



Monthly Community Call

September 14, 2022



Community Code of Conduct

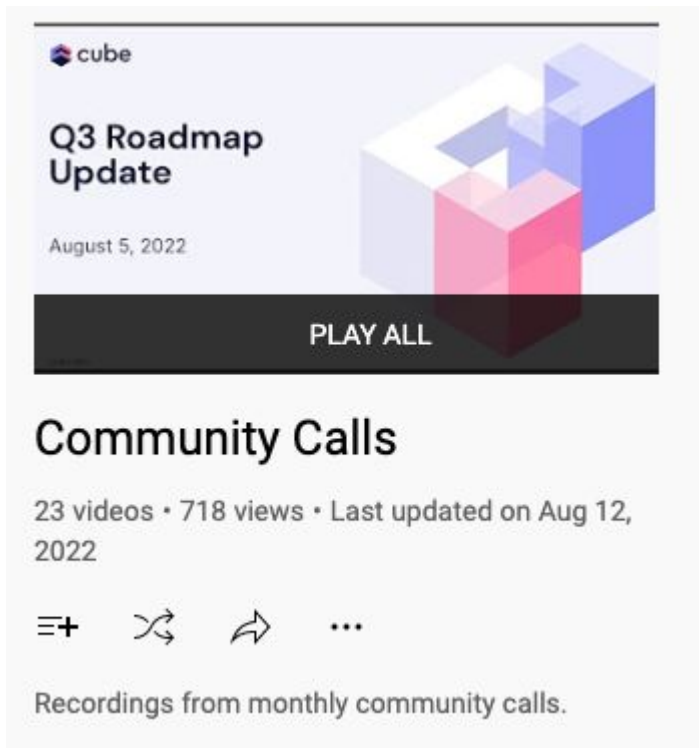
- We want to foster an open and welcoming environment where everyone feels they belong in the Cube community.
- The full text of our Code of Conduct is available at https://github.com/cube-js/cube.js/blob/master/CODE_OF_CONDUCT.md
- Any instances of inappropriate/unacceptable behavior can be reported to conduct@cube.dev.

What we will discuss today

- Community news
- Product news (sneak peek)
- Golang client for Cube (developed by Ternary team)
- Q&A

Community news

Q3 roadmap update



- Posted on our Community Call playlist
 - https://www.youtube.com/playlist?list=PLtdXI_QTQjpb1dHZCM09qKTsgvgqjSvc9
- Our Q3 Roadmap
 - <https://github.com/cube-js/cube.js/projects/13?query=is%3Aopen+sort%3Aupdated-desc>

We are now  **cube**.js

Check out the blog post at <https://cube.dev/blog/cube-js-is-now-cube>

Open source matters in data analytics: Here's why

Open source is critical in data analysis while providing long-term benefits for the users, community members, and business.

By [Ray Paik](#)

Feel free to leave comments at
<https://opensource.com/article/22/9/open-source-data-analytics>

Our events page (<https://cube.dev/events>) has a fresh, new look! 🎉

 Webinar: "Replace Looker Using Cube and Apache Superset"

 cube

Product Docs Resources ▾ Pricing Company ▾

Sign In [Book a Demo](#)

Meet Cube creators and community members

Learn more about our upcoming events below and check out our [events calendar](#). If you'd like to speak at an event, let us know. You can also check out the videos on our [YouTube channel](#).

community

Cube Community Call in September 2022

 RAY PAIK

Sep 14, 2022 @ 9:00 AM

webinar

Building lightning-fast data apps with Firebolt and Cube

 IGOR LUKANIN  LUKA LOVOSEVIC

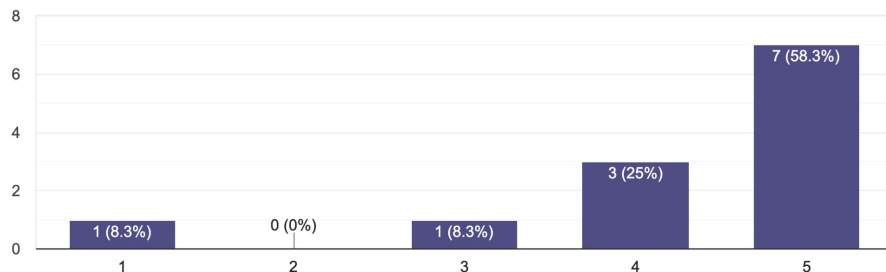
Sep 28, 2022 @ 9:00 AM

Recap: Introduction to Cube Cloud workshop

- Date: August 31, 2022
- Check out the event page for links to video & slides
 - <https://cube.dev/events/introduction-to-cube-cloud>
- Some quick stats:
 - 62 attendees (out of 198 registered),
 - 230+ views on YouTube

