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Open Cloud Connectivity

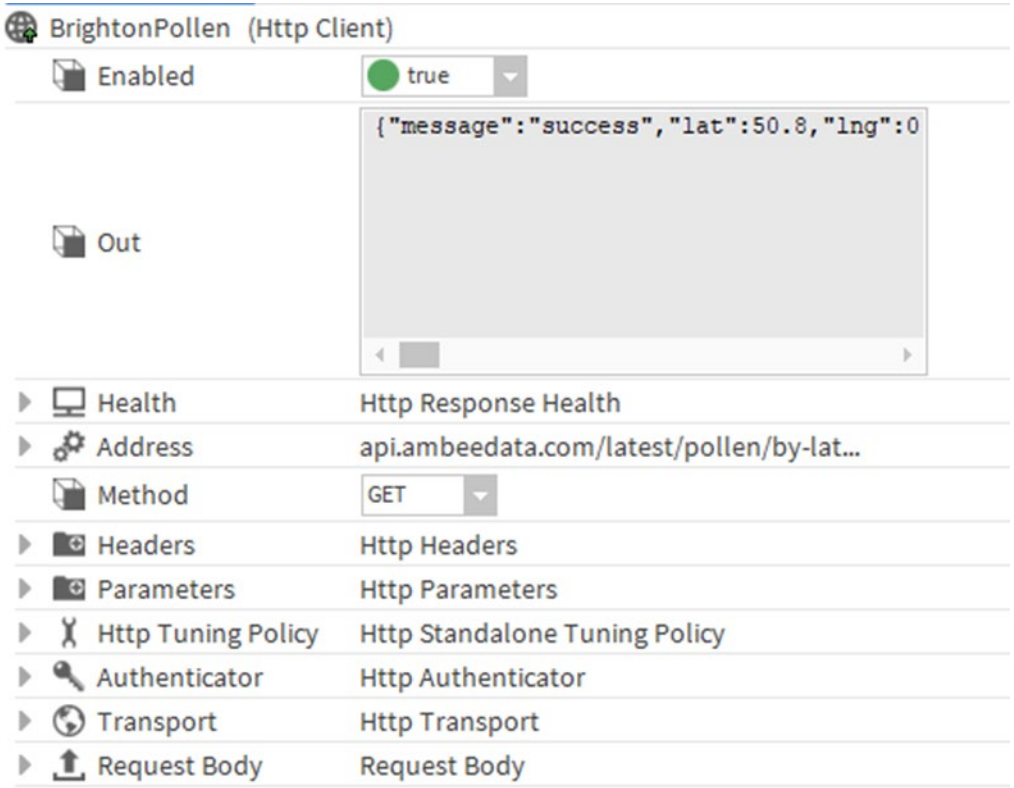
The HTTP Client Driver

Curtis McKerlie – Application Engineer

The HTTP Client

- The Niagara HTTP Client module allows Niagara Stations to interact with HTTP web services and APIs

- This allows data to be exchanged both in and out of a Niagara station



What do we mean by HTTP?

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Terminology

- Web Services are online services which allow systems to exchange data, often in JSON or XML format, using HTTP as the protocol

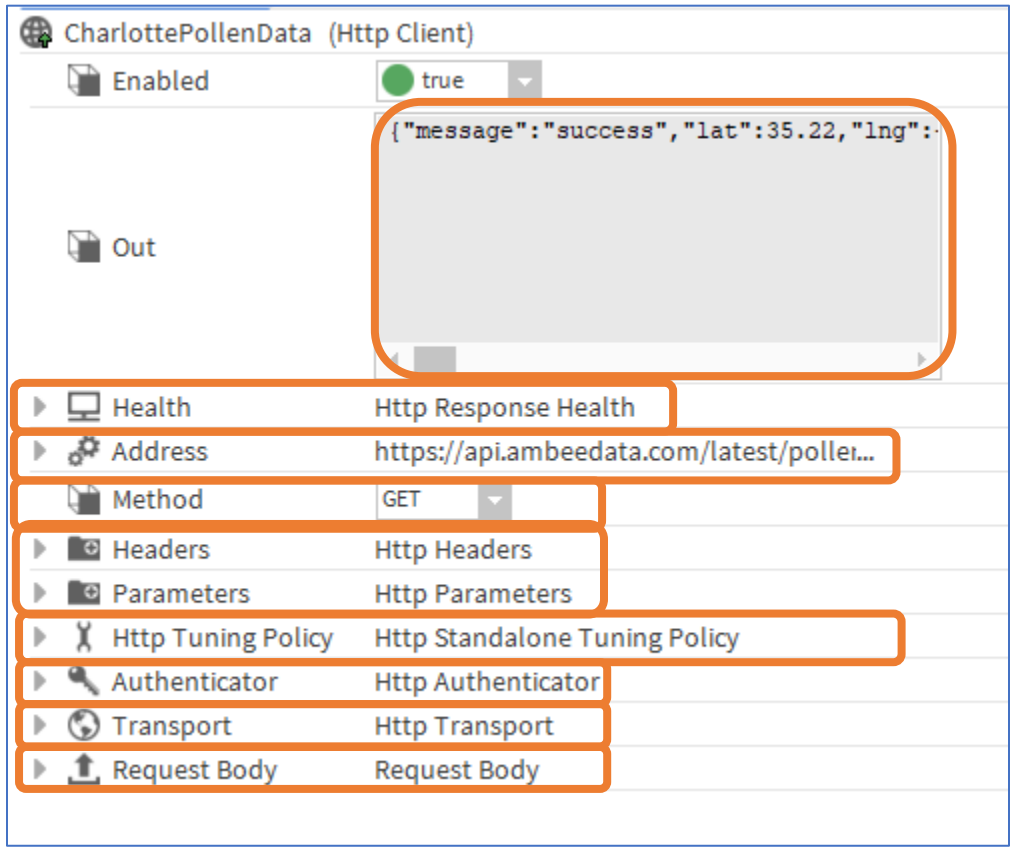
- HTTP is also the protocol by which web pages are retrieved in web browsers. This allows data to be exchanged both in and out of a Niagara station

