Edge AI Cloud Native Brief Introduction

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THELINUX FOUNDATION



The AI Edge Blueprint Family

The AI Edge Blueprint focuses on establishing an open source MEC platform with AI capacities at the edge.

The AI Edge Blueprint is sponsored by Baidu, Arm, and Intel.

□ AI Edge Blueprint R5(release 5) will be released soon.

The AI Edge Blueprint is composed by Federated Machine Learning, Autopilot(I-VICS), Video Monitoring, etc.



AI Edge Blueprint Use Cases

Security Monitoring	Conduct smoke detection on densely populated places such as industrial parks and community properties to quickly detect whether there is a fire, reduce the damage caused by fire, and improve the safety of the park.
Classroom concentration analysis	Conduct a full evaluation of the overall class and the concentration of individual students, help teachers and school authorities to fully understand the teaching situation, according to the concentration data of each course, conduct targeted class knowledge test and strengthen.
Factory safety production	By identifying whether employees wear helmets, safety gloves, etc., monitor and evaluate the work of workers in the workshop to help companies monitor the safety production status in a comprehensive and timely manner. Statistical results and analytical data can be used as a reference for strengthening the level of safety production management.
Kitchen hygiene monitoring	Monitor staff's smoking and cell phone behavior in the kitchen of the catering industry, ensuring the safety and hygiene of the food production process.

