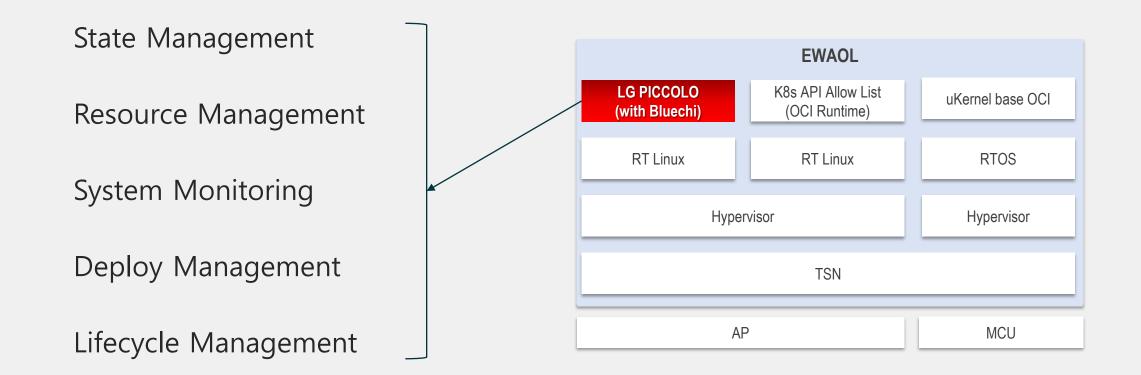
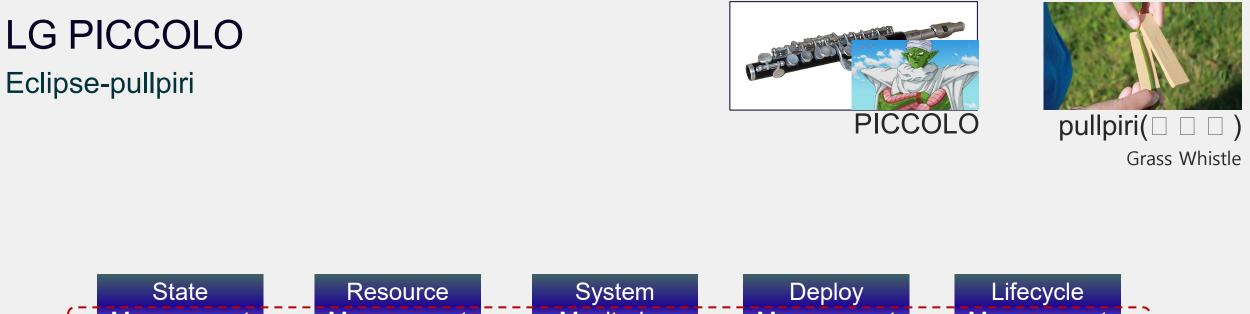
LG PICCOLO on EWAOL

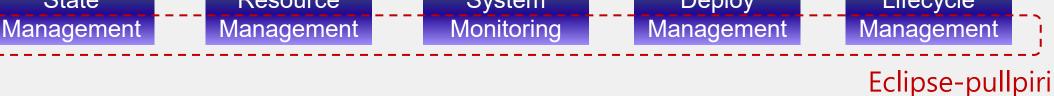
and Future Collaboration Opportunities within SOAFEE

