CONDUIT

An OSS Firebase alternative

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I mostly break things

Along with Alex and Socrates,
I've been busy creating
software products, for the past
6+ years

Here's what we've gathered:

1. Most software requires the same things
2. Engineering talent is sparse
3. Time to market is difficult to achieve without huge budgets

How about a "less code" platform

- Build software faster
- Reduce your costs
- Scale your product easier

We've seen this before

They look good, but

We have something different in mind

- A platform built not only with front-end devs in mind
- No generic APIs, but code closer to custom backends.
- Makes you feel like you own it, and not like a third party

Our solution should

- Let front-end devs self-serve for all basic and common things ex. Authentication, cms etc
- It should be able to be extended easily
- It should be modular and not force you to run all features when you only need 2.

Hello ~~World~~

Conduit is built with magic

-Get your backend ready with 80% less devs
- Add additional features with 50% less work
- Keeps scaling with you
- No bottlenecks to hinder your progress or consider replacing it

- ✓ Open Source
- ✓ Built on NodeJS utilizing JS and TypeScript, the fastest growing ecosystem
- ✓ Comes with 10 pre-built modules to handle 70% of all your backend needs (with more on the way)
- ✓ Allows you to extend its functionality effortlessly through micro-services
- ✓ Lowers your backend development requirements by as much as 80%! (we even had a case where no backend developer was involved)

- ✓ Even when you DO extend it, you write ~30% less code due to its powerful SDK, built-in automations and smart APIs.
- ✓ Scales linearly to match your needs with built-in support for scaling-out its instances
- ✓ Get deployed natively in Kubernetes clusters or your classic VMs
- ✓ Provides both REST and GraphQL APIs as well as WebSockets
- ✓ Works with both MongoDB and SQL databases (MySQL, PostgreSQL, MSSQL)
- ✓ Already working in production in multiple LIVE applications

Available Modules (1/2)

Database – Manage your data, create new schemas AND create custom queries with 0 code (we promise). Automatically creates CRUD operations for all schemas. Supports MongoDB and SQL DBs

Authentication – Manage users and allow them to login/register with email, oAuth, MagicLinks and Passkeys (also supports 2FA)

Authorization – Create roles, policies, rules and enforce however you like (based on Google's zanzibar).

Email – Setup templates, connect to external Email providers, send emails

SMS – Send SMS messages, and authenticate users through 2FA

Available Modules (2/2)

Push Notifications – Send push notification to Android, iOS and the web

Storage – Store your files in Azure, Google or AWS

Chat – Build chat interfaces with the easiest integration around

Forms – Want to forward a form reply to an email? Got you covered on that

Router – Create fully documented REST & GraphQL APIs, use WebSockets for realtime updates or create Proxy configurations for your services
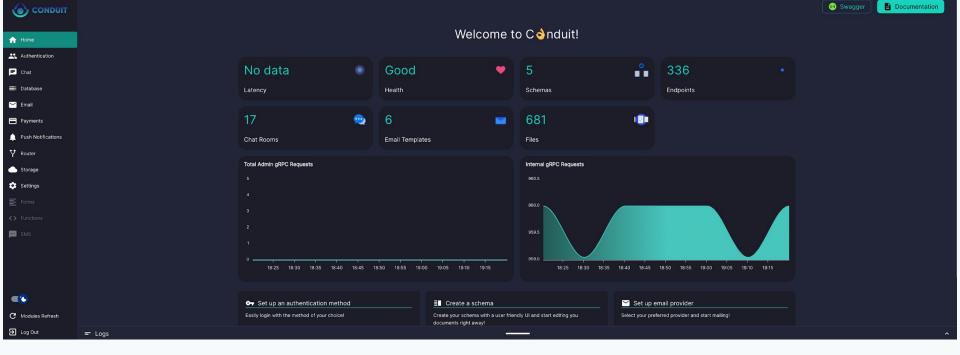
Payments (Closed Source) – Handles multiple payment providers, and provides payment and subscription management.

