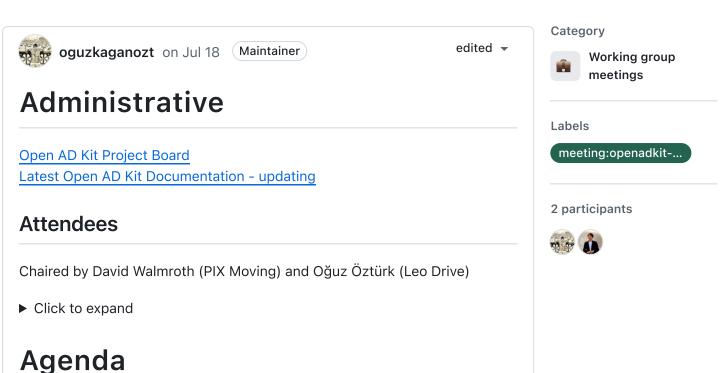


Open ADKit Working Group Meeting 18/07/2024 #5010

oguzkaganozt started this conversation in Working group meetings



Agenda

DevOps Dojos: Build/Run: Open AD Kit Modular Images

- Agenda item maintainers: @oguzkaganozt , @youtalk
 - New discussion around modular containers
 - What about previous modular containers (planning, perception, simulator, visualizer) that has been used within demos?

DevOps Dojos: Ros Node Configuration Updates

- Agenda item maintainers: @kaspermeck-arm

Spreadsheet for node updates

Call for volunteers

Step-by-step Documentation

Step-by-step Video Tutorial

Re-arrangement of the spreadsheet

Technical Optimizations for Container Management

- - Enable docker caching for docker builds

- Agenda item maintainers: @youtalk, @oguzkaganozt

- Re-working dependencies to reduce the size of the containers and for making maintenance easier
 - The list of Top 25 ROS nodes that includes most <depend> tags
 - Last years's huge PR related -> \(\frac{1}{6}\) build: remove unused <depend>
 in package.xml files autoware.universe#3606
 - Example of the motivation

Performance Analysis of Modular Containers

- Agenda item maintainers: @batuhanbeytekin, @oguzkaganozt, @brkay54
 - https://github.com/orgs/autowarefoundation/discussions/5012
 - Replicating similar performance tests of TUM paper by using perception and planning containers @oguzkaganozt
 - Performance analysis by using Reaction Analyzer @batuhanbeytekin

Open AD Kit Bugs & Feature Requests

- Agenda item maintainers: @idorobotics, @oguzkaganozt
 - Assess open-ad-kit related bugs, issues or feature requests from community channels (github, discord, or other platforms)
 - A CUDA bug will be resolved with this PR
 - A documentation bug will be resolved with this PR

2024 Demo Planning and Activities: AutoTech Detroit 2024 Wrap up

- Agenda item maintainers: @HamburgDave, @samet-kutuk
 - AutoTech Detroit (June 5-6):
 https://docs.google.com/presentation/d/1UD_0tlhRgfjmQami1nyKxh5feY
 5TGre4YTOAG1AZWik/edit?usp=sharing
 - (Potential) AVTE California / Aug 28-29
 - (Potential) IEEE ITSC / Sep 24-27
 - (Potential) IROS 2024 / Oct 14-18
 - (Potential) ROSCon / Oct 21-23

RViz Visualization by using WebRTC

- Agenda item maintainers: @oguzkaganozt, @kaspermeck-arm, @esteve
 - Assess the strengths and weaknesses of using Ros bridge and rvizweb
 - https://github.com/RobotWebTools/webrtc_ros
 - https://github.com/pgaston/teleopros2/tree/main
 - https://github.com/aiortc/aiortc
 - Jeremy from Amazon has shown interest in the subject with AWS Kinesis
 - Reconnect with Jeremy (AWS) to help us bootstrap this

Active pursuit to find more collaborators for the **Open AD Kit WG**

- Agenda item maintainers: @samet-kutuk, @HamburgDave
 - Outreach to external collaborators
 - Talking to VicOne (a member) on a use case to incorporate their IDPS (Intrusion Detection and Prevention System) with the Open AD Kit
 - Talking to **EPAM Systems** on the general architectures of SDV and understanding load balancing of automotive workloads in heterogeneous computing.
 - Talking to TUM on their PoC work on massive Autoware containerization
 - They are open-sourcing their study and work (performance analysis of containerized Autoware workloads)
 - They will be able to present their work soon at the Open AD Kit WG

Open AD Kit Hardware Availability

- Agenda item maintainers: @HamburgDave, @samet-kutuk
 - ADLINK presented their autonomy HW lineup in Ref. Des. WG. BSP does not yet support Yocto(?).
 - AADP: Allocating all available units around the world
 - 7Starlake: we heard that some eval units can be made available for testing
- Reach out to Joe Speed for 7starlake eval units (BSP/Yocto question) pending).

1

2 comments · 1 reply

Oldest Newest

Top



youtalk on Jul 18 (Collaborator)

I would like to discuss about the tag naming conventions and the container image slim down.

- https://github.com/orgs/autowarefoundation/discussions/4995
- https://github.com/orgs/autowarefoundation/discussions/5007

1

1 reply



youtalk on Jul 18 (Collaborator)

I'm sorry but I'm going to sleep today...

