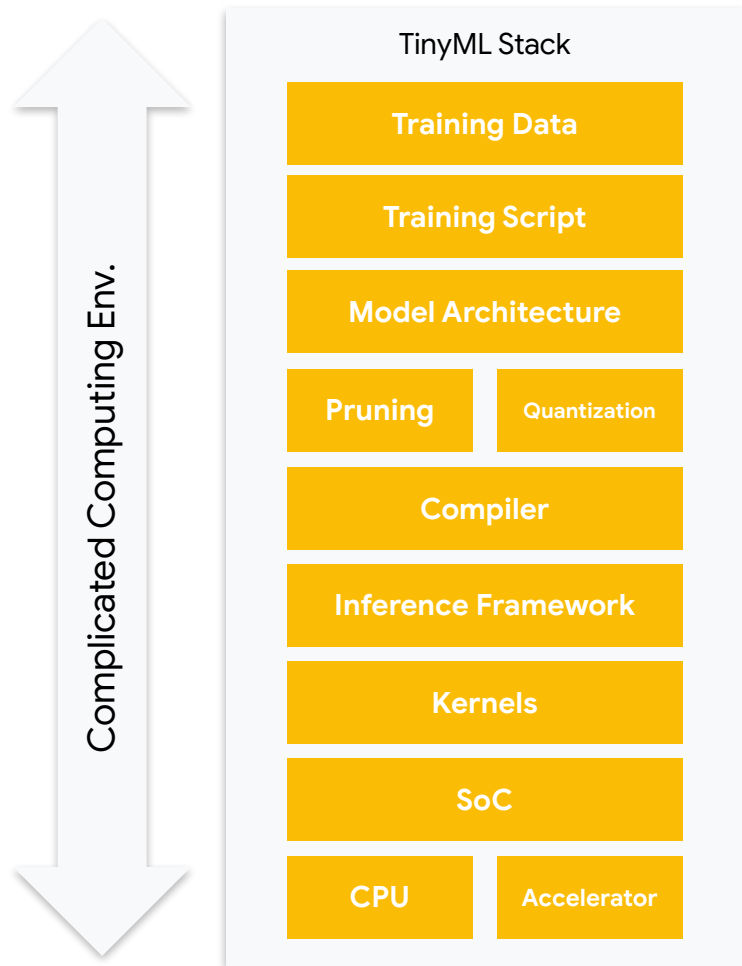
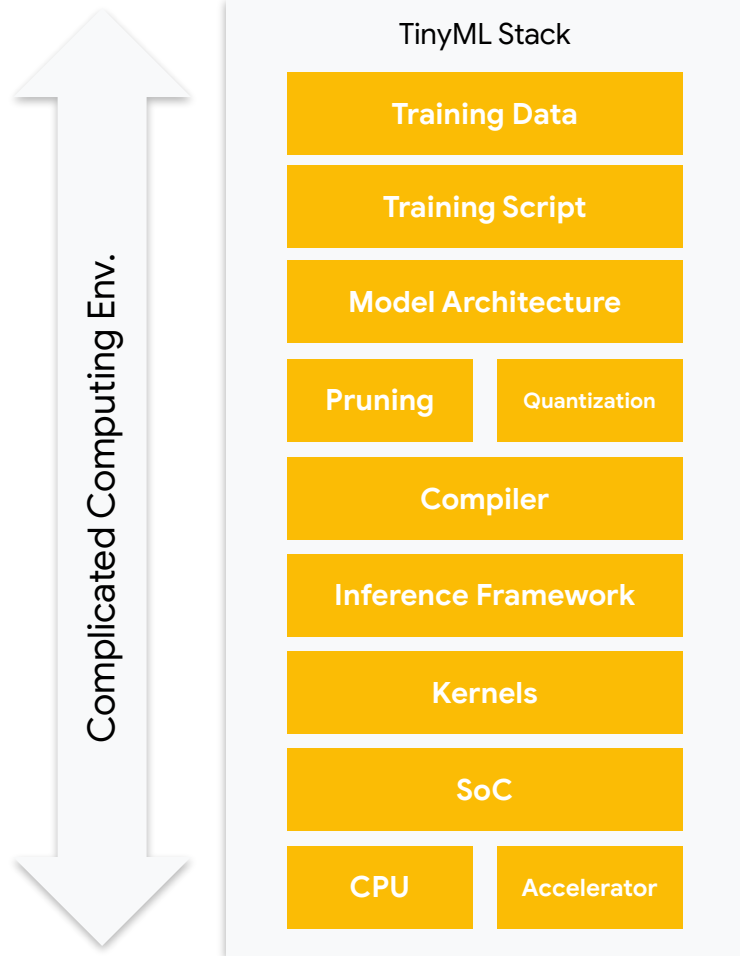


