

Performance analysis of a multi-container Autoware deployment #5059

New issue

Open

oguzkaganozt opened this issue on Aug 1 Discussed in [#5012](#) · 2 comments



oguzkaganozt commented on Aug 1 •

Contributor

edited ▾

Discussed in

<https://github.com/orgs/autowarefoundation/discussions/5012>

Originally posted by oguzkaganozt July 18, 2024

Motivation

Now that the **Open AD Kit** containers are being used by different parties on different demos/activities etc. Testing **multi-container** behaviour and conducting a performance analysis can lead the way through the best possible approach on how to upsteam multi-container deployment to the Autoware.

Possible Approach

Phase 1

Utilizing [Reaction Analyzer Tool](#) for measuring end-to-end latency of the system with 2 containers being [planning-control & perception-localization](#) by using pre-recorded rosbags and map.

Phase 2

Replicating [TUM](#)'s take on modular Autoware's setup on a smaller scale by using **7 modular containers** with the help of [Reaction Analyzer Tool](#) for measuring end-to-end latency of the system

Definition of done

Performance analysis report comparing **bare-metal**, **Phase-1** and **Phase-2** deployment results in a summarized format.

Assignees



oguzkaganozt



batuhanbeytekin

Labels

component:openadkit

type:containers

Projects



Open AD Kit Working Group



Status: Execution

+1 more

Milestone

No milestone

Development

No branches or pull requests

2 participants



oguzkaganozt added

type:containers

component:openadkit labels on Aug 1




oguzkaganozt assigned batuhanbeytekin on Aug 1



oguzkaganozt added this to Open AD Kit Working Group on Aug 1



 **oguzkaganozt** moved this to **Execution** in **Open AD Kit Working Group** on Aug 1

  **oguzkaganozt** moved this from **Execution** to **Foundation** in **Open AD Kit Working Group** on Aug 1

  **oguzkaganozt** moved this from **Foundation** to **Execution** in **Open AD Kit Working Group** on Aug 1



oguzkaganozt commented
last month

Contributor

Author

[Performance Test Comparison Report_ Autoware Universe vs OpenADKit v2.pdf](#)
[Open_AD_Kit_Project_Documentation.pdf](#)



1




oguzkaganozt commented
2 weeks ago

Contributor

Author

Performance analysis of Autoware nodes within container using reaction analyzer tool has been finalized with above result papers.



 **oguzkaganozt** self-assigned this 2 weeks ago