

2nd PHYSICS Hackathon 2023

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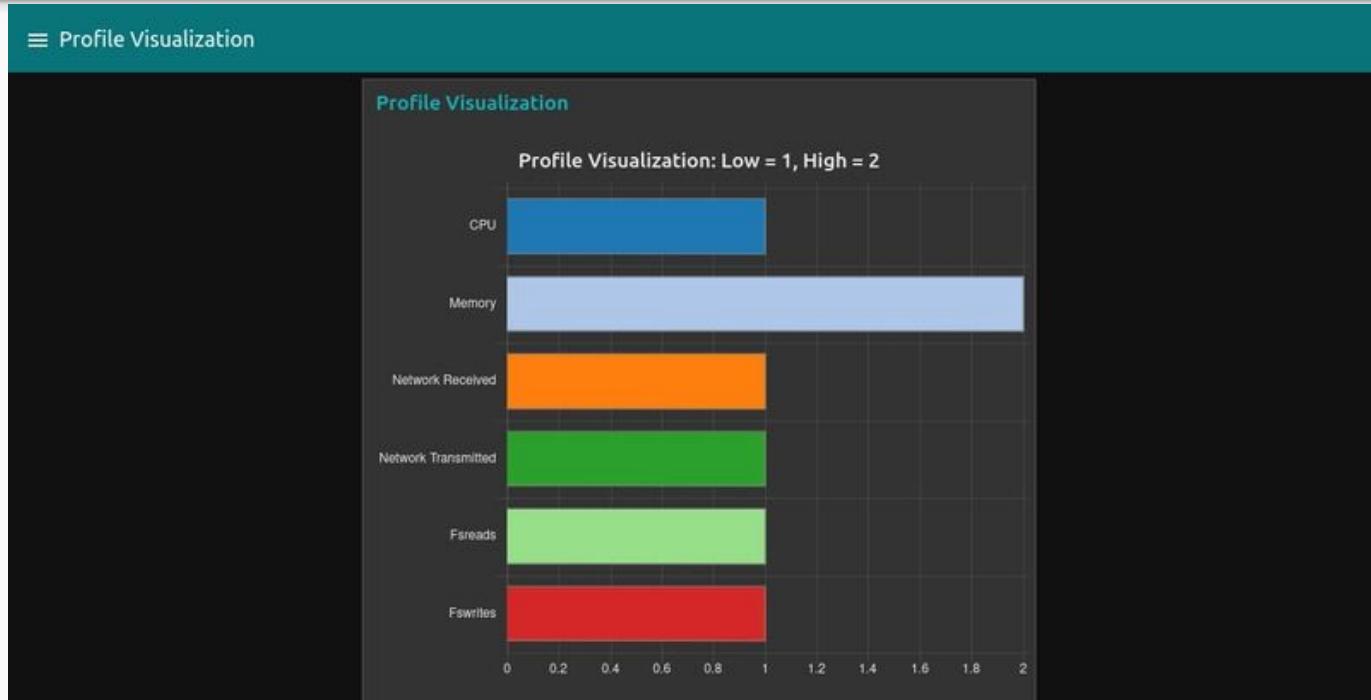
Game Challenge