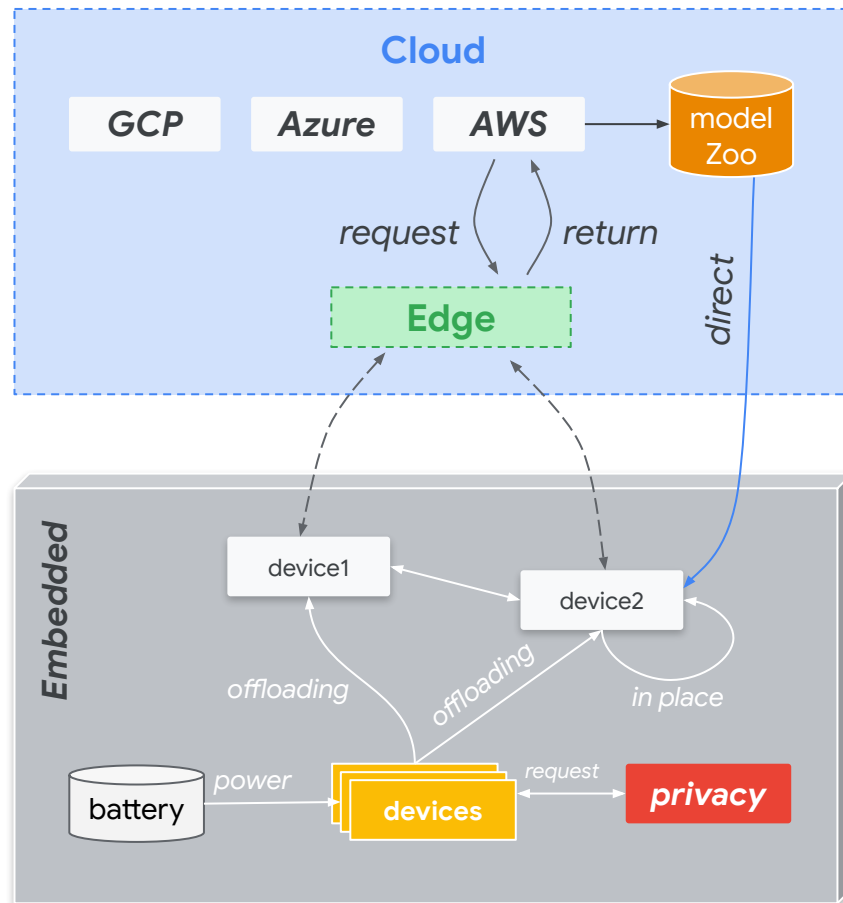
TinyMLaaS (Part 1): An Introduction



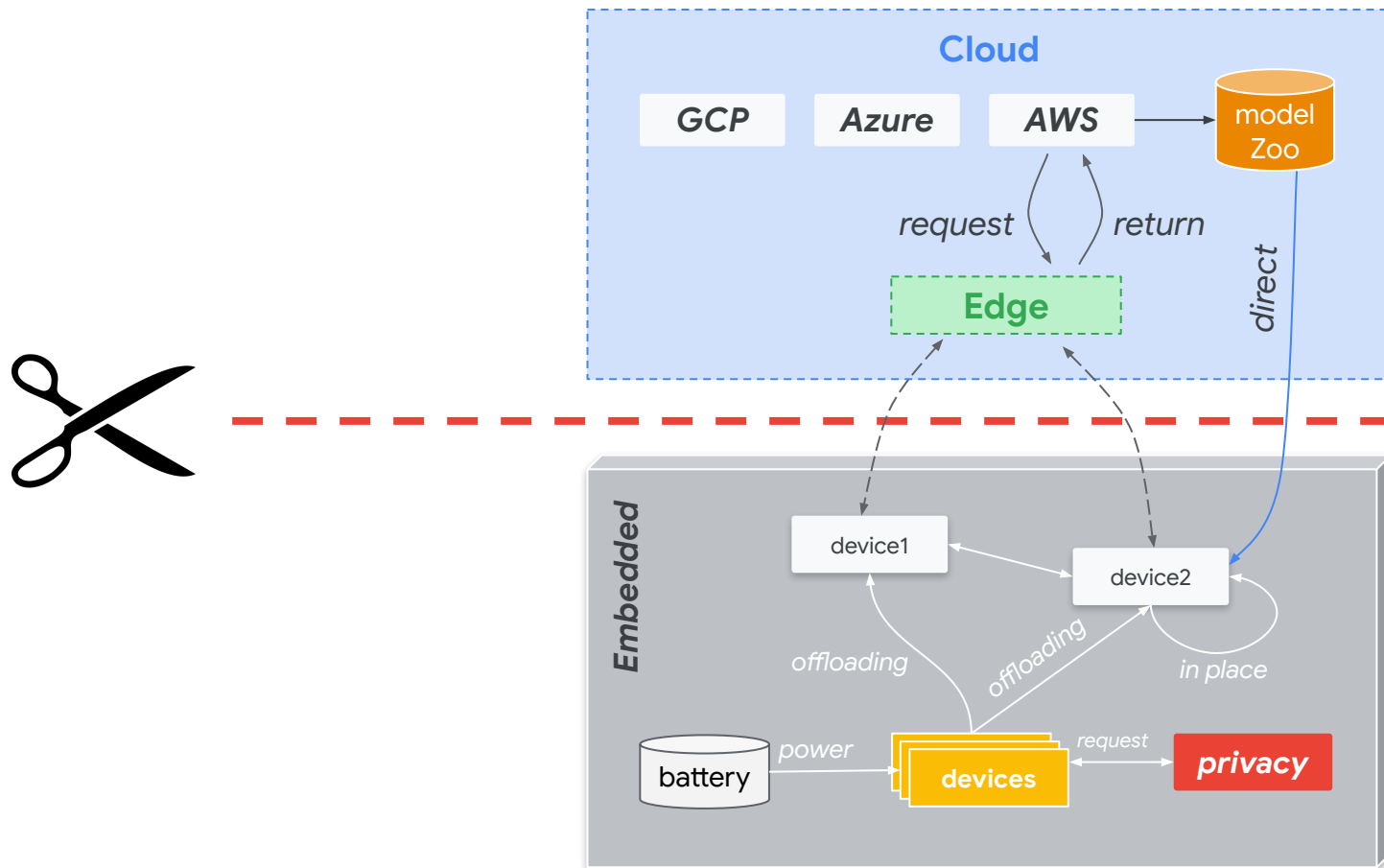




Future

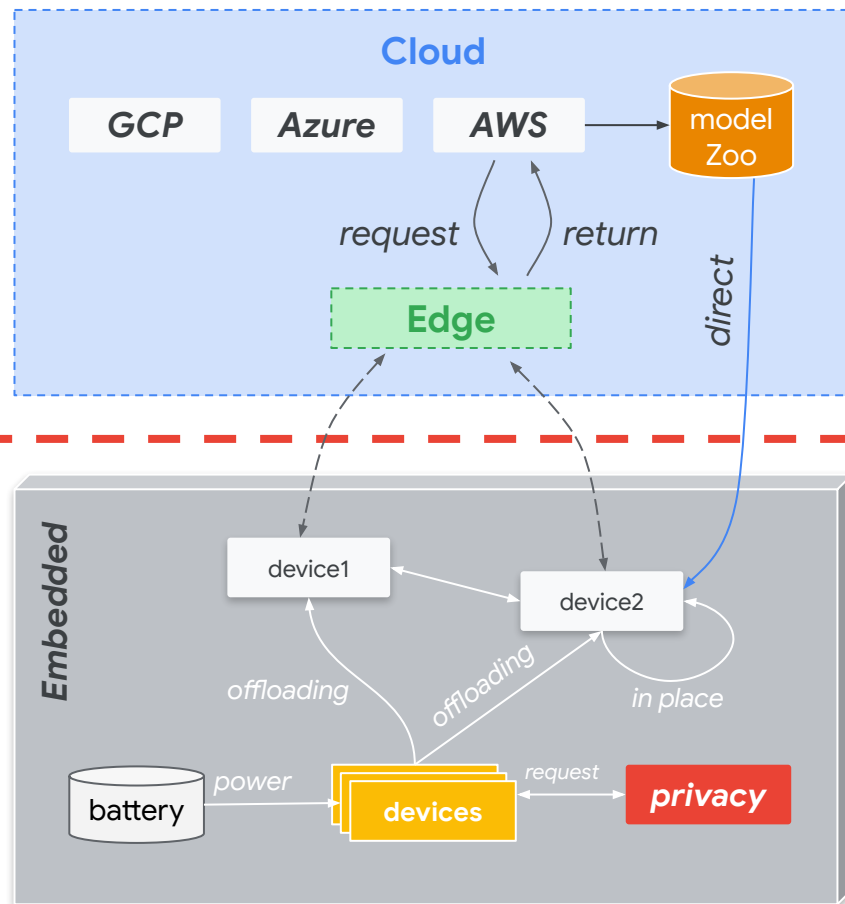
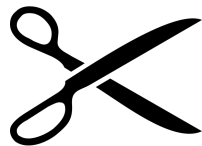


Future



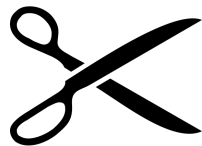
Future

Decouple the **cloud development** environment from the **embedded model deployment** environment