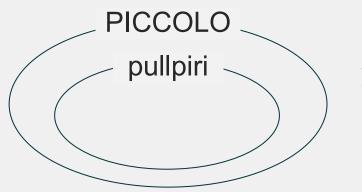
Chul-Hee Lee LG Electronics 2025-05-15







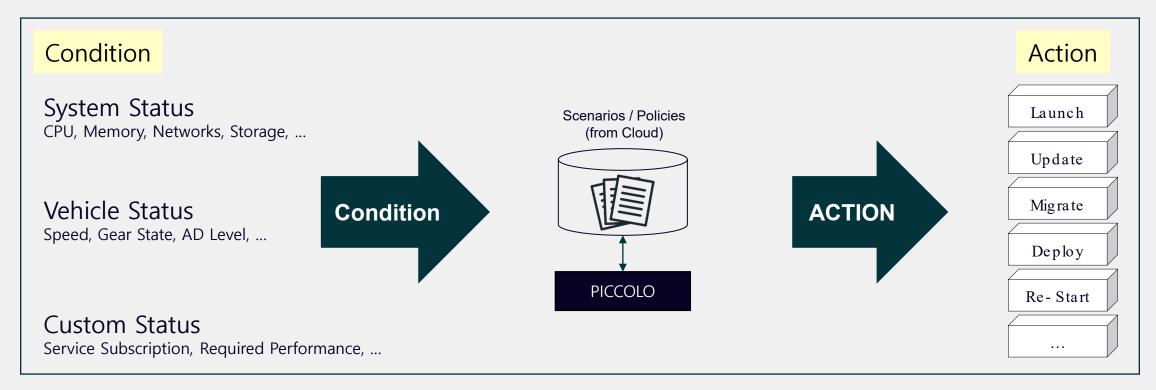




One of the key differences is that pullpiri does not include features such as Container Network Interface, Storage management capabilities, or Workload CPU Time Scheduler.

State Management

Manage the necessary actions based on the condition of the system, vehicle, custom status

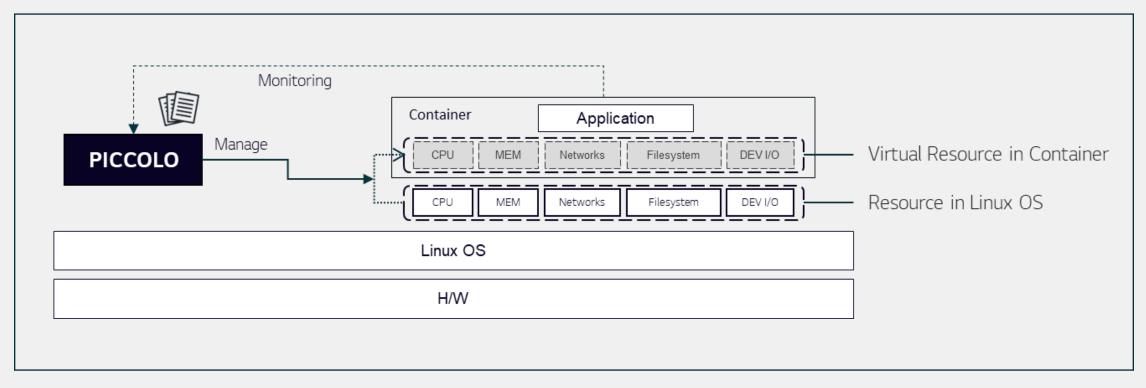


> Reduce software complexity, lower management costs, and enable rapid development and validation



Resource Management

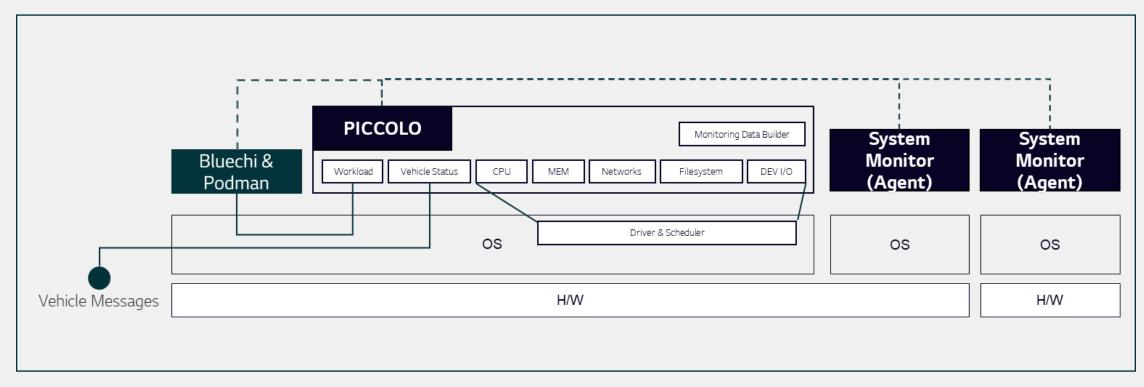
Manage access to the Computing, Network, Storage, and Devices related to the workload