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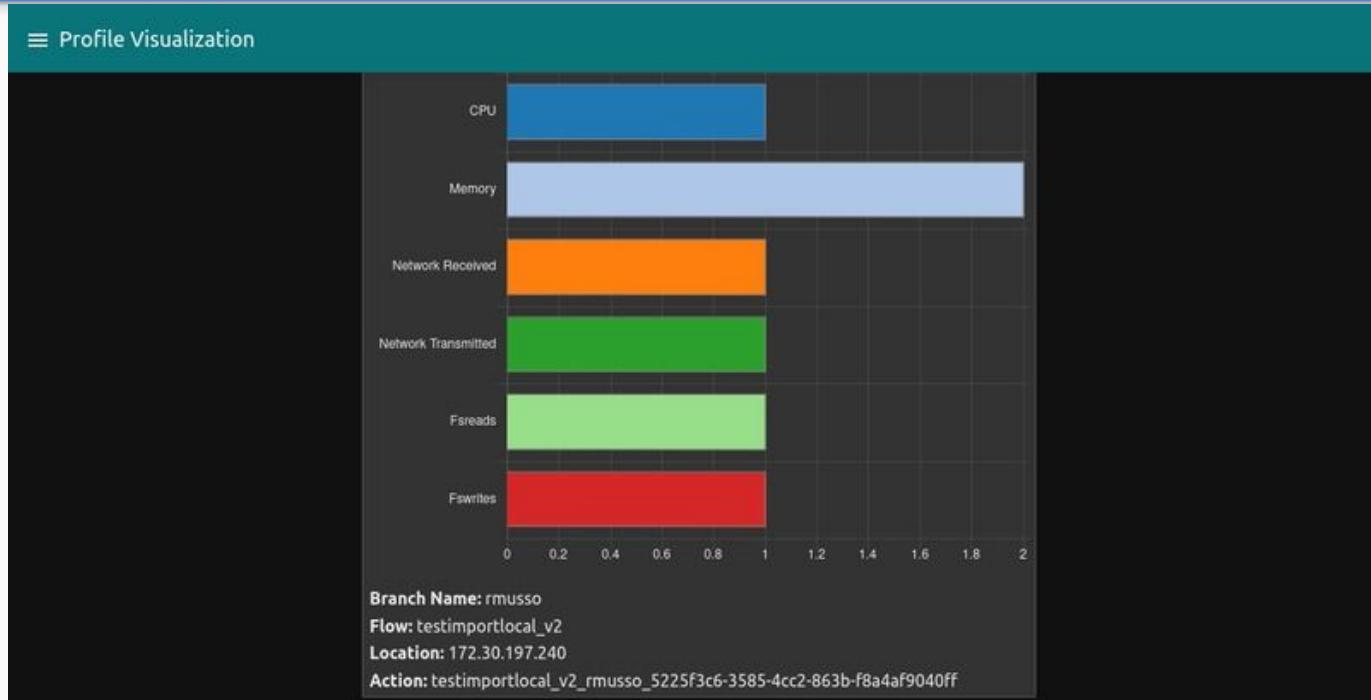