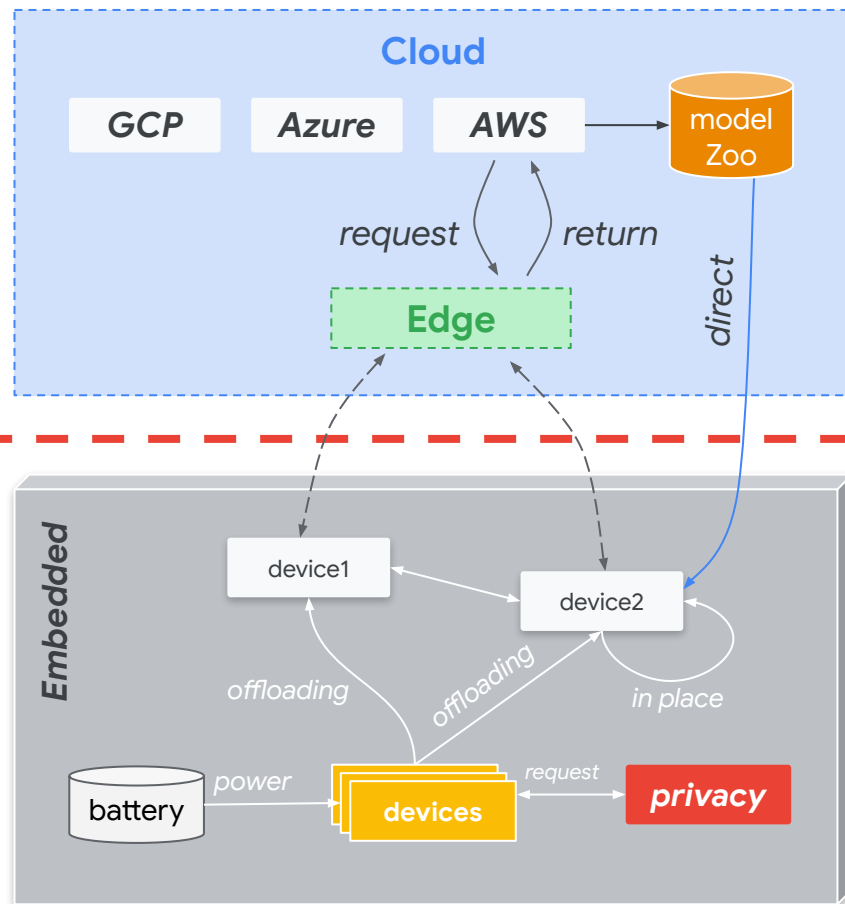


Future

Decouple the **cloud development** environment from the **embedded model deployment** environment