> Enables stable system operation, reducing the system integration costs



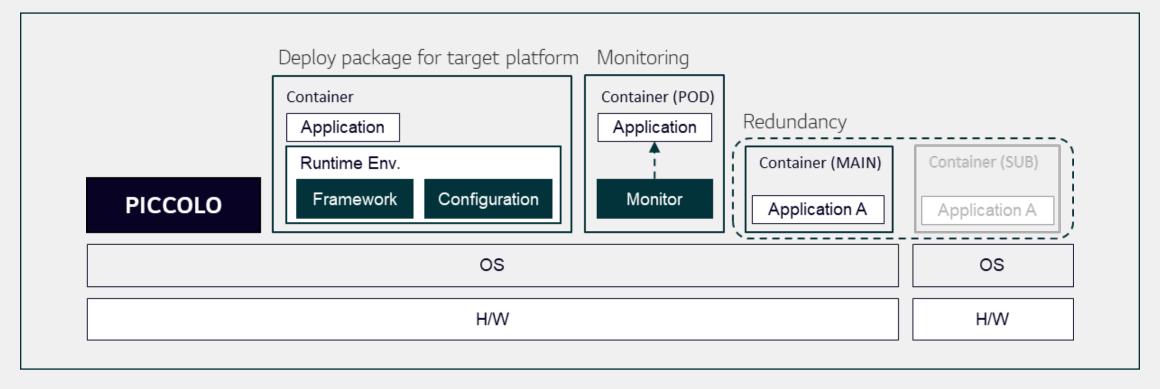
Monitors vehicle status, workload status, and resources



> Enables stable system operation, Easy management for Vehicle Monitoring

Deploy Management

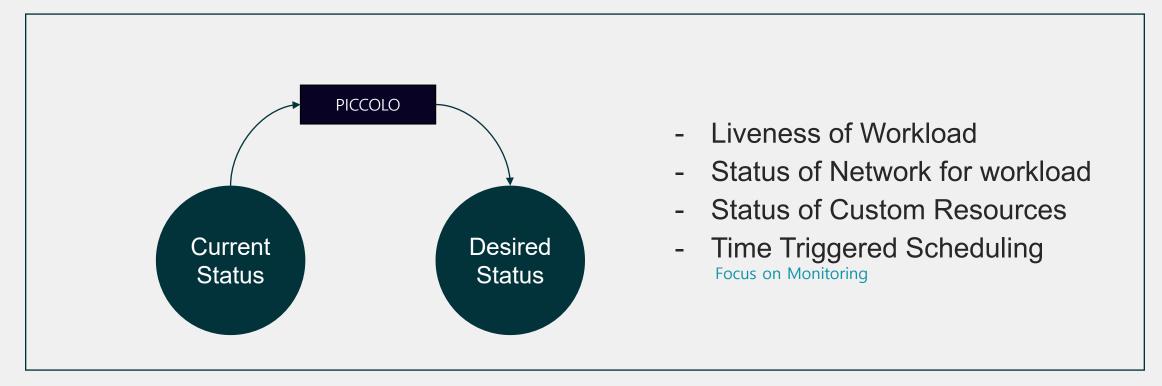
Manage the deployment timing, location, runtime environment, and struct of the workload