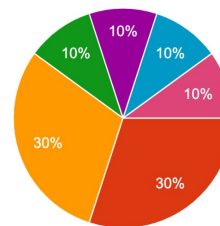
Overall, how satisfied were you with the workshop?

12 responses



What other topics would you like to see covered in future events/workshops?

10 responses



- Advanced Cube Cloud
- Building real-time data applications
- Data modeling
- Pre-aggregations and query performance
- MultiTenant queries & security. Distributed schema ownership
- SQL API - Benefits over direct connect to Snowflake
- On premise realise strategy for open s...

Product news (sneak peek)

Major focus of the Cube team lately

- Steaming pre-aggregations epic in the roadmap:
github.com/cube-js/cube.js/issues/5043
- Upcoming product updates:
 - “Union with source data”
 - “Streaming support”

Union with source data

- An implementation of lambda architecture in Cube
 - en.wikipedia.org/wiki/Lambda_architecture
- Near-zero data freshness + sub-second query latency

Streaming support

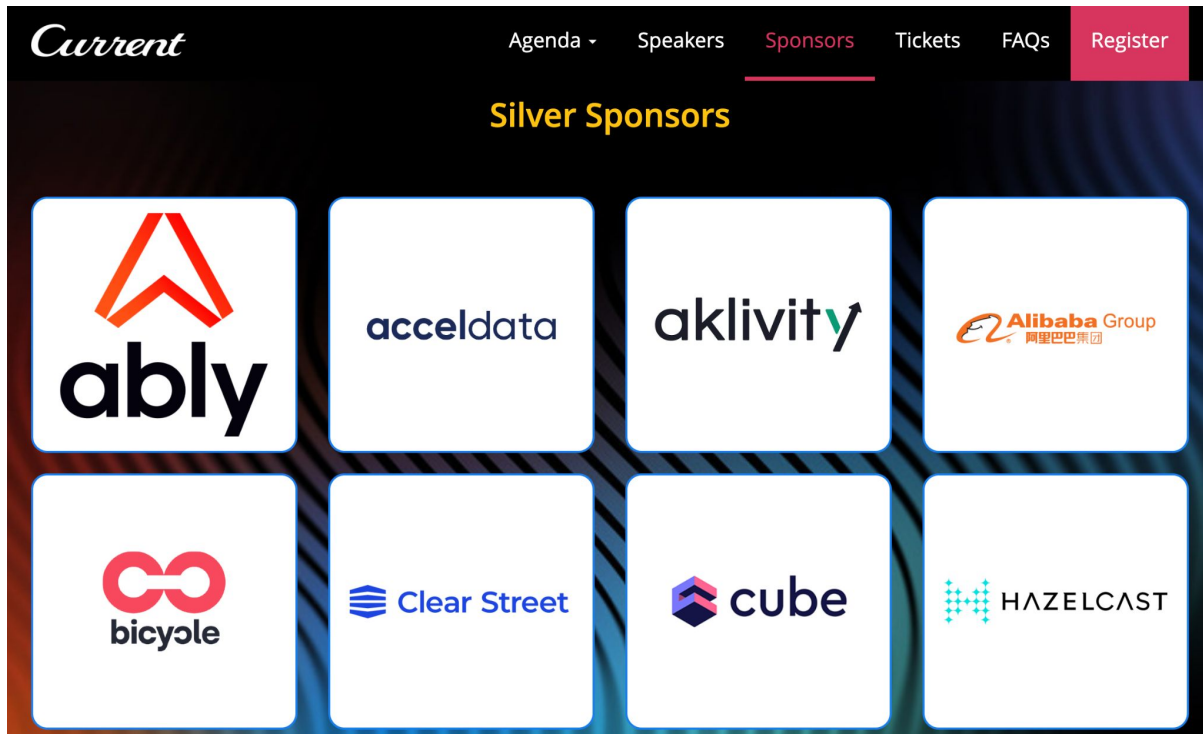
- Ingesting real-time data into Cube
- May 2022 — integration with Materialize:
cube.dev/blog/materialize-integration
- September 2022 — integration with ksqlDB and Kafka
 - Demo: cube-twitter-stream.netlify.app

Next workshop:

- Date: October 13, 2022 at 9am Pacific Time
- Topic: Building real-time/streaming data apps
- This will be a 60-minute workshop
- We will let you know when we have the event page ready 

We are Silver sponsors at Current 2022!