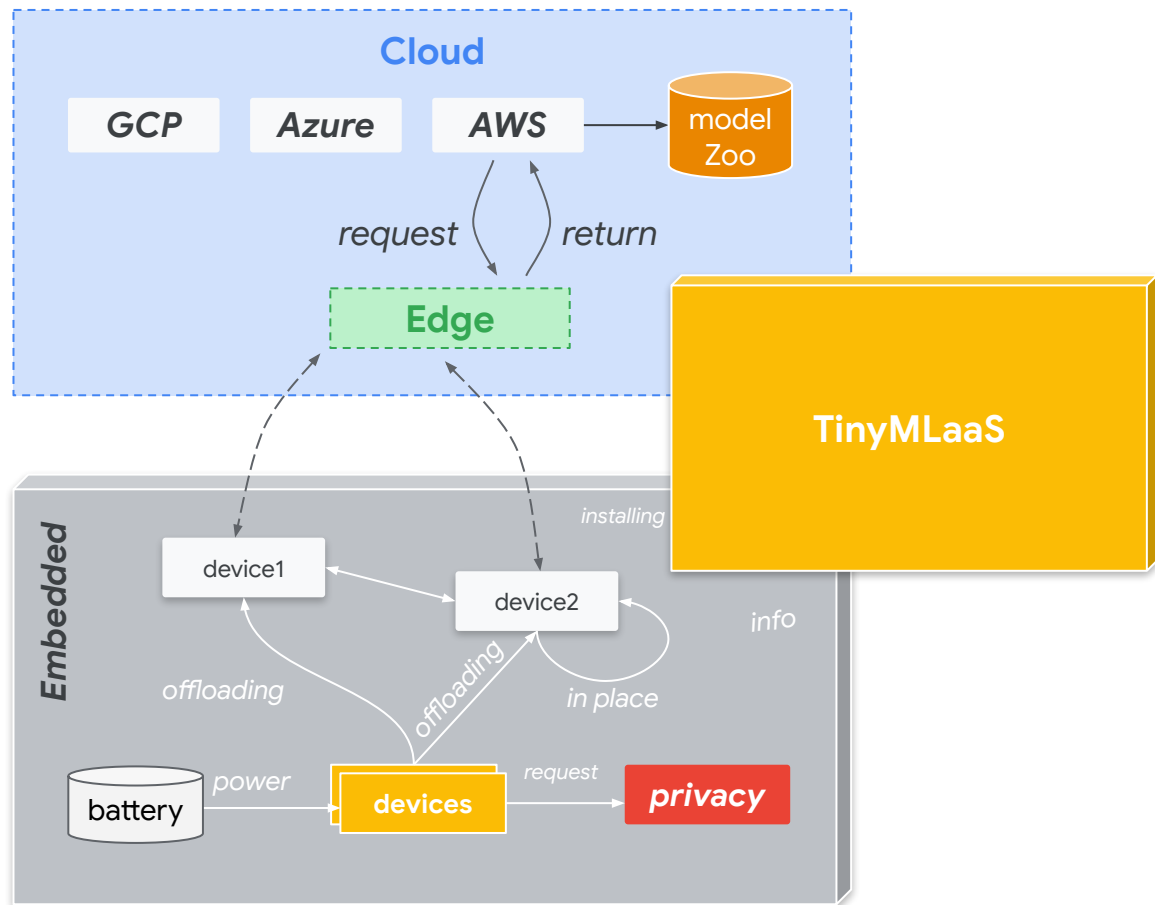


Simplify deployment of ML models to tiny devices and **develop an abstraction**

