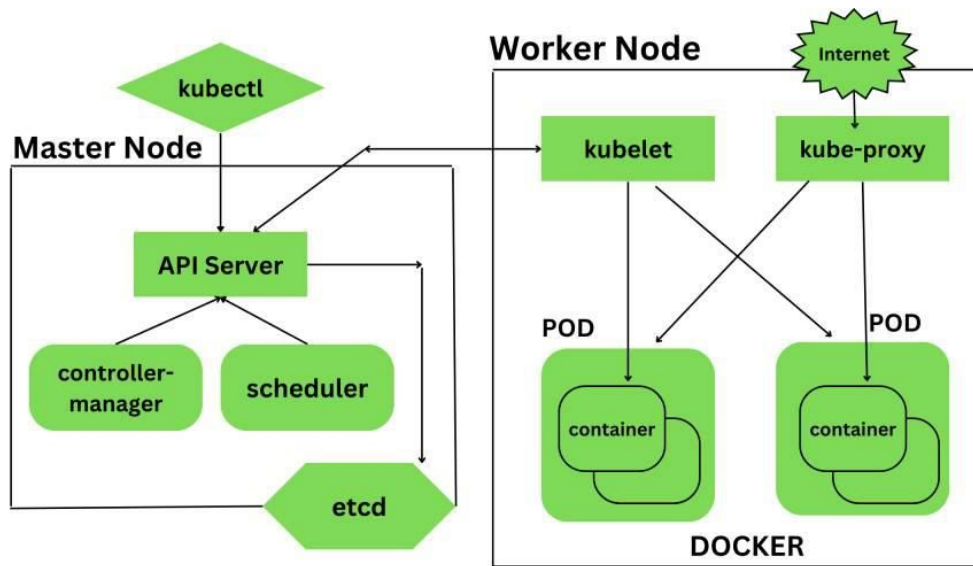
- Avoid over-fetching
- Prevent multiple API calls
- Lesser Communication
with API developers
- Self documenting

Requirement	REST	GraphQL
Fetching data objects	GET	query
Writing data	POST	mutation
Updating/deleting data	PUT/PATCH/DELETE	mutation
Watching/subscribing to data	-	subscription



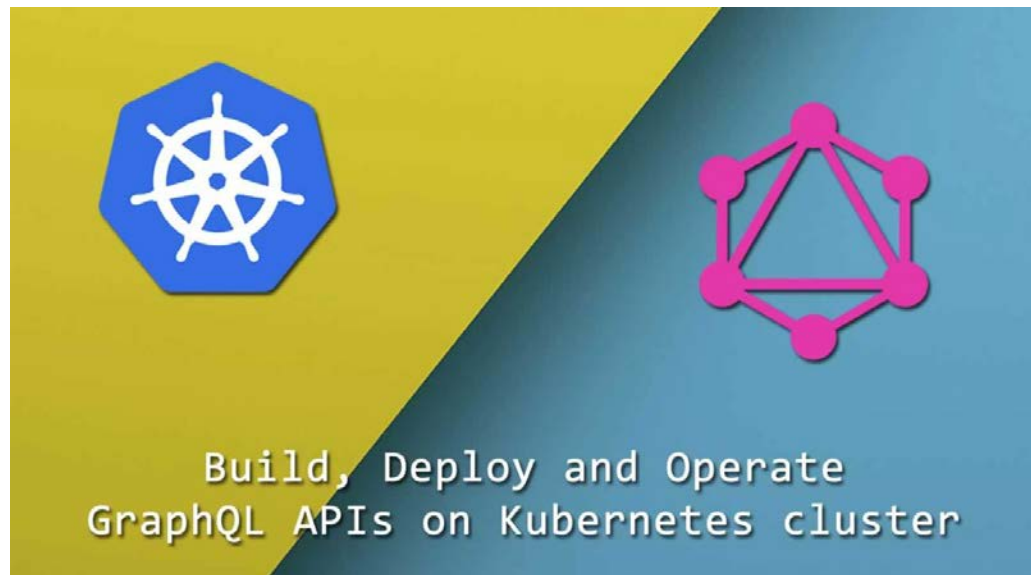
Unleashing Kubernetes Efficiency

- Container Management
- Scaling, deployment, load balancing etc.
- Challenges:
 - Data Retrieval
 - API Complexity



Solving challenges with Kubernetes using GraphQL

- Flexibility in Data Retrieval
- Efficient Resource Manipulation
- Real-Time Insights

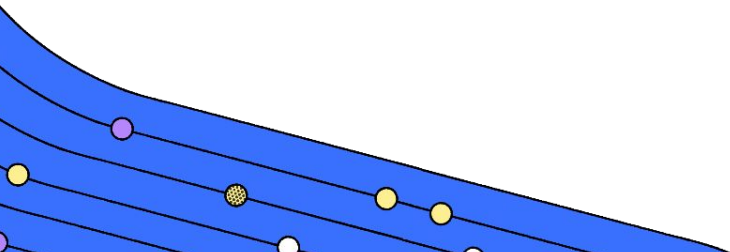


Hasura as a GraphQL Engine for Kubernetes

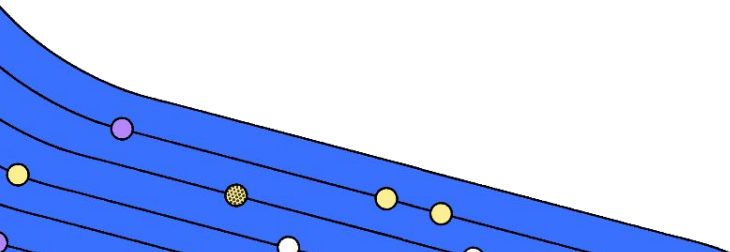
- GraphQL at its core
- Real-time Capabilities
- Simplified Data Access
- Authorization and Authentication
- Monitoring and observability
- Productivity



HASURA

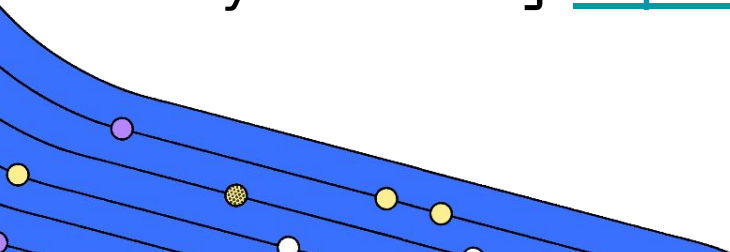


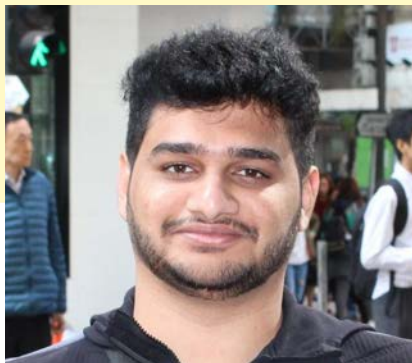
Demo



Documentation

- <https://hasura.io/learn/graphql/intro-graphql/introduction/>
- <https://hasura.io/docs/latest/deployment/deployment-guides/kubernetes/>
- <https://docs.google.com/presentation/d/11dDmxAGFNfmesnOHQRJOX4qski-sqI8osqRfWefiCLq/edit?usp=sharing>
- My medium blog: <https://medium.com/@akshubhat>
- My official blog: <https://hasura.io/blog/@akshay/>





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Thanks for joining!

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