# 2nd PHYSICS Hackathon 2023

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# Game Challenge

# Game Challenge



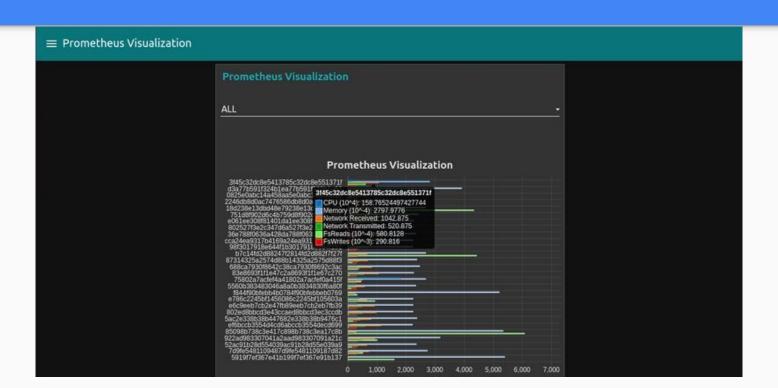
# Data Visualization Challenge

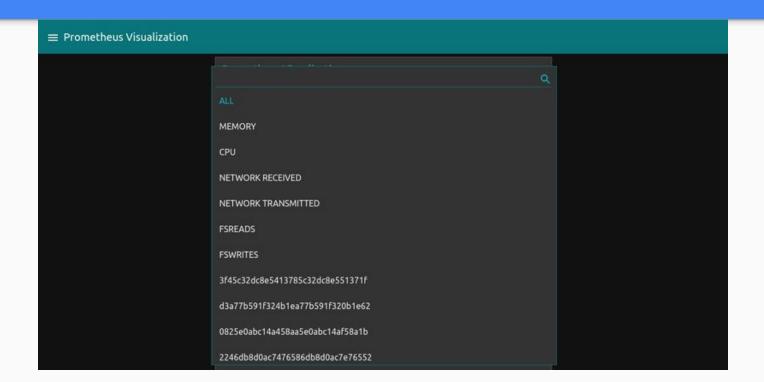
#### **Profile Data Visualization**

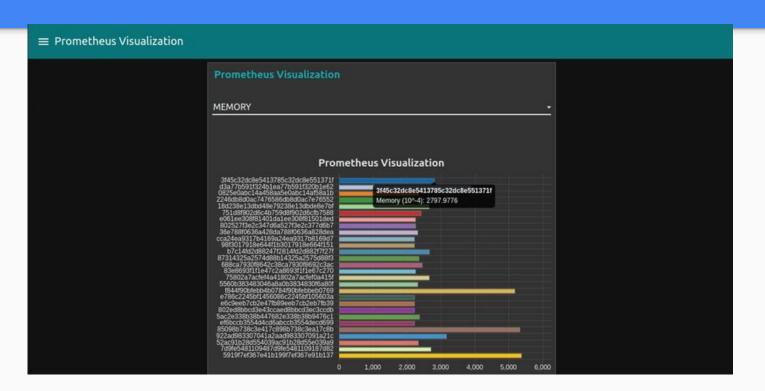


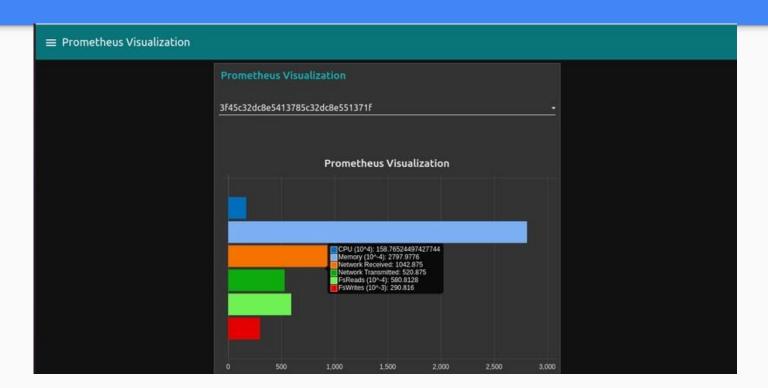
#### **Profile Data Visualization**

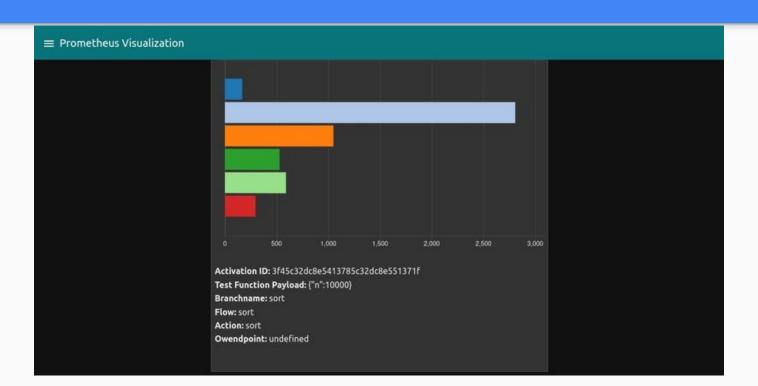


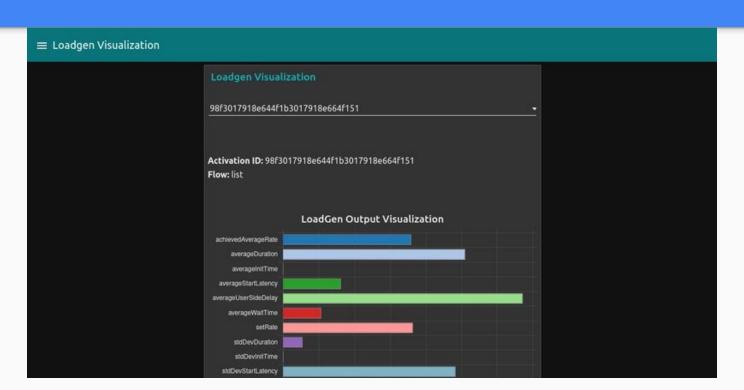


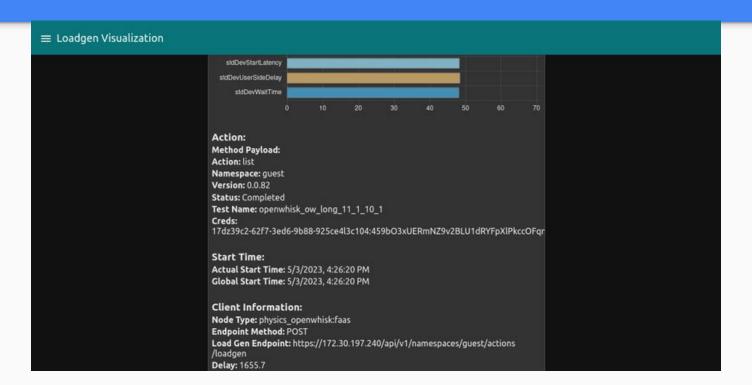




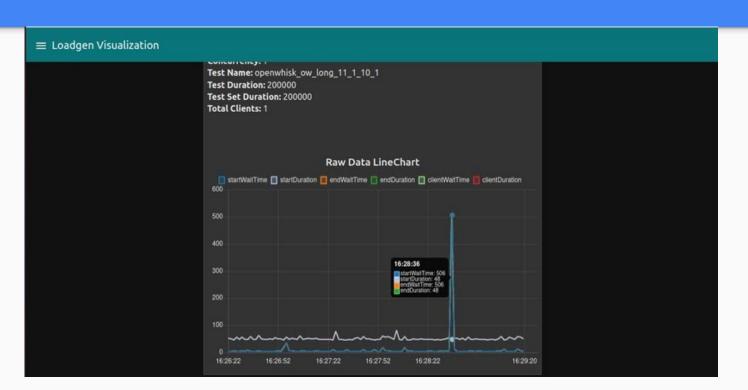








#### ■ Loadgen Visualization Client Information: Node Type: physics\_openwhisk:faas **Endpoint Method: POST** Load Gen Endpoint: https://172.30.197.240/api/v1/namespaces/guest/actions /loadgen Delay: 1655.7 Client Number: 1 Cold Starts: 0 Launch Generator Delay: 160 Additional Information: Memory: 256 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





# Common Functions Challenge

### Common Functions Challenge

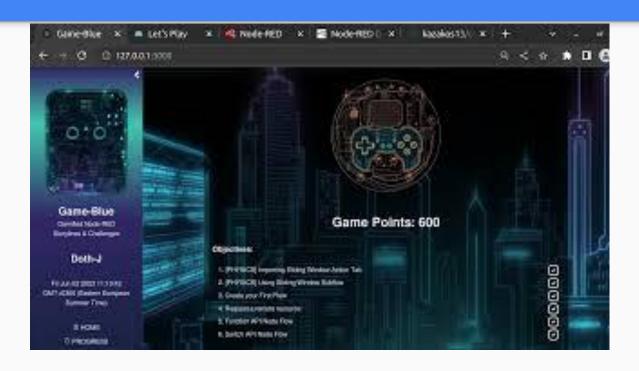
- One docker image with 3 functions: Quicksort, Weighted Average and K-Means Clustering.
- Set the param function to the desired function.
- https://hub.docker.com/r/kazakos13/common-functions

# 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**

- <u>Documentation</u>
- Github Repository
- Docker Image
- Node-red Collection
- App Video Showcase

# Thanks For Your Time!