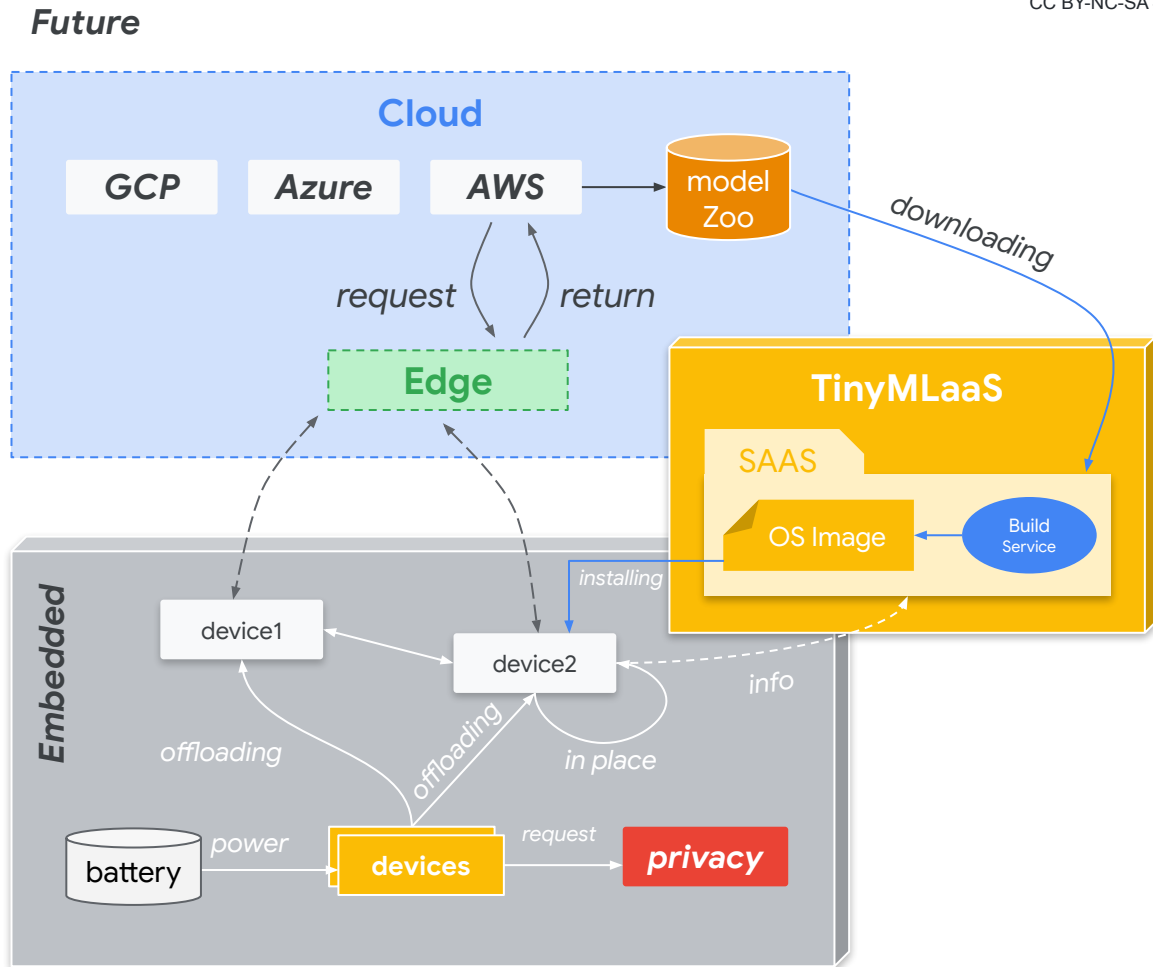


Future

TinyMLaaS

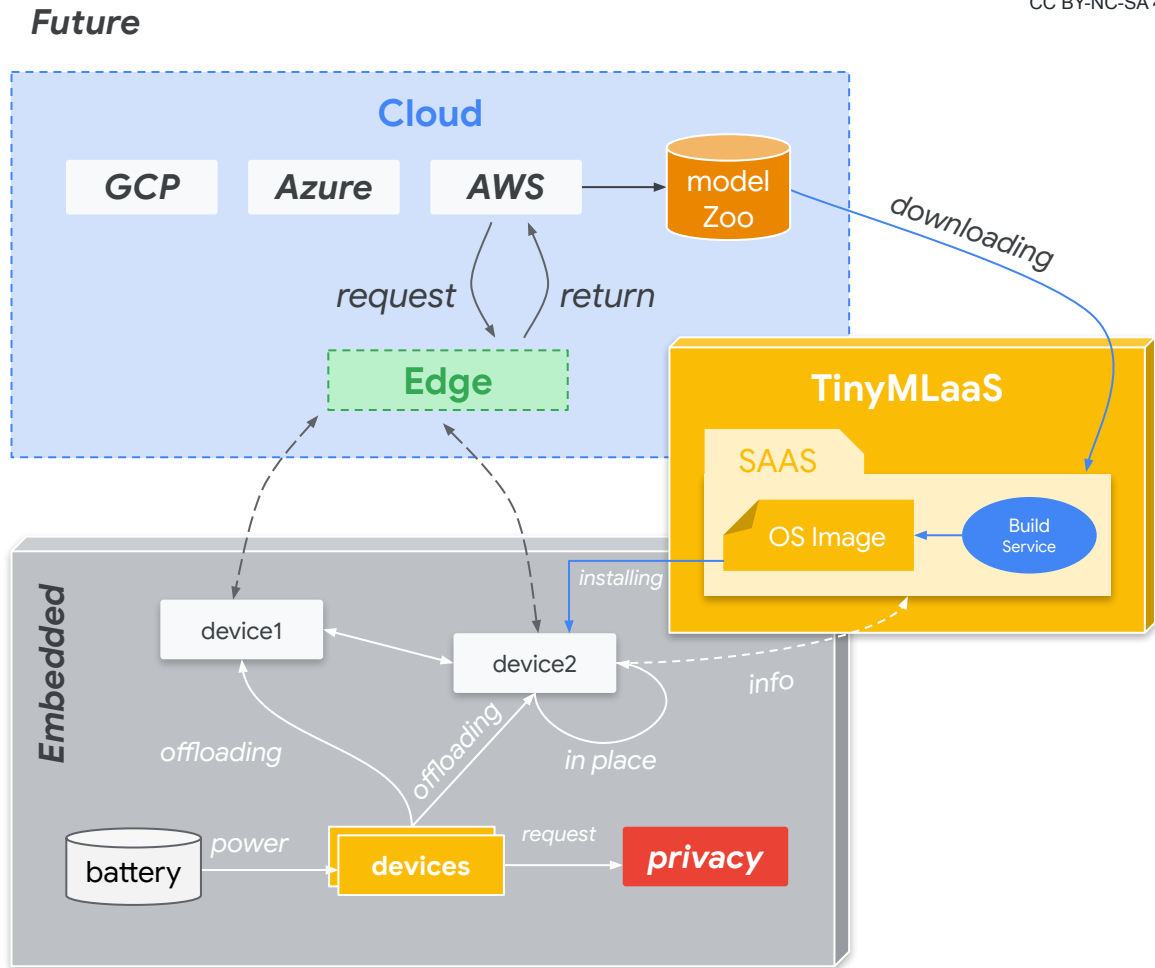


TinyMLaaS



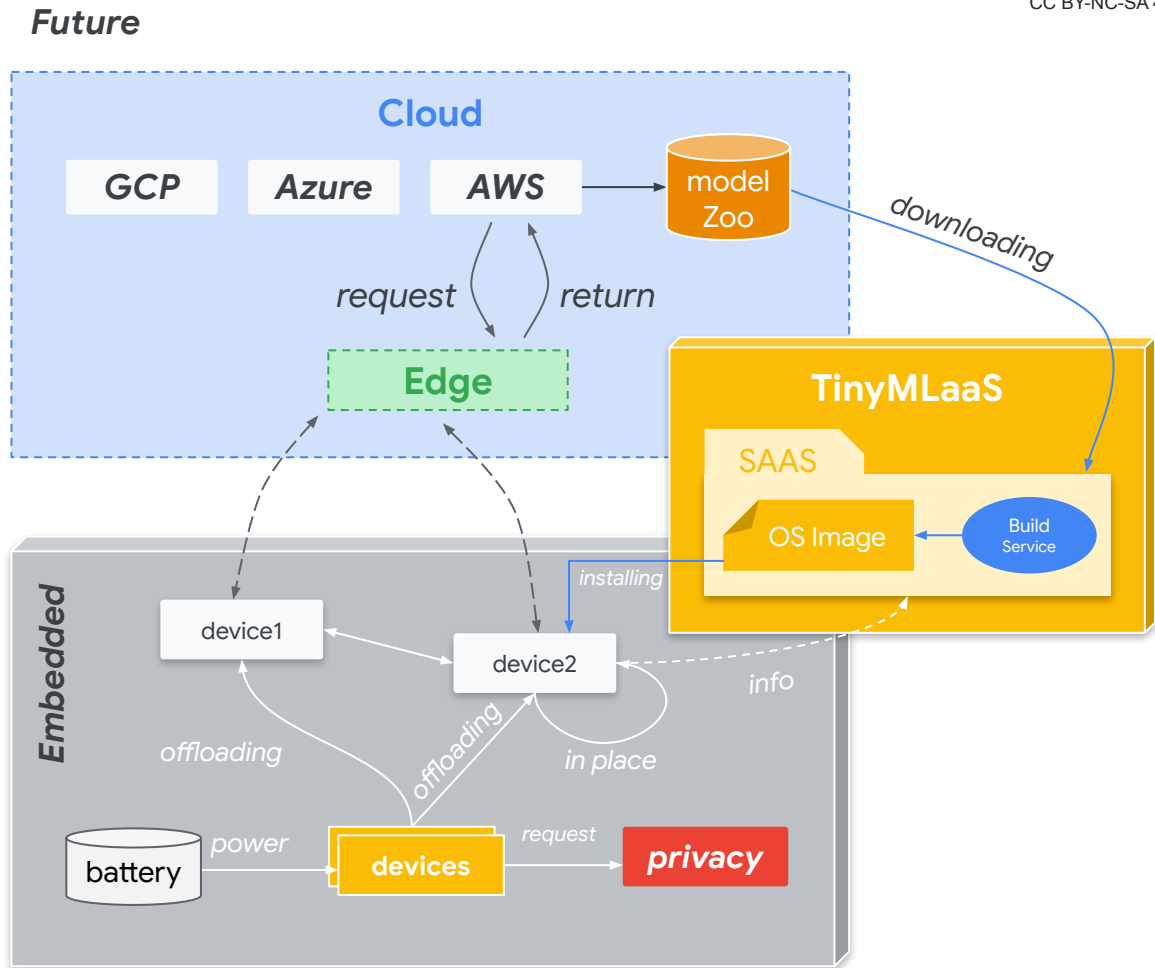
TinyMLaaS

- TinyML as a Service is a cloud or edge-based machine learning as a service
- Simplifies the deployment of ML models → abstraction