Data Visualization Challenge

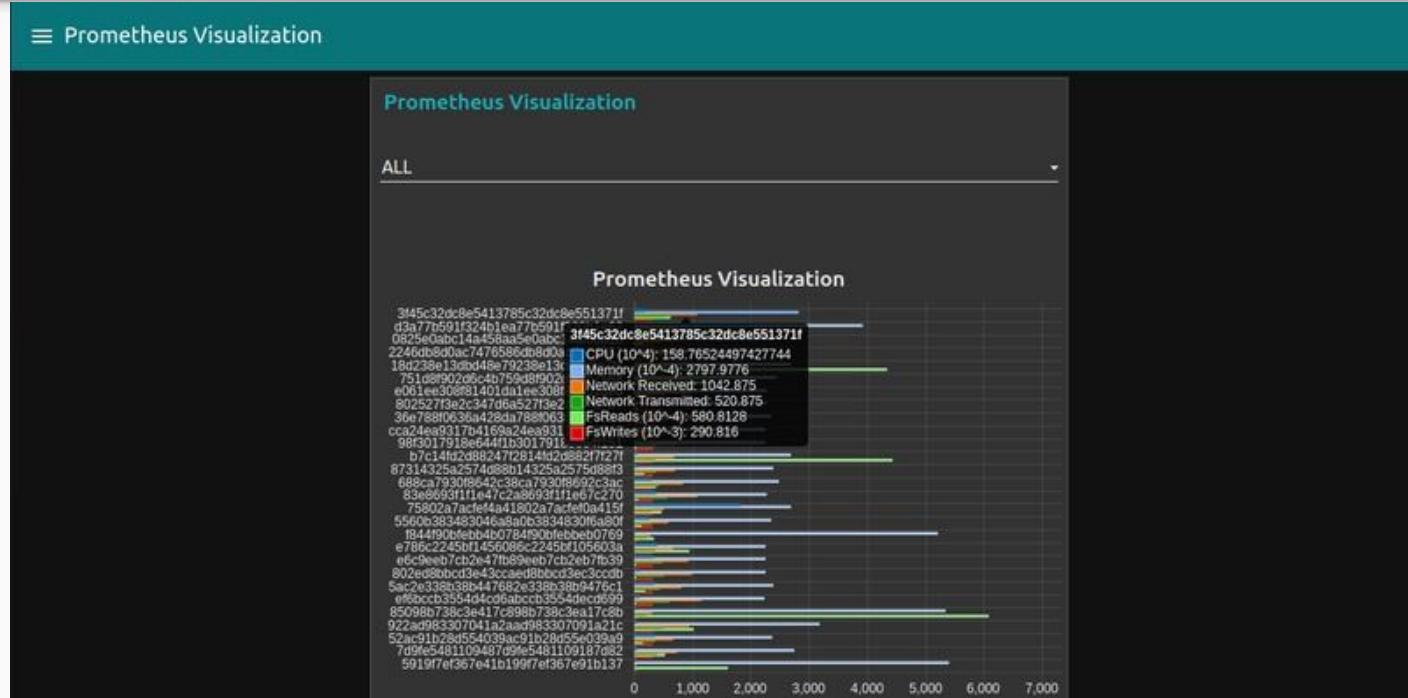
Profile Data Visualization



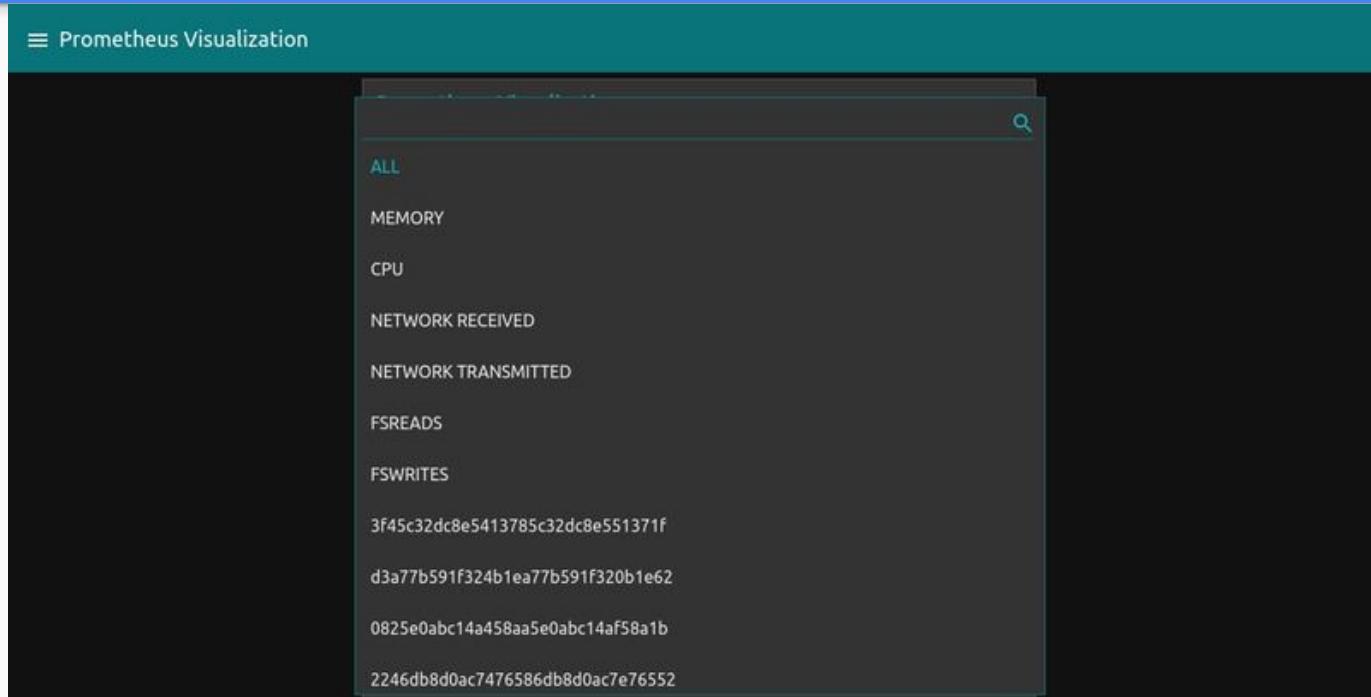
Profile Data Visualization