2022.currentevent.io



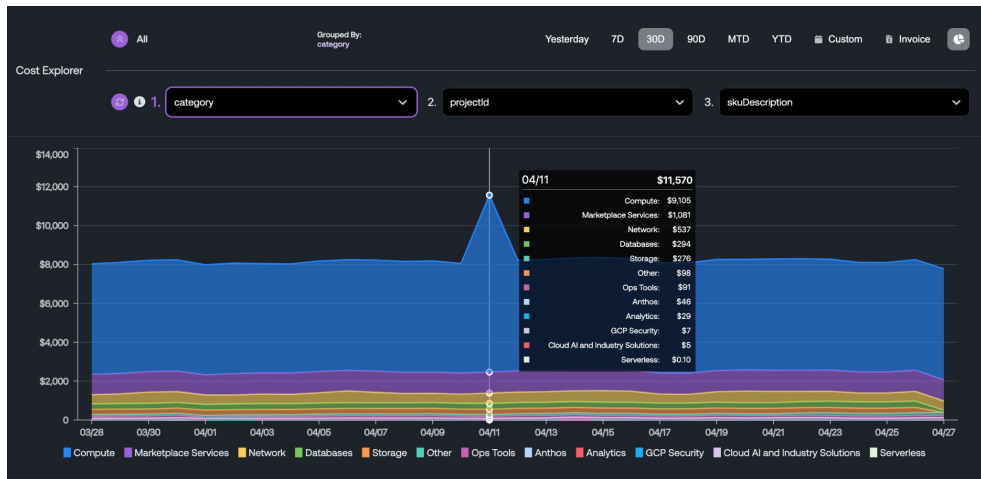
Come see us at Booth S16 on October 4-5

Very special guest —
Bruce Szudera Wienand

About Ternary

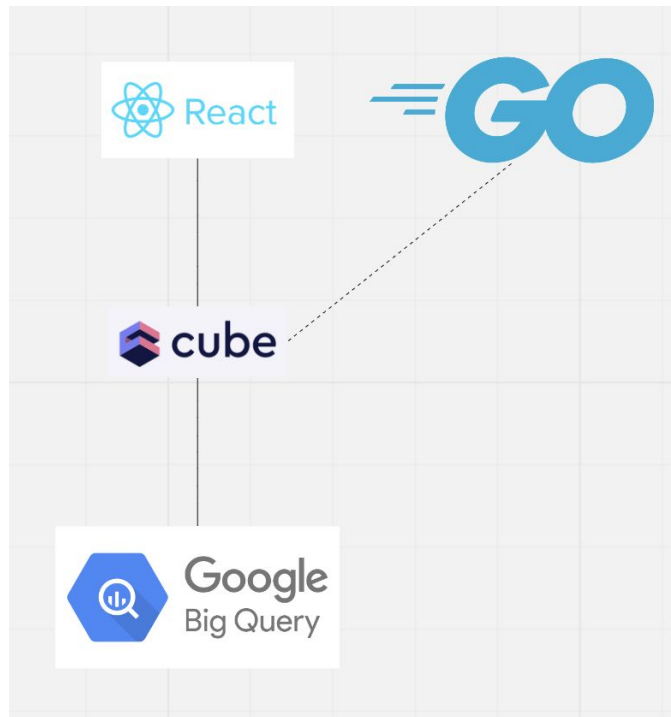


- FinOps-native cost management platform
- Built on GCP for GCP, with additional visibility into other cloud providers
- Leverage Cube heavily to serve both cost and usage data



Ternary x Cube

- Store data in BigQuery
- Data processing via BigQuery
- Query execution via BigQuery
- Queries issued via Cube (deployed to Cloud Run)
- Data requested from React app
 - Leverage existing client (JS)
- **Data requested from Go app**
 - **Leverage new client (Go)**