Concentration Analysis Helmet Detection

Call Detection

Smoking Detection

Face Recognition

Fire Detection



EDGE STACK



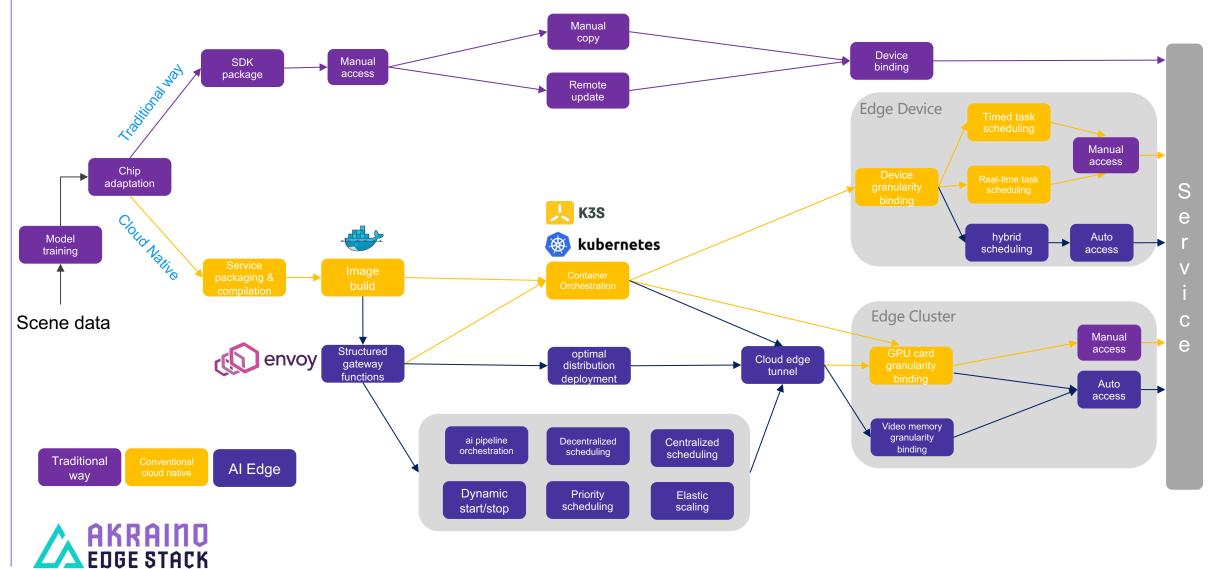




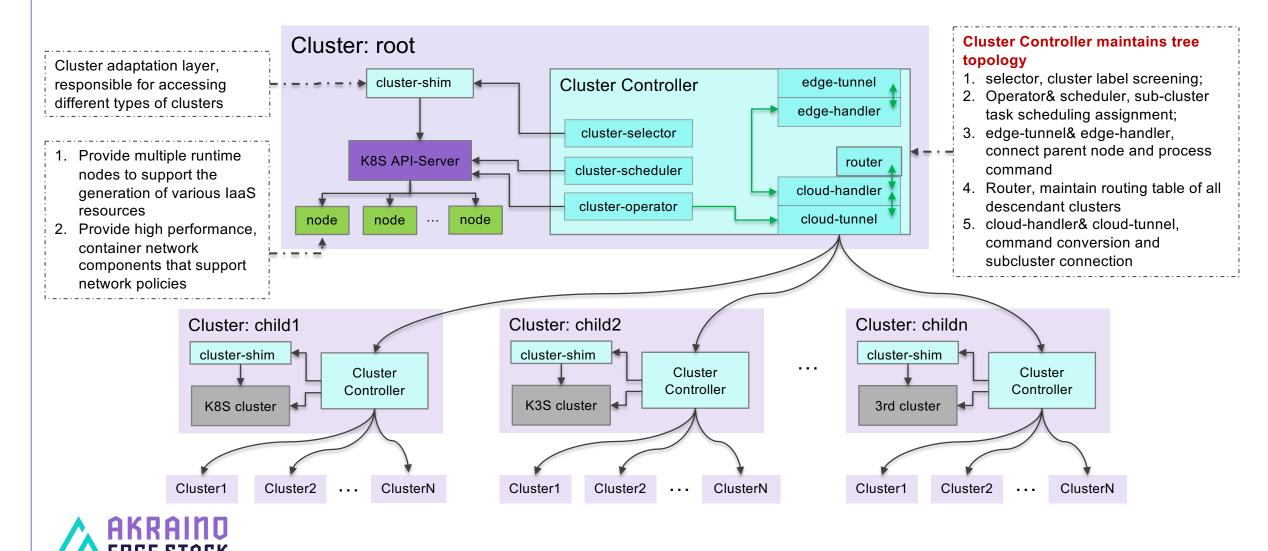




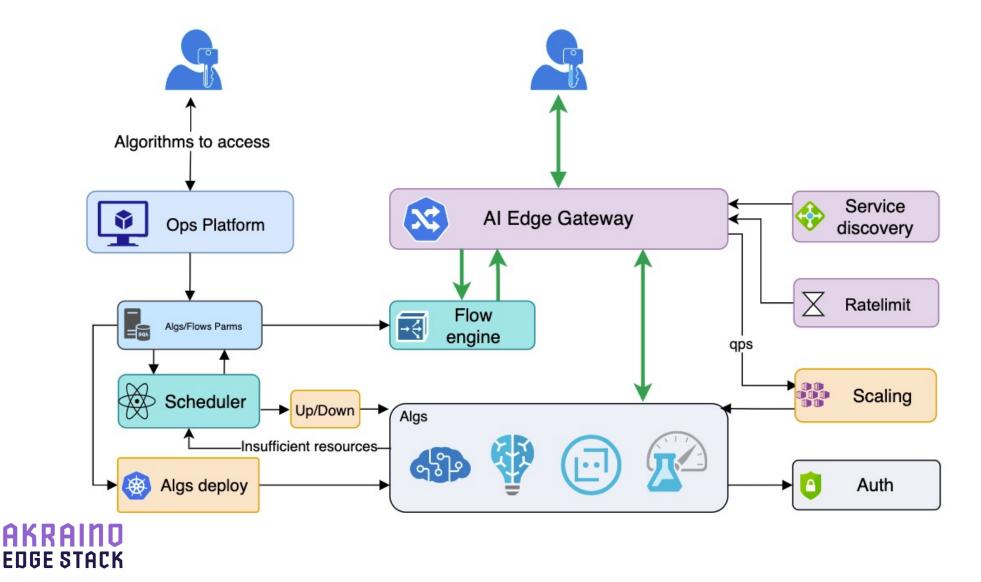
Al algorithm development process



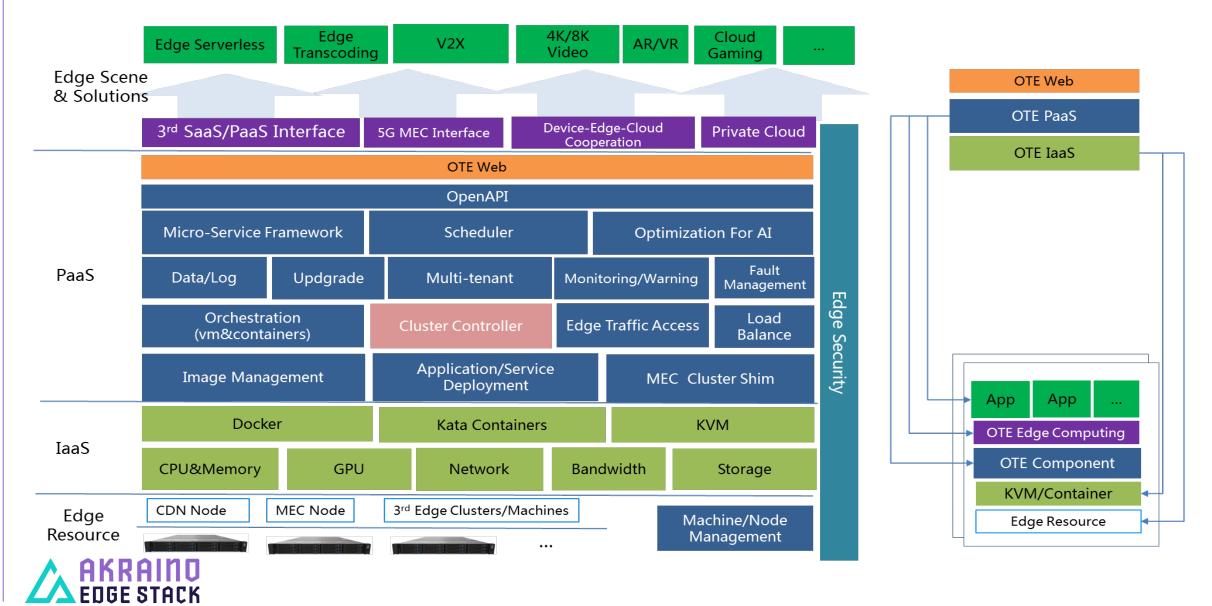
Cloud Edge Container Engine



Orchestration with AI Flow



MEC Software Architecture



Thank you for listening!