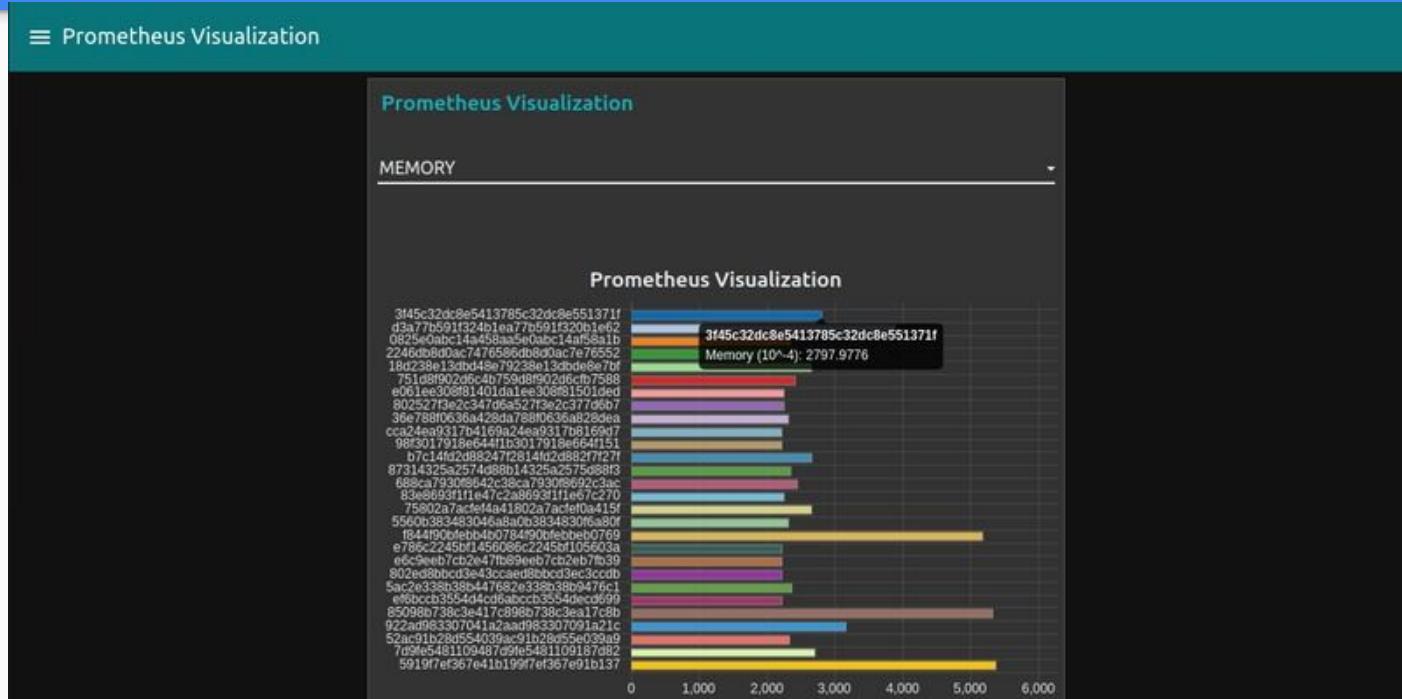
Prometheus Data Visualization



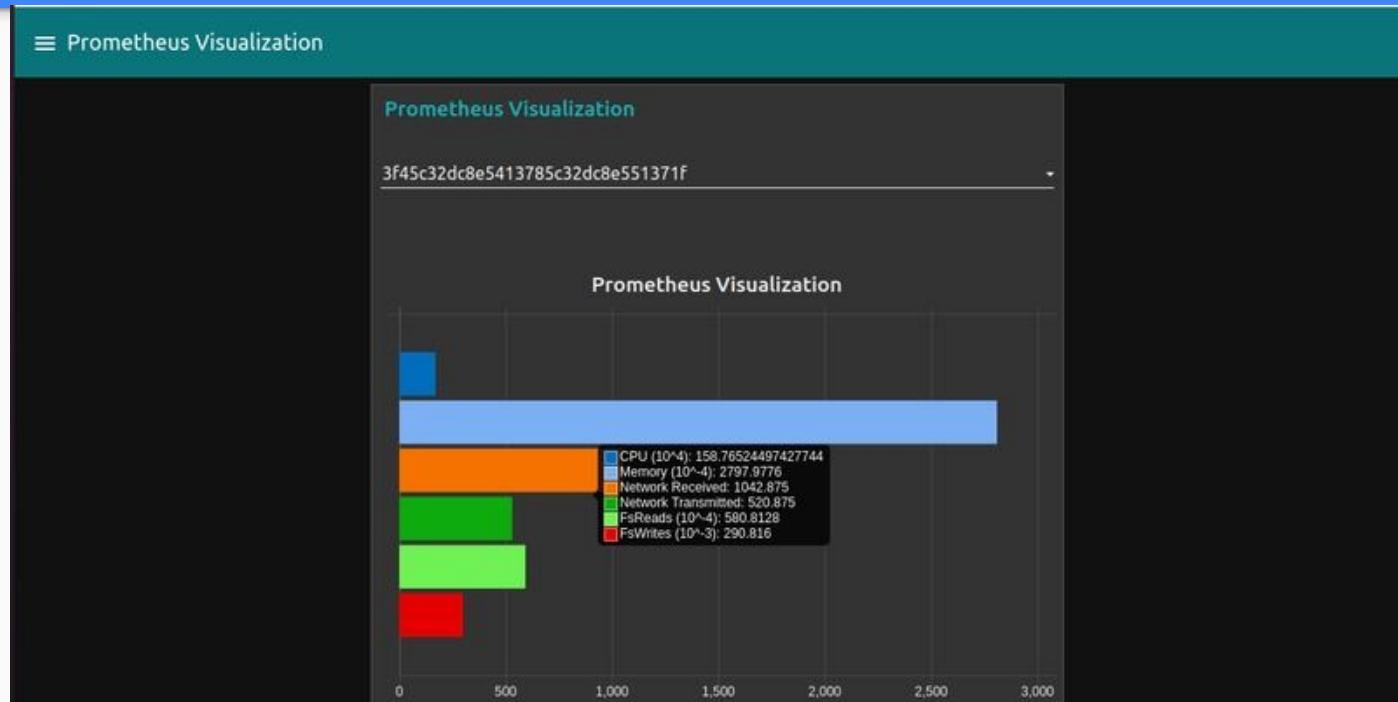
Prometheus Data Visualization



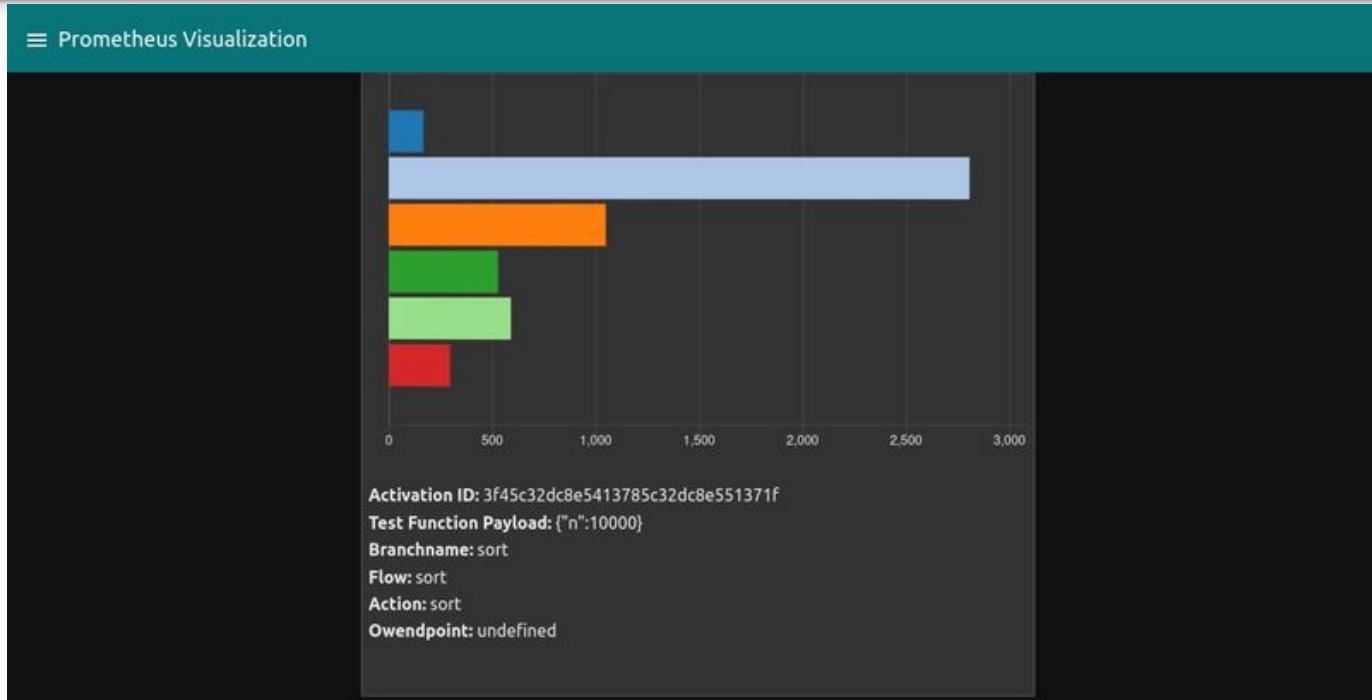
