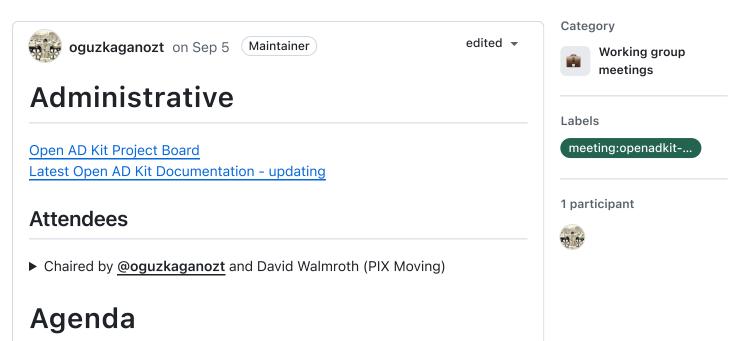


Open ADKit Working Group Meeting 05/09/2024 #5179

oguzkaganozt started this conversation in Working group meetings



Images

DevOps Dojos: Build/Run: Open AD Kit Modular

- Agenda item maintainers: <u>@oguzkaganozt</u> , <u>@youtalk</u>
 - Modular containers project board
 - Modular Container Discussion
 - 🎥 feat(docker): no longer support devel image #5171
 - \$\mathbb{F} \text{ feat(docker): install CUDA drivers in autoware:base image #5159
 - Performance Analysis of Modular Containers

Open AD Kit Discussions & Issues

- Agenda item maintainers: @idorobotics, @oguzkaganozt
- Assess open-ad-kit related bugs, issues or feature requests from community channels (github, discord, or other platforms)

Open AD Kit Project Board

- Issues:
 - OpenADKit
 - Containers
- Discussions:
 - o <u>Op</u>enADKit

Containers

DevOps Dojos: Ros Node Configuration Updates

- Agenda item maintainers: <u>@kaspermeck-arm</u>, <u>@oguzkaganozt</u>
Call for volunteers
Step-by-step Documentation
Step-by-step Video Tutorial

• Spreadsheet for node updates

Open AD Kit Demo Archives

- Open AD Kit demo repos and artifacts will be published and showcased by specific forks within the Autoware project

CES 2024 Demo Branch is Released
Working on AutoTech 24 for Open AD Kit PIX integration

Remote RViz Visualization

- Agenda item maintainers: @oguzkaganozt, @kaspermeck-arm

Overall best out-of-the-box solution: Visualizer container with built-in window manager and VNC support with bonus noVNC-support

Discussion: https://github.com/orgs/autowarefoundation/discussions/5099

Related idea: RobotWebTools/rosbridge_suite#757

Given the benefits of modern web technologies and the need for flexibility, WebRTC with rosbridge(ROS Web Tools) with the help of <u>aiortc</u> would be the ideal choice.

Aspect	X11 Forwarding	VNC	X2Go	Wel
Primary Function	Remote application visualization	Full desktop remote access	High- performance remote desktop	Real-t media data strear
Protocol	X11 over SSH	RFB (Remote Framebuffer Protocol)	NX protocol	WebR (Peer- peer)
Compression	Minimal (SSH encryption overhead)	Various (e.g., Tight, H.264)	Advanced compression and caching	High- efficie comp
Bi-Directional ROS Messaging	No	No	No	Yes

Aspect	X11 Forwarding	VNC	<u>X2Go</u>	Wel
Platform Independence	Limited	Limited	Limited	High
Ease of Setup	Low	Moderate	Moderate to High	High
Security	Integrated with SSH	Requires secure tunnel (e.g., SSH)	Built-in secure connection	Requi securi (DTLS
Performance	Slow- Moderate	Moderate	High	High

Open AD Kit Hardware Availability

- Agenda item maintainers: @samet-kutuk, @HamburgDave
 - ORIN: Recently successfully tested
 - https://github.com/futurenowx/autoware
 - AADP: Being used on various demos
 - ADLINK presented their autonomy HW lineup in Ref. Des. WG. BSP does not yet support Yocto(?).
 - 7Starlake: we heard that some eval units can be made available for testing

2024 Demo Planning and Activities

- Agenda item maintainers: @samet-kutuk, @HamburgDave
 - 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

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1 comment

Oldest

Newest



oguzkaganozt on Sep 5 (Maintainer) (Author)

Issue -> #5180

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0 replies