> Enables to reduce cost for integration and operation workloads

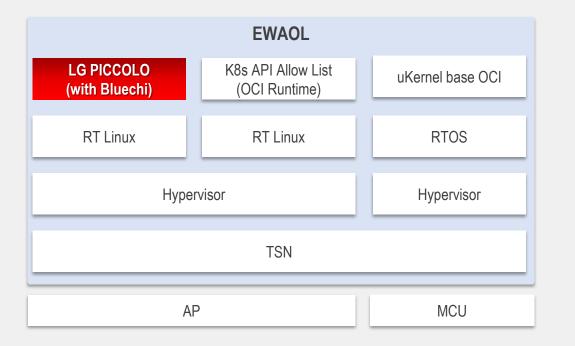
Lifecycle Management

Managing Workload Lifecycle and Deterministic Factors



> Enables easy and stable software management and operations

LG PICCOLO on EWAOL



https://github.com/MCO-PICCOLO/meta-piccolo

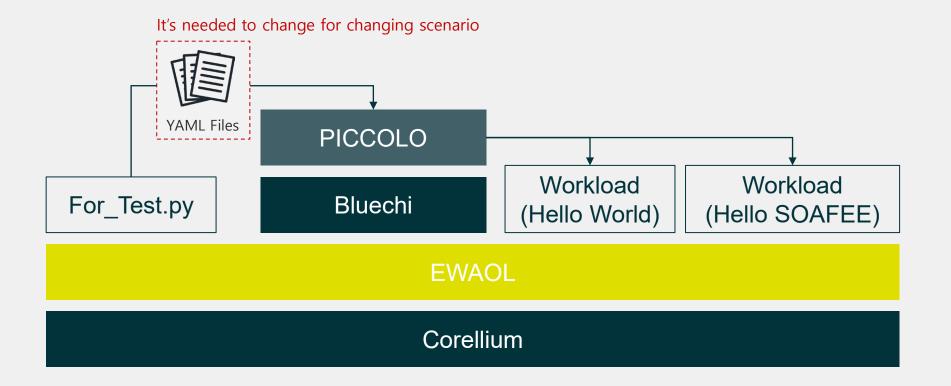
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Syonghyeon-kim add example dds sender and	d target image	4d	a72ab · 4 days ago	🕓 5 Commits	
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ecipes-piccolo	add example dds sender and target image		4 days ago		
🗋 README.md	Update README.md			2 weeks ago	

https://github.com/eclipse-pullpiri/pullpiri

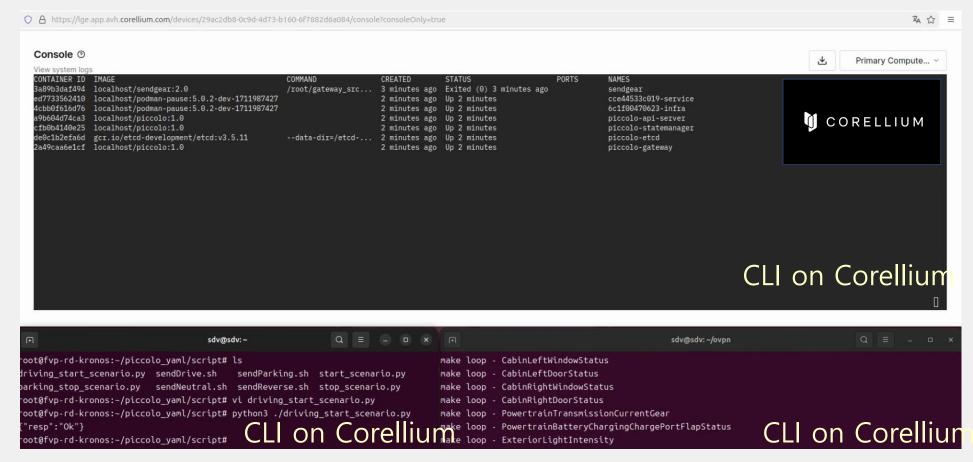
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🐉 main 👻 🐉 2 Branches 🛇 1 Tag	Q Go to file	t Add file \checkmark Code \checkmark
👵 leeeunkoo Merge pull request #7 from yo	ungtaekiim/main	24ba756 · last month 🕚 423 Commits
igithub/_workflows	temporary stop github workflow	last month
LICENSES	add missing licenses of some crate	5 months ago
Containers	add tast mathod	last month

LG PICCOLO on EWAOL

How To Use PICCOLO



LG PICCOLO on EWAOL How To Use PICCOLO



initially prepared a command line demo video, but it turned out to be boring. So, I'll skip it and include it as a guide on GitHub instead.

LG PICCOLO USE-CASE

Upgradable Vehicle Function



LG PICCOLO USE-CASE

Text-Based Condition-Specific Workload Lifecycle Management (BMS)



LG PICCOLO USE-CASE

Enabling Infinite Expansion of User Experience



Next Step of PICCOLO

Apply New Architecture for PICCOLO on pullpiri/refactoring branch

- 1. Improve Performance of Controlling workload
- 2. Implementation of Encrypted String-Based Manifest to Mitigate Security Risks
- 3. Expansion of Monitoring Targets and Vehicle Status Reception Range on Demand

Standardizing Manifests for Workload Structure, Network, and Storage

- 1. Workload Structure : Redundancy, Monitoring, Multi Instances, ...
- 2. Network : Protocol, Topic, Data Structure, ...
- 3. Storage : Path, Permissions, Types, ...

> We are looking for individuals to discuss, validate, and contribute to the standardization process.

Thank You