Prometheus Data Visualization



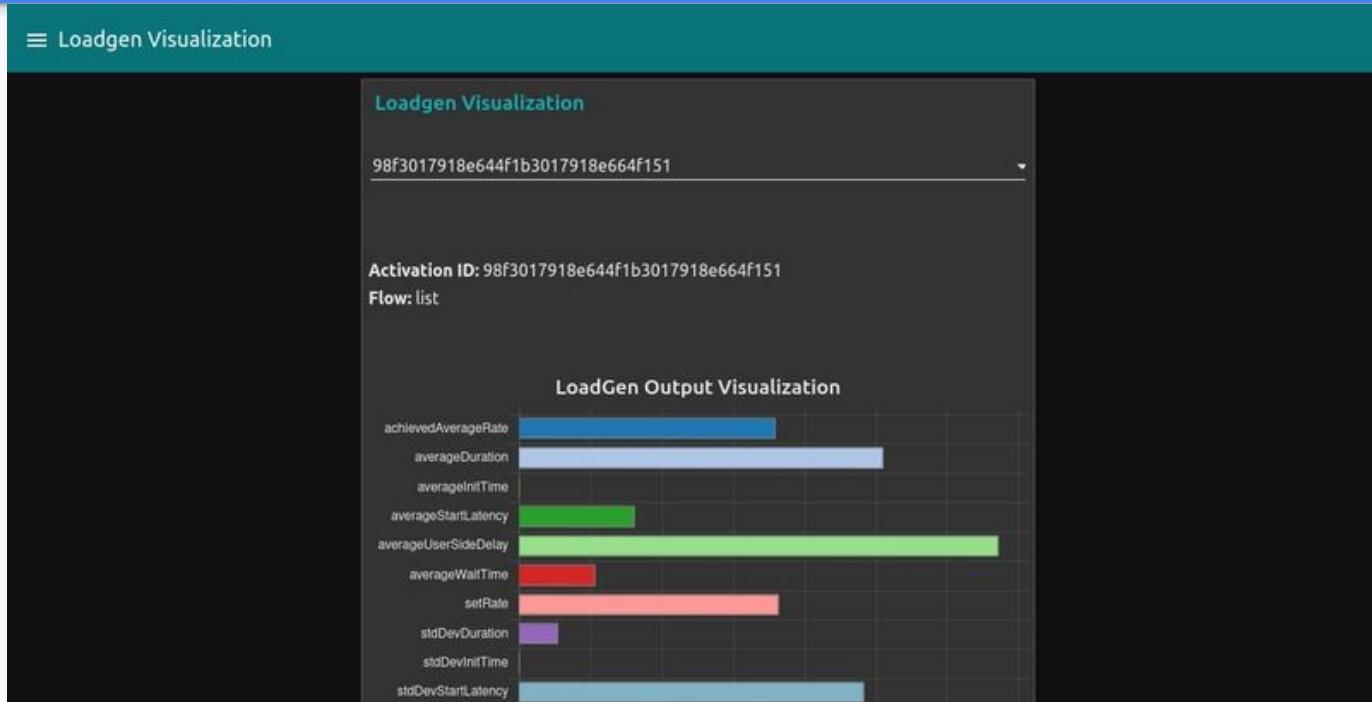
Prometheus Data Visualization



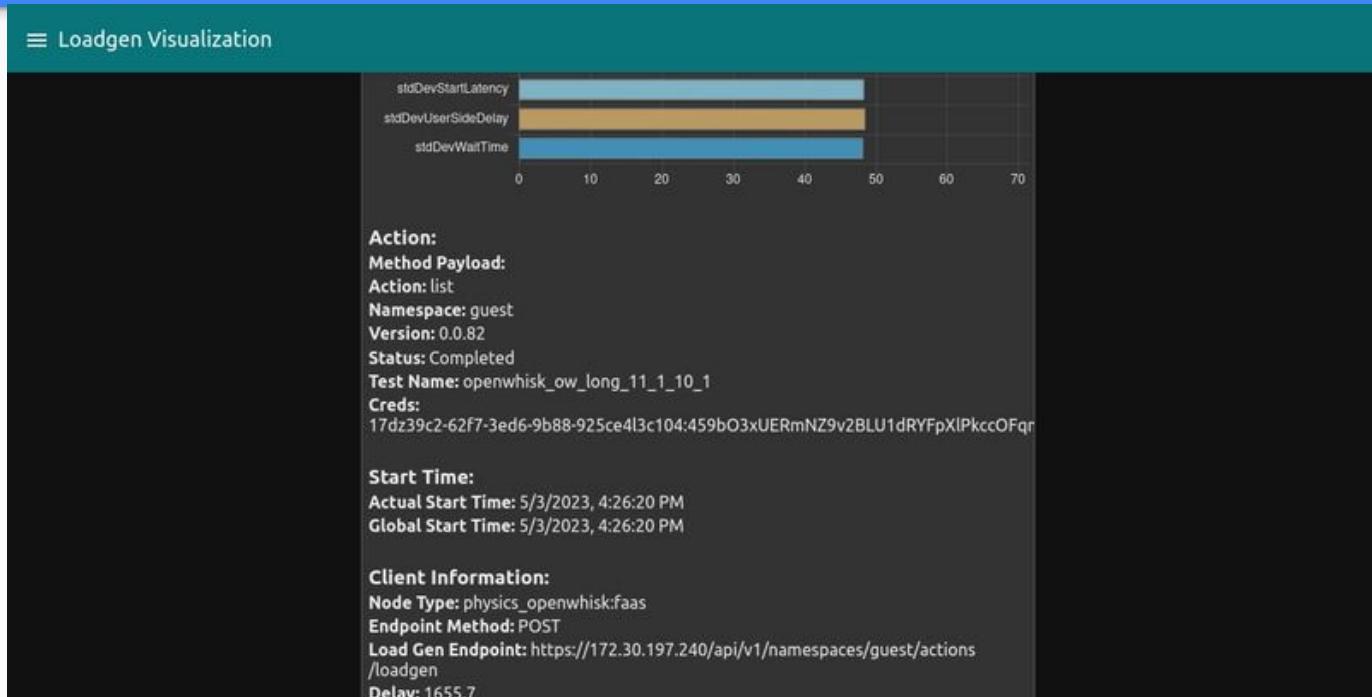
Prometheus Data Visualization



Loadgen Data Visualization