TernaryInc/cubejs-go

Repo: <https://github.com/TernaryInc/cubejs-go>

Godocs: <https://pkg.go.dev/github.com/TernaryInc/cubejs-go>

Instantiate a new client

```
var tokenGenerator = tokenGenerator{}  
  
var cubeClient = cube.NewClient(u, tokenGenerator)
```

TernaryInc/cubejs-go example

Formulate a query

```
var cubeQuery = cube.Query{
    Measures: []string{"MyCube.measure1"},
    Dimensions: []string{"MyCube.dimension1"},
    TimeDimensions: []cube.TimeDimension{
        {
            Dimension: "MyCube.timestamp",
            DateRange: cube.DateRange{
                AbsoluteRange: []string{
                    "2022-04-01",
                    "2022-04-20",
                },
            },
            Granularity: cube.Granularity_Day,
        },
    },
}
```

TernaryInc/cubejs-go example

Specify expected result type

```
type QueryResult struct {  
    Cost      float64    `json:"MyCube.measure1"`  
    ProjectID string     `json:"MyCube.dimension1"`  
    Timestamp time.Time  `json:"MyCube.timestamp"`  
}  
  
var results []QueryResult
```

TernaryInc/cubejs-go example

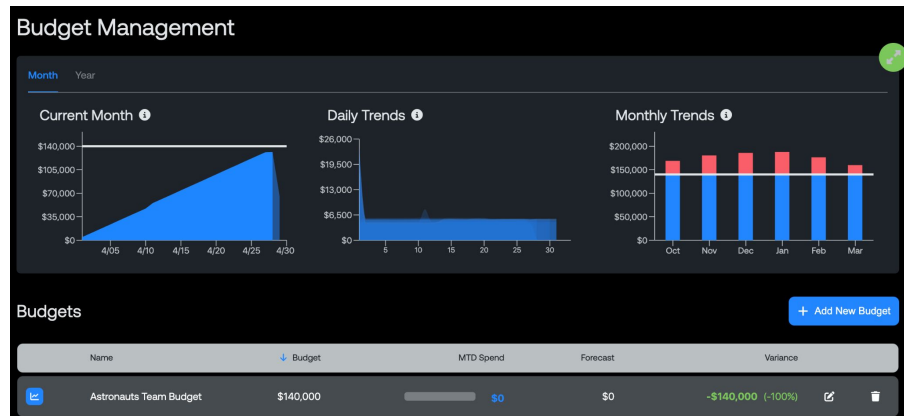
Issue the query and receive the ***typed*** results

```
var _, err = cubeClient.Load(context.Background(), cubeQuery, &results)
if err != nil {
    return fmt.Errorf("load query: %w", err)
}
```

Shouts out to Alan for coming up with this magic!

Usage in practice @ Ternary

- Store budget objects in database
- Leverage Cube server-side to issue queries to evaluate the status of budgets
 - Actual usage amount compared to budgeted amount, forecasting
- Leverage Cube client-side to plot month-over-month trends



Usage in practice @ Ternary

Leverage Cube from Go for various purposes:

- Daily/weekly/monthly reports
- Generate recommendations and anomalies
 - Nodepool utilization
 - Overprovisioned workloads
 - Committed usage utilization

customer-ternary - Feb 16th

 **My Ternary** APP 3:20 AM

[Ternary #107] New Recommendation: Overprovisioned Workload

A new cost savings recommendation has been detected in Ternary. Save up to \$13.48 monthly by implementing this Overprovisioned Workload cost saving recommendation.

[See more in My Ternary](#)

project_id	ternary-dev
cluster	revenge-of-instance-type-variety-pack
workload	gke-revenge-of-instan-pool-2022-02-02-a7745e35-5d6c (Node)

 **My Ternary** APP 2:13 AM

[Ternary #55] New Recommendation: Node Utilization

A new cost savings recommendation has been detected in Ternary. Save up to \$4.48 monthly by implementing this Node Utilization cost saving recommendation.

[See more in My Ternary](#)

project_id	nodepool	cluster
	my-first-cluster-1	ternary-dev
		pool-1

Questions or Comments?

@Bruce SW (Ternary) on Cube Slack