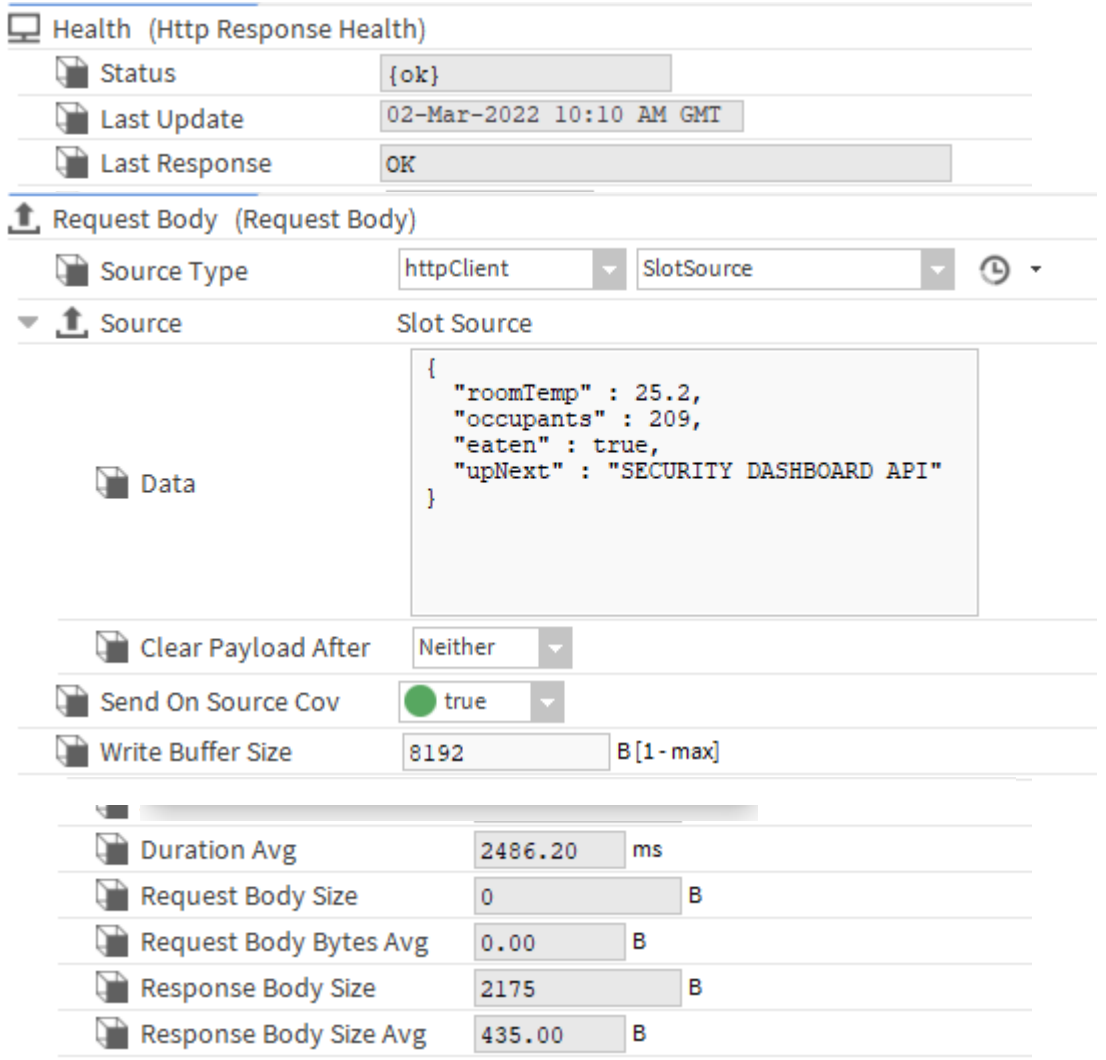
Terminology

- APIs are the interface contract between the client and server of the web service, defining;
  - which operations are available
  - the data format for exchange
  - the parameters which can be used

- RESTful web services/APIs obey a common set of rules and constraints to conform with modern architecture of scalability