Loadgen Data Visualization



Loadgen Data Visualization

≡ Loadgen Visualization

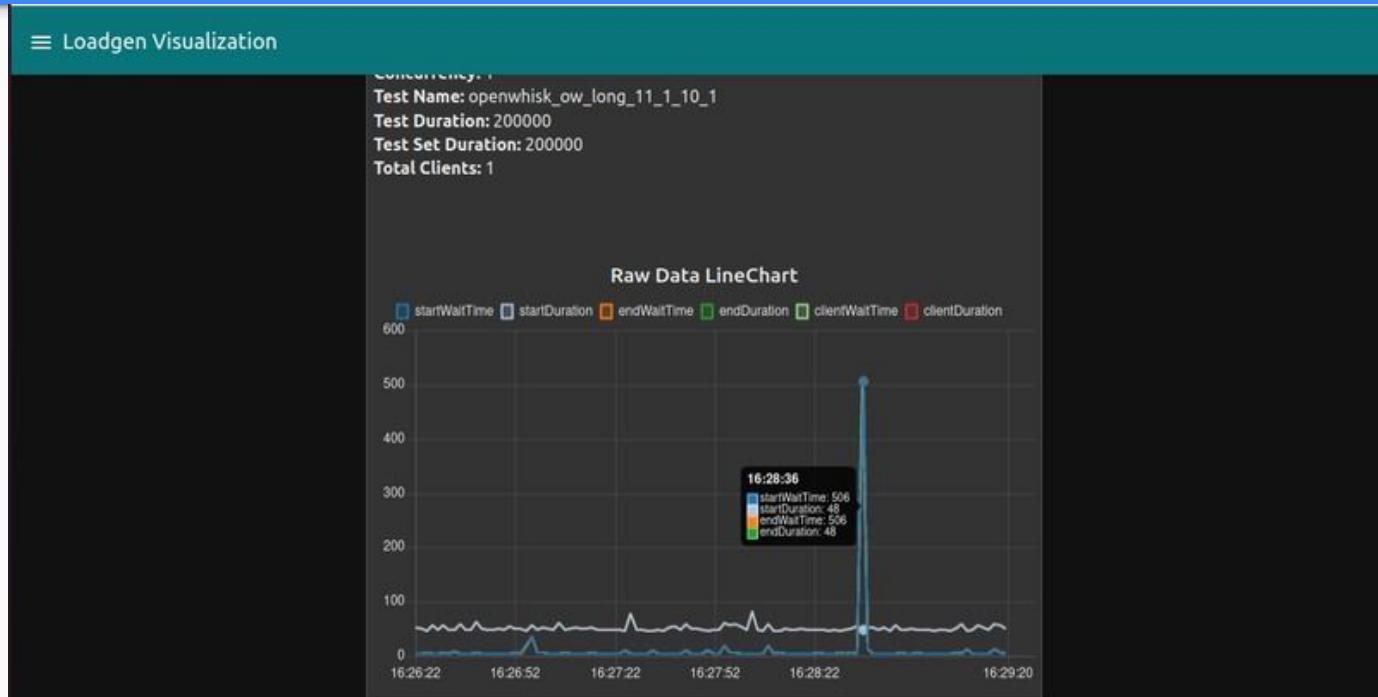
Client Information:

Node Type: physics_openwhisk:faas
Endpoint Method: POST
Load Gen Endpoint: <https://172.30.197.240/api/v1/namespaces/guest/actions/loadgen>
Delay: 1655.7
Client Number: 1
Cold Starts: 0
Launch Generator Delay: 160