Some quick views

CONDUIT

Welcome to C👌nduit!

- Home
- Authentication
- Chat
- Database
- Email
- Payments
- Push Notifications
- Router
- Storage
- Settings
- Forms
- Functions
- SMS

Modules Refresh

Log Out

No data	Good	5	336
Latency	Health	Schemas	Endpoints

17	6	681
Chat Rooms	Email Templates	Files

Total Admin gRPC Requests

5
4
3
2
1
0

18:25 18:30 18:35 18:40 18:45 18:50 18:55 19:00 19:05 19:10 19:15

Internal gRPC Requests

960.5

960.0

959.5

959.0

18:25 18:30 18:35 18:40 18:45 18:50 18:55 19:00 19:05 19:10 19:15

🔑 **Set up an authentication method**

Easily login with the method of your choice!

📋 **Create a schema**

Create your schema with a user friendly UI and start editing you documents right away!

✉️ **Set up email provider**

Select your preferred provider and start mailing!

Logs

Authentication

Dashboard   Users   Teams   Sign-in Methods   Service Accounts   Config

12.9ms
Latency

Good
Health

11
Logged-in Users

Module Requests
Duration
Last hour

2.0

1.3

0.7

0.0

18:25 18:30 18:35 18:40 18:45 18:50 18:55 19:00 19:05 19:10 19:15 19:20

Login Requests
Duration
Last hour

5

4

3

2

1

0

18:25 18:30 18:35 18:40 18:45 18:50 18:55 19:00 19:05 19:10 19:15 19:20

Logs

LIVE   REFRESH ⟳

Start Date
one hour ago

End Date
now

Limit
100

Level

● Mar 03 2024, 07:22:05 pm | (admin) Request: /authentication/users 200 196
● Mar 03 2024, 07:22:06 pm | (admin) Request: /authentication/teams 200 11
● Mar 03 2024, 07:22:08 pm | (admin) Request: /authentication/services 200 11

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Modules Refresh

Log Out

Database

Dashboard   Models   Introspection   Custom Endpoints

Swagger   Documentation

12.0ms	Good	5	No data
Latency	Health	Conduit Models	Imported Models

Module Requests
Duration
Last hour

5
4
3
2
1
0
18:25 18:30 18:35 18:40 18:45 18:50 18:55 19:00 19:05 19:10 19:15 19:20

Database Queries
Duration
Last hour

20
15
10
5
0
18:25 18:30 18:35 18:40 18:45 18:50 18:55 19:00 19:05 19:10 19:15 19:20

Sidebar
- CONDUIT
- Home
- Authentication
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Modules Refresh

Log Out

Logs

Storage

Swagger | Documentation

8.0ms	Good	1	24	681	39411493589
Latency	Health	Containers	Folders	Files	Size (bytes)

Module Requests

Duration: Last hour

```
5
4
3
2
1
0
   18:25  18:30  18:35  18:40  18:45  18:50  18:55  19:00  19:05  19:10  19:15  19:20
```

Conduit

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Modules Refresh

Log Out

Logs

What have we done with it so far

What we've done with it so far

- Shipped 10+ platforms since v0.4 (now on 0.16) and counting.
- We're dogfooding every Conduit build before releasing.
- Released 11 modules, with 2 more under development.
- Created a CLI to manage local deployments.
- Made a HELM chart for easy Kubernetes setup and management.
- Integrated with Prometheus and Loki for metrics and logs.

We've been busy

Stars: 390
Commits: 4.735
Commits/month: ~30
Release schedule: At least once per month
Contributors: 24 (+ you?)

The future

The future

- Finish development of Actor (workflow engine) and Functions modules.
- Finish the (much needed) rewrite of our Admin UI.
- Stabilize the gRPC API.
- Create a generator to ship our grpc SDK, in multiple languages/runtimes.
- Improve performance and reduce resource consumption.

Questions?

Star: github.com/ConduitPlatform/Conduit

CONDUIT

Thank You