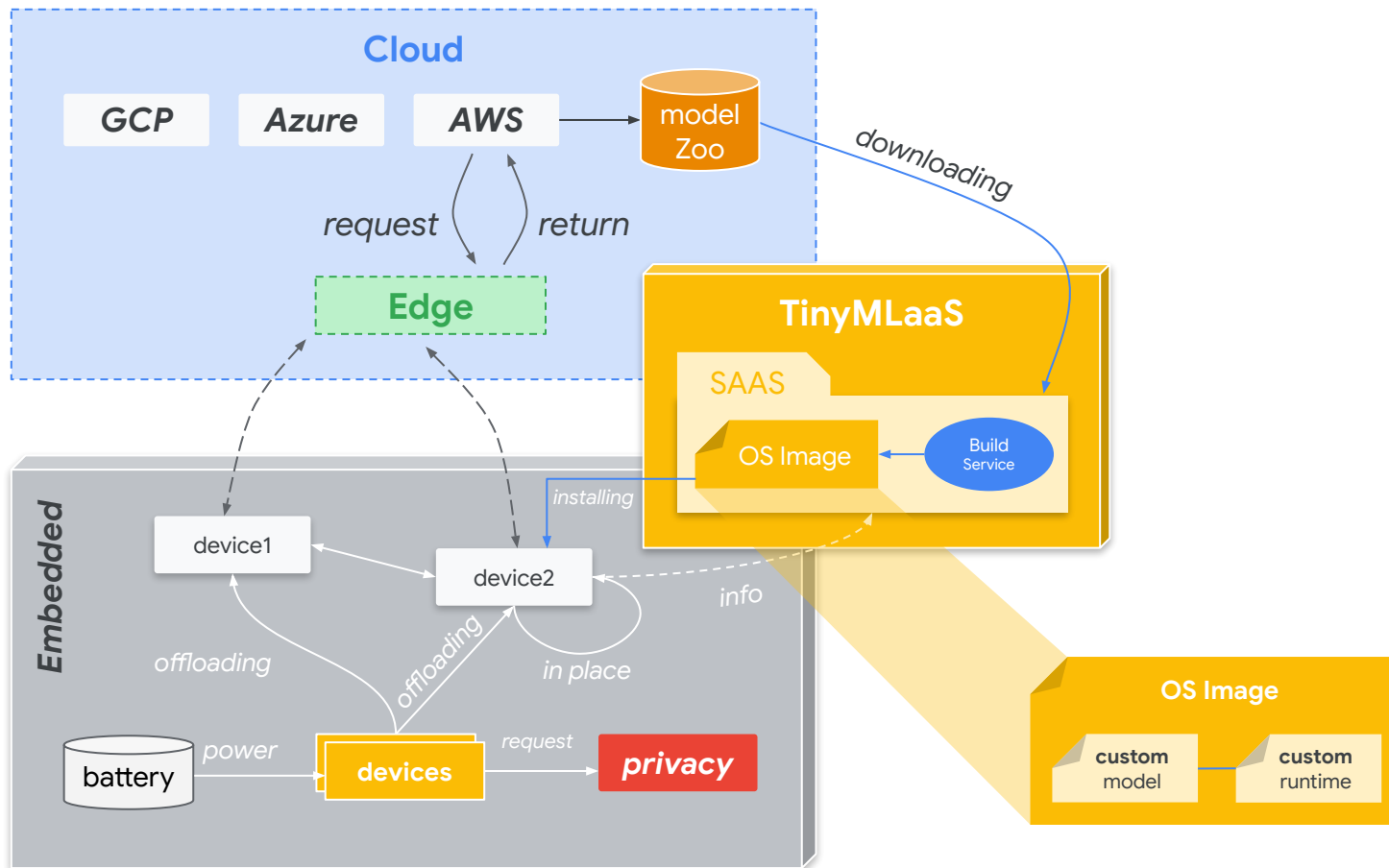


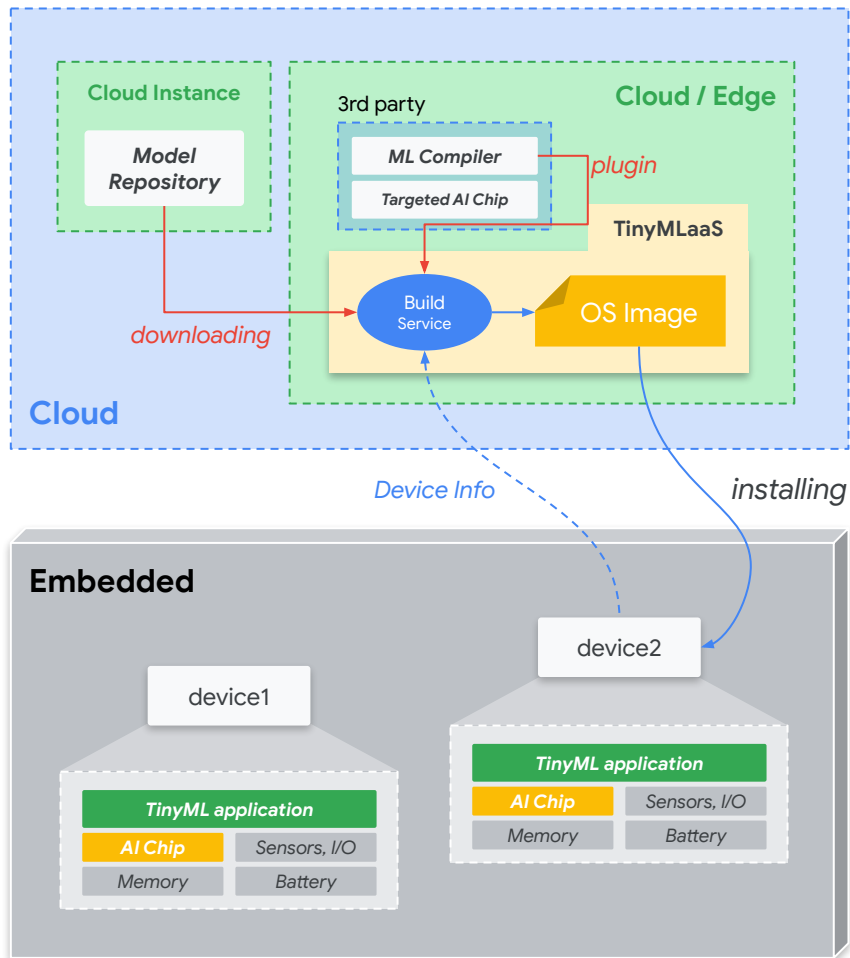
TinyMLaaS

- TinyML as a Service is a cloud or edge-based machine learning as a service
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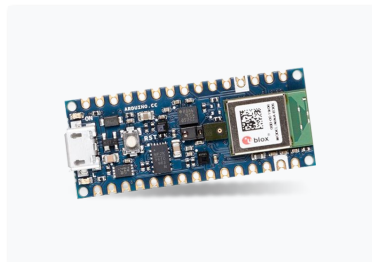
Future





TinyMLaaS