Standalone Client





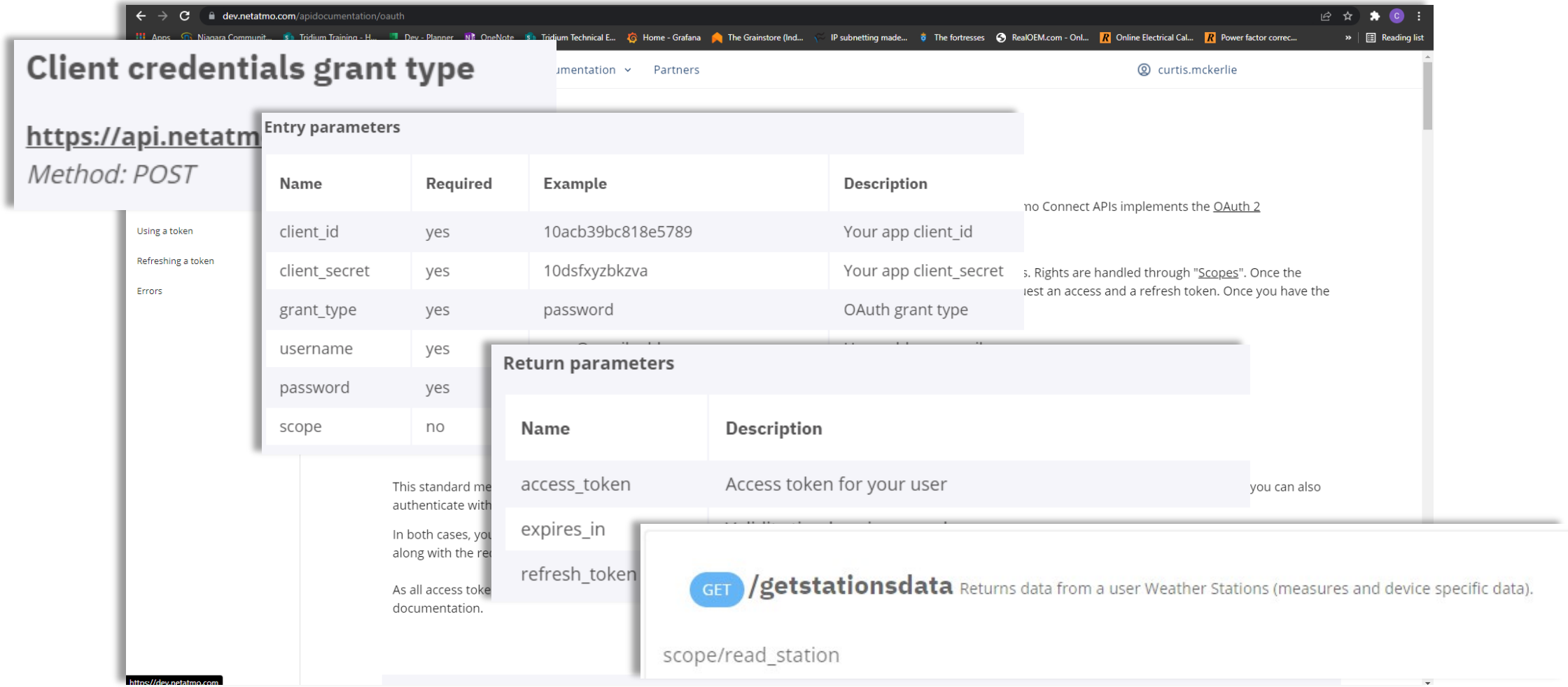
Use Cases – today's demonstration

- Local/Remote device control
  - Integrate with APIs on IoT Devices / Gateways

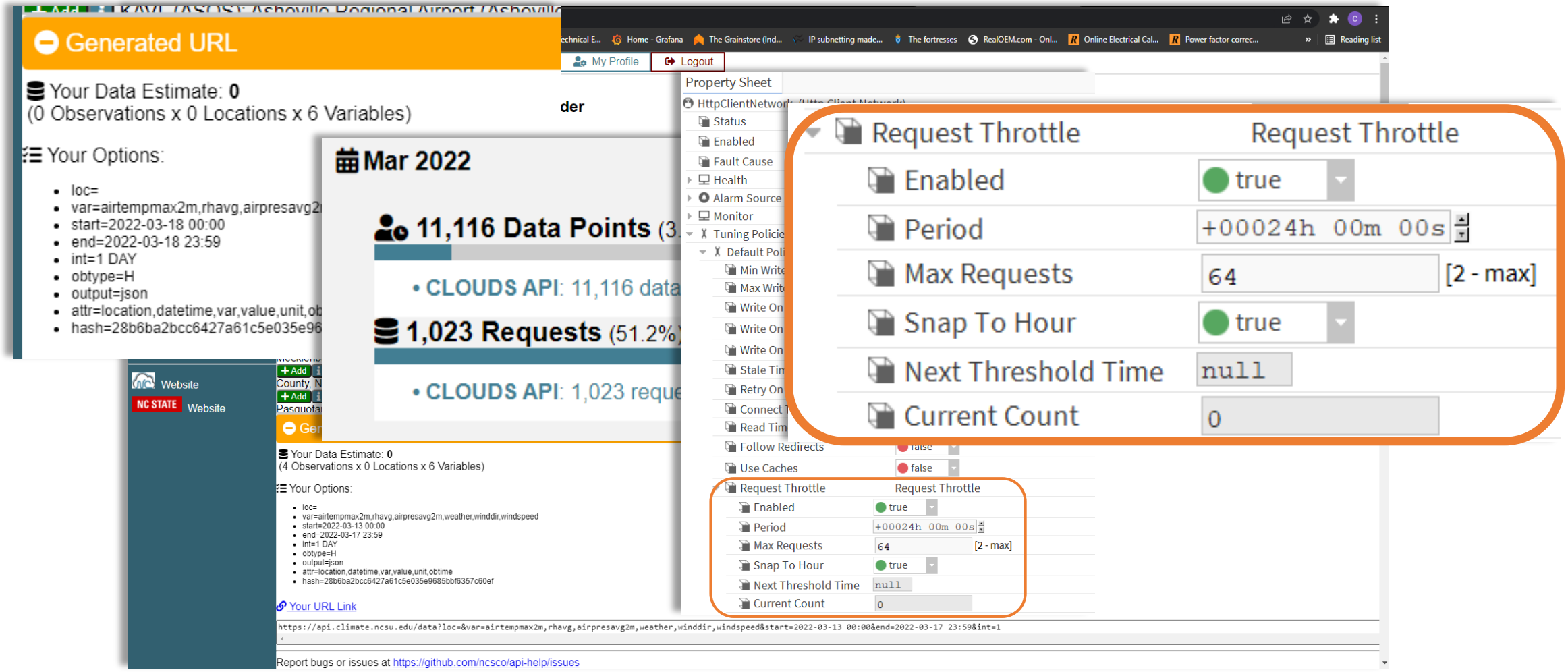
- Bringing useful data into a building, from an API
  - Occupancy, Weather forecasts, Travel updates, Air quality data, parking…

- Exporting station data to an external services / cloud
  - REST APIs available for AWS IoT, Azure IoT, Google Cloud…