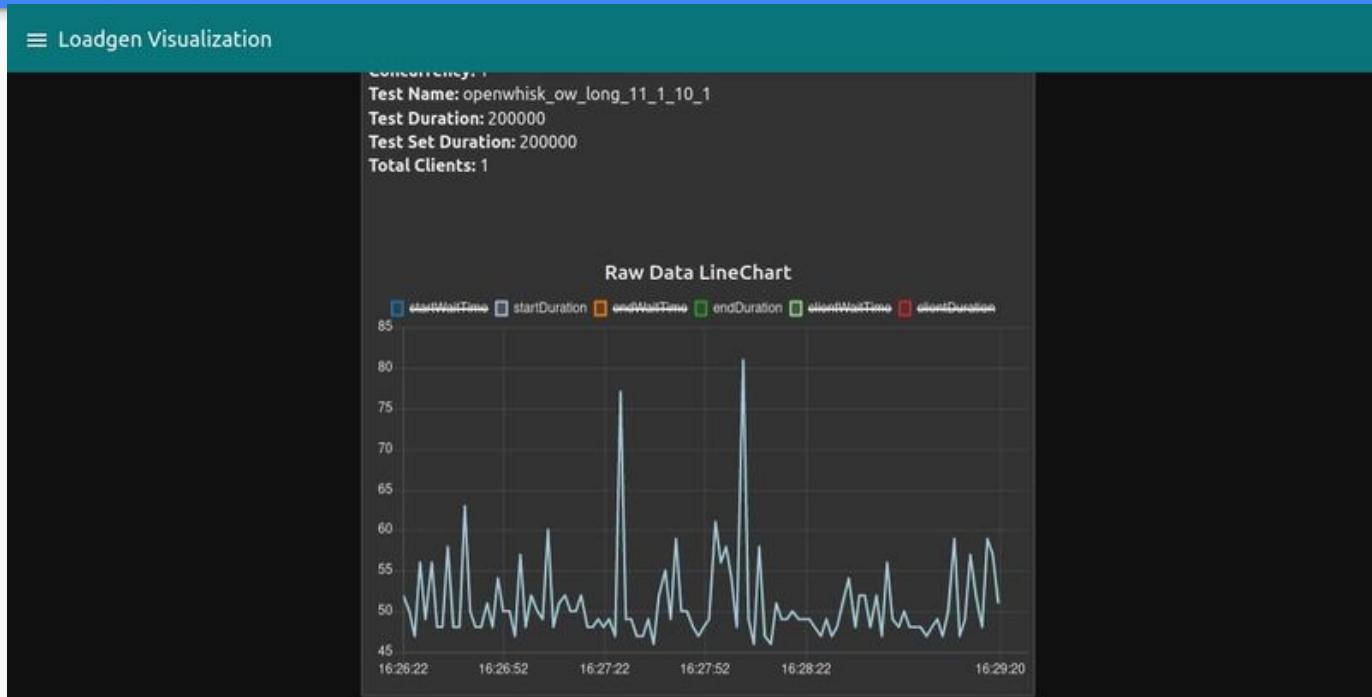
Additional Information:

Memory: 256
Other Info: 1000
Parent Sample Time: 5/3/2023, 4:26:20 PM
Sample Number: 108
Status: Completed
Status Endpoint: <https://172.30.197.240/api/v1/namespaces/guest/activations/>
Target Endpoint: <https://172.30.197.240/api/v1/namespaces/guest/actions/list>
Success: true
Success Percentage: 100
Concurrency: 1
Test Name: openwhisk_ow_long_11_1_10_1
Test Duration: 200000
Test Set Duration: 200000
Total Clients: 1

Loadgen Data Visualization



Loadgen Data Visualization



Common Functions Challenge

Common Functions Challenge

- One docker image with 3 functions: Quicksort, Weighted Average and K-Means Clustering.
- Set the param function to the desired function.
- <https://hub.docker.com/r/kazakos13/common-functions>

Subflows Challenge

Subflows Challenge

- We have made a collection of subflows submitted in node red library.
- Implemented Subflows: Quicksort, Quicksort with Docker, Weighted Average, Weighted Average with Docker, Common Functions Subflow, Many Weather API Subflow, City Info Subflow.
- <https://flows.nodered.org/collection/052-kzn3RATd>

Video Demonstration



Documentation & Other Links

- [Documentation](#)
- [Github Repository](#)
- [Docker Image](#)
- [Node-red Collection](#)
- [App Video Showcase](#)

Thanks For Your Time!