

Streamdata and API Manager

Uli Hitzel | Developer Advocate | June 2019

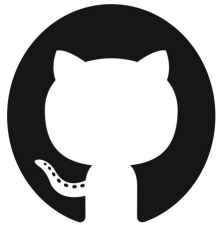




Developer Advocate



/in/uhitzel



/u1i/slides



15 min Agenda

1 – Concept

2 – Setup & Building Blocks

3 – Live Demo



Event-Driven User Interfaces

1 EUR = 1.091245 USD

1 EUR = 1.091315 USD

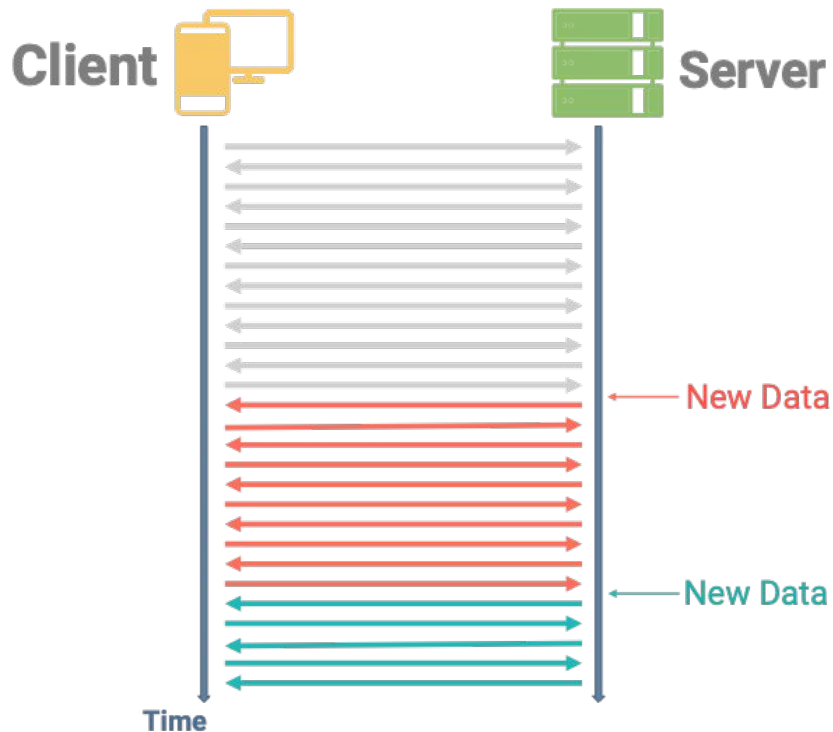
1 USD = 0.65501 GBP

1 USD = 0.655055 GBP

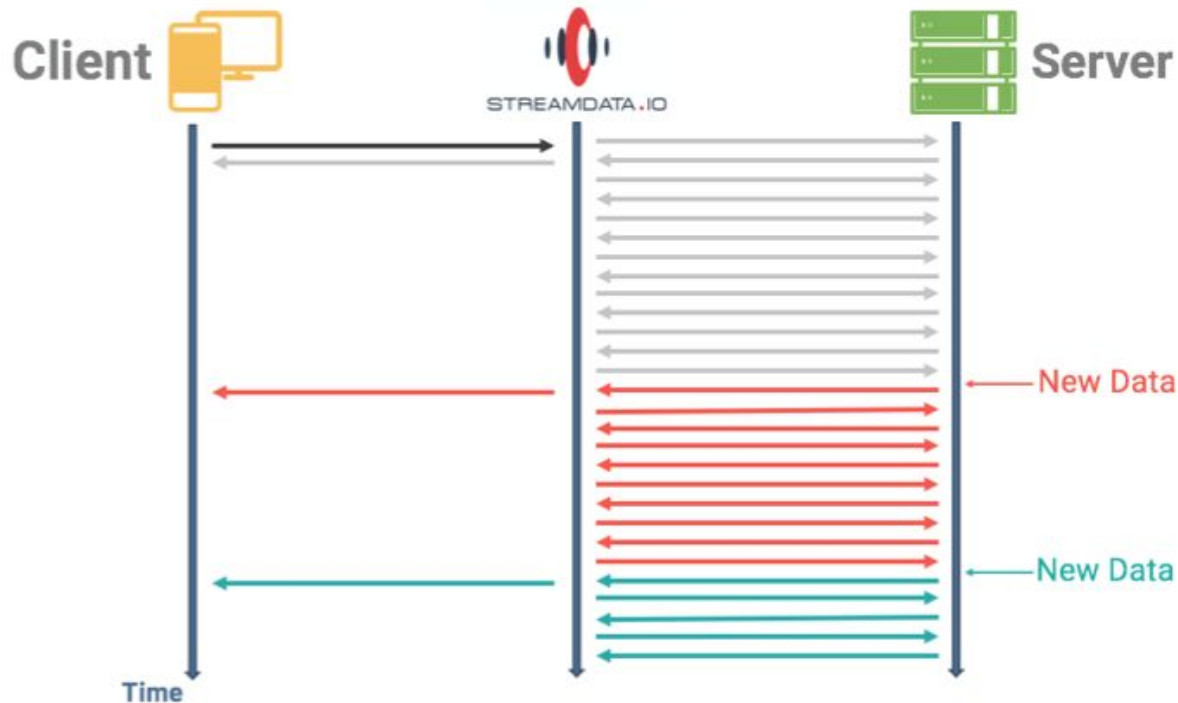
1 EUR = 135.522 JPY

1 EUR = 135.509 JPY

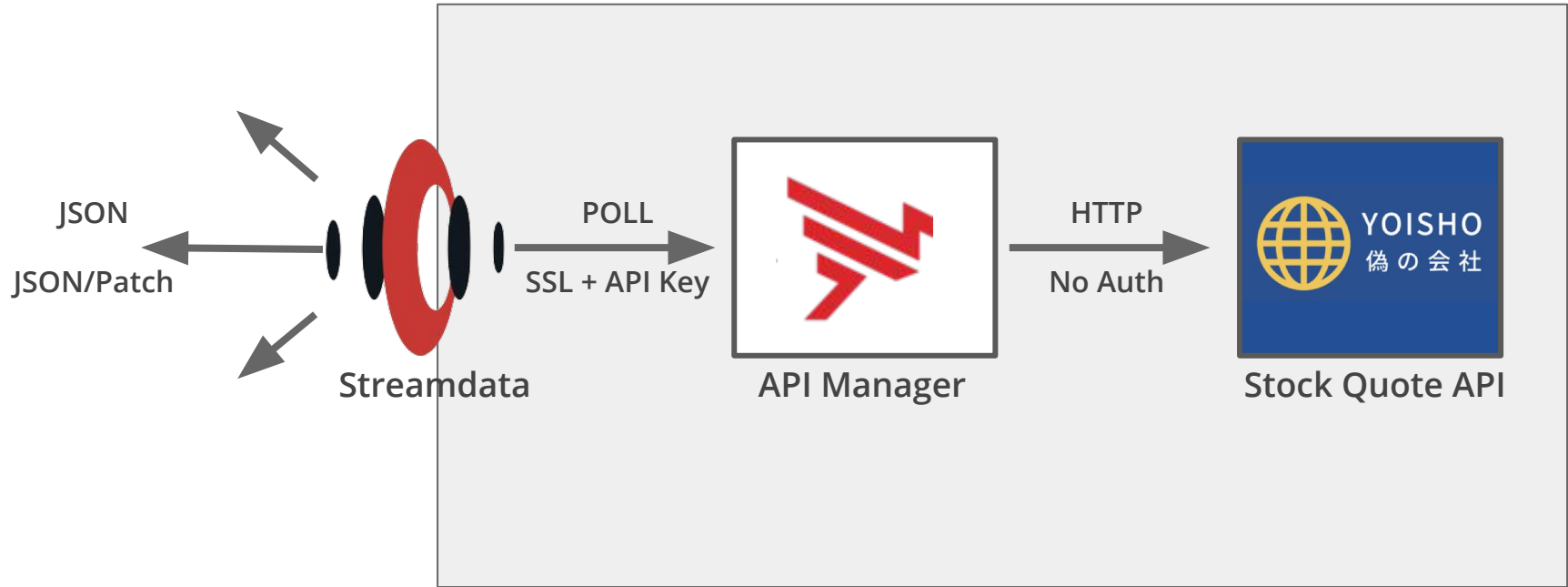
Approach: Continuous Polling



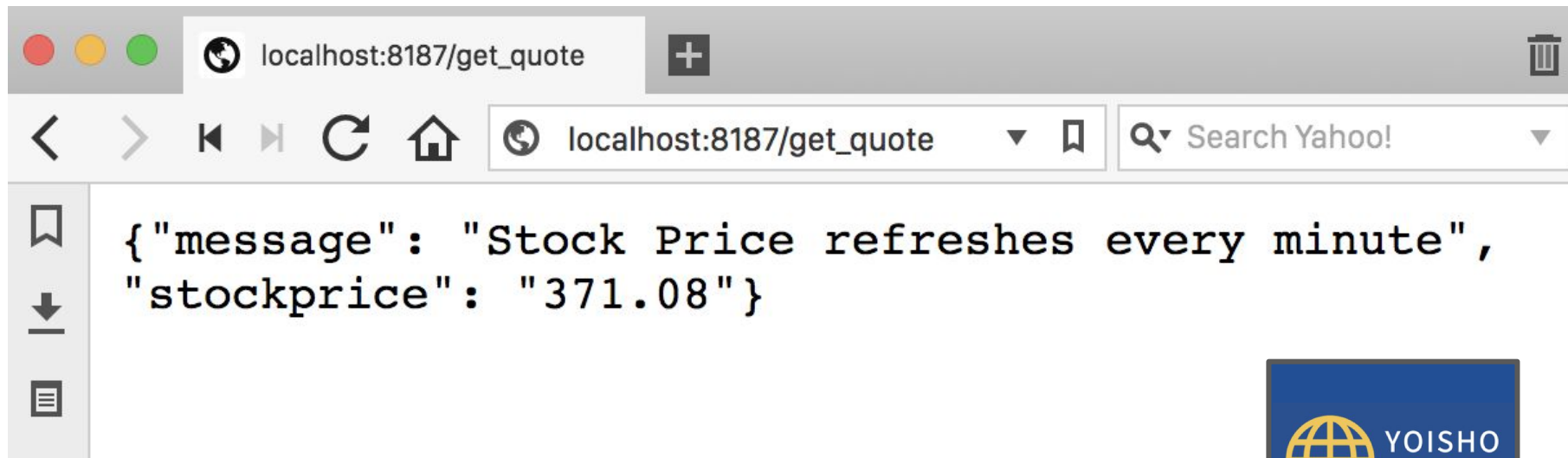
Better: Event-Driven



Use Case – Setup





API Backend: Stock Quote





Import in API Manager


 Axway API Manager

 API

 Frontend API

 Backend API

 API Catalog



Manage backend API

Maintain a library of backend API. You may import Swagger, WADL, or create your own to define your services.

New API

Filter: API

Manage selected

Refresh

<input type="checkbox"/>	Name	Version	Service Type	Organization	Backend URL
No APIs					

Import from

*Source: Swagger definition URL

*URL: http://172.17.0.1:8187/swagger

*API name: yoisho-quote

*Organization: API Development

Authentication

User name:

Password:

Import

Cancel



API
Manager

Adding Auth: API Keys

API Key Device

***API key field name:**

***API key location:**



Remove credentials on success:

Request headers

Query string/form body

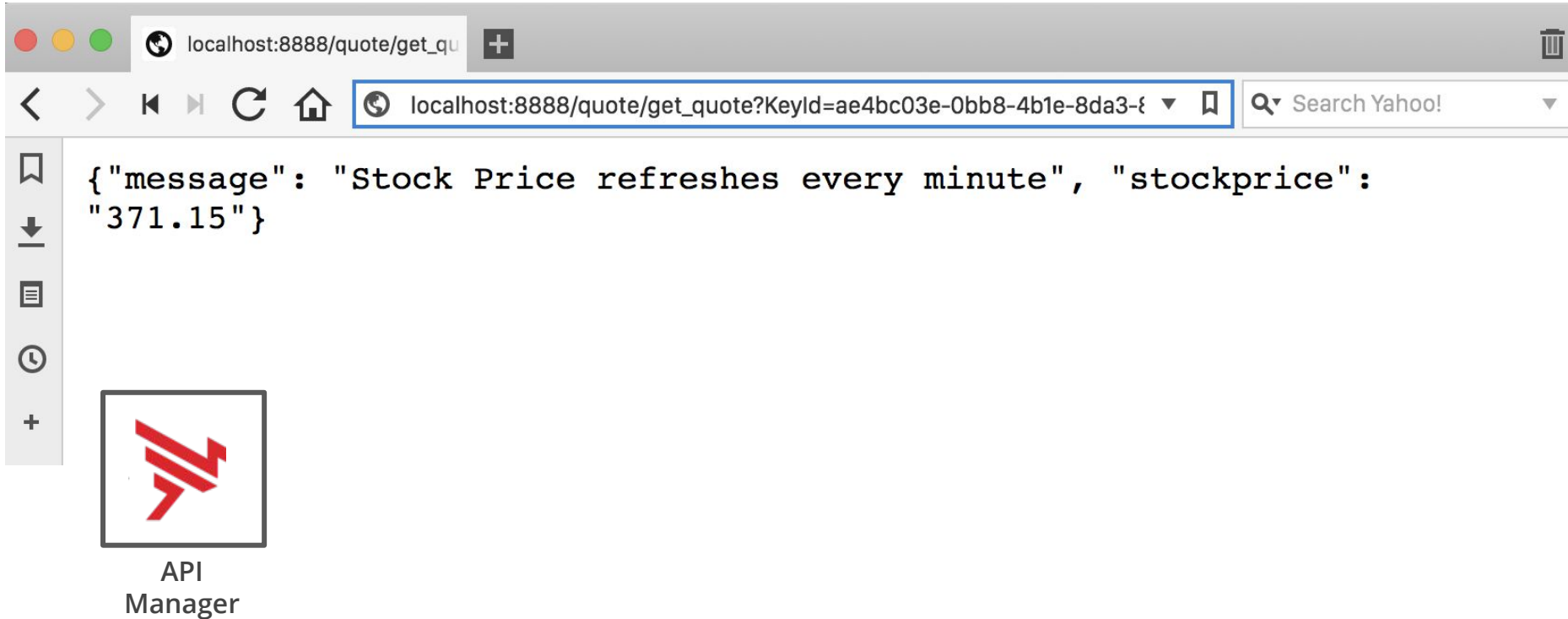


API
Manager

OK

Cancel

Now we have a protected API



A screenshot of a web browser window. The address bar shows the URL `localhost:8888/quote/get_quote?KeyId=ae4bc03e-0bb8-4b1e-8da3-ξ`. The page content displays a JSON response: `{"message": "Stock Price refreshes every minute", "stockprice": "371.15"}`. On the left side of the browser window, there is a sidebar with various icons, including a red logo for API Manager. Below the logo, the text "API Manager" is visible.

localhost:8888/quote/get_qu

localhost:8888/quote/get_quote?KeyId=ae4bc03e-0bb8-4b1e-8da3-ξ

Search Yahoo!

`{"message": "Stock Price refreshes every minute", "stockprice": "371.15"}`

API Manager

Creating a Streaming API

Add New API ×

URL

GET

https://16b5b64d.ngrok.io/quote/get_quote

Polling Frequency ?

seconds ▾

5

HTTP Headers ?

+ Add Http Header

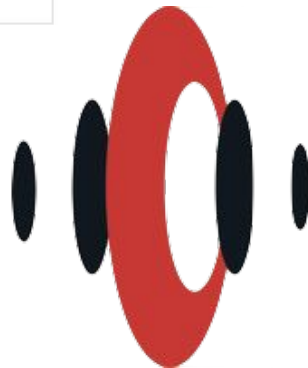
Query Params ?

KeyId

ae4bc03e-0bl



+ Add Query Param




Consuming the new API

```
curl -v
```

```
"https://streamdata.motwin.net/https://16b5b64d.ngrok.io/quote/get_quote?X-Sd-Token=ZTI3NGJjYjctMTJjNy00ZThjLT1hYjgtZDViM2YwMTg2Mjdj"
```

Consuming the new API

```
uli — curl -v https://streamdata.motwin.net/https://16b5b64d.ngrok.io/quote/get_quote?X-Sd-Token=ZTI3NGJjYjctMTJjNy00ZThjLTlhYjgtZDViM2YwMTg2Mjdj — 80x24
< HTTP/2 200
< access-control-allow-origin: *
< access-control-allow-headers: Accept, X-Forwarded-Port, X-Forwarded-Proto, Last-Event-ID, X-Sd-Token, X-Sd-Version, X-Auth-Sd-S, X-Auth-Sd-Ts, X-Sd-Compress
< content-type: text/event-stream; charset=UTF-8
< access-control-allow-methods: GET, POST, OPTIONS
< date: Thu, 14 Jun 2018 09:21:36 GMT
< via: 1.1 google
< alt-svc: clear
<
id:66b67752-bb3e-4fa4-af69-8880b187ab63
event:data
data:{"message":"Stock Price refreshes every minute","stockprice":"371.65"}
:
:
id:7c6b6d42-a4c3-42c3-b7fd-ef5196d44c96
event:patch
data:[{"op":"replace","path":"/stockprice","value":"371.66"}]
:
:
```



API Management
Intro 2018.pdf

What's Next

- **Demo:** Streamdata + API Manager
- **Experiment:** Look at my blog post & try this yourself!



/u1i