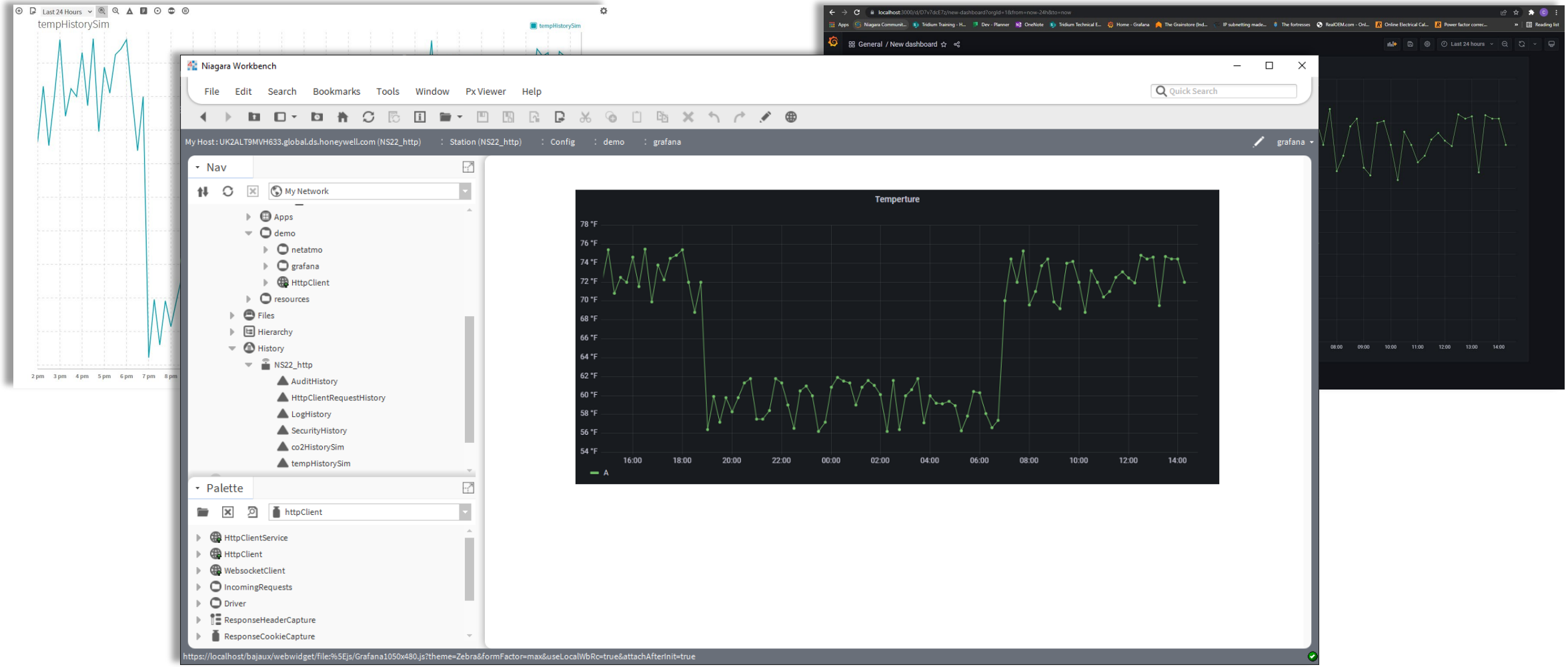
Documentation is Key – Weather Station



Documentation is Key – CLOUDS



Webhooks


Last 24 Hours
tempHistorySim
2 pm
3 pm
4 pm
5 pm
6 pm
7 pm
8 pm
Niagara Workbench
File
Edit
Search
Bookmarks
Tools
Window
Px Viewer
Help
Quick Search
My Host : UK2ALT9MVH633.global.ds.honeywell.com (NS22_http)
Station (NS22_http)
Config
demo
grafana
Nav
My Network
Apps
demo
netatmo
grafana
HttpClient
resources
Files
Hierarchy
History
NS22_http
AuditHistory
HttpClientRequestHistory
LogHistory
SecurityHistory
co2HistorySim
tempHistorySim
Palette
httpClient
HttpClientService
HttpClient
WebsocketClient
IncomingRequests
Driver
ResponseHeaderCapture
ResponseCookieCapture
Temperture
78 °F
76 °F
74 °F
72 °F
70 °F
68 °F
66 °F
64 °F
62 °F
60 °F
58 °F
56 °F
54 °F
16:00
18:00
20:00
22:00
00:00
02:00
04:00
06:00
08:00
10:00
12:00
14:00
A
General / New dashboard
Last 24 hours
https://localhost/bajaux/webwidget/file:%5Ejs/Grafana1050x480.js?theme=Zebra&formFactor=max&useLocalWbRc=true&attachAfterInit=true

When can I start using this?

- Already released in the EMEA region
- Is included in the 4.12 image for all regions

Licensing

- Free to evaluate with demo license
- Production use requires additional license and active SMA
- Each HTTP Client component counts as one global point
- Each HTTP Driver point counts as one global point

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CHARLOTTE, NC | APRIL 4-6

Thank you for your attention

Any Questions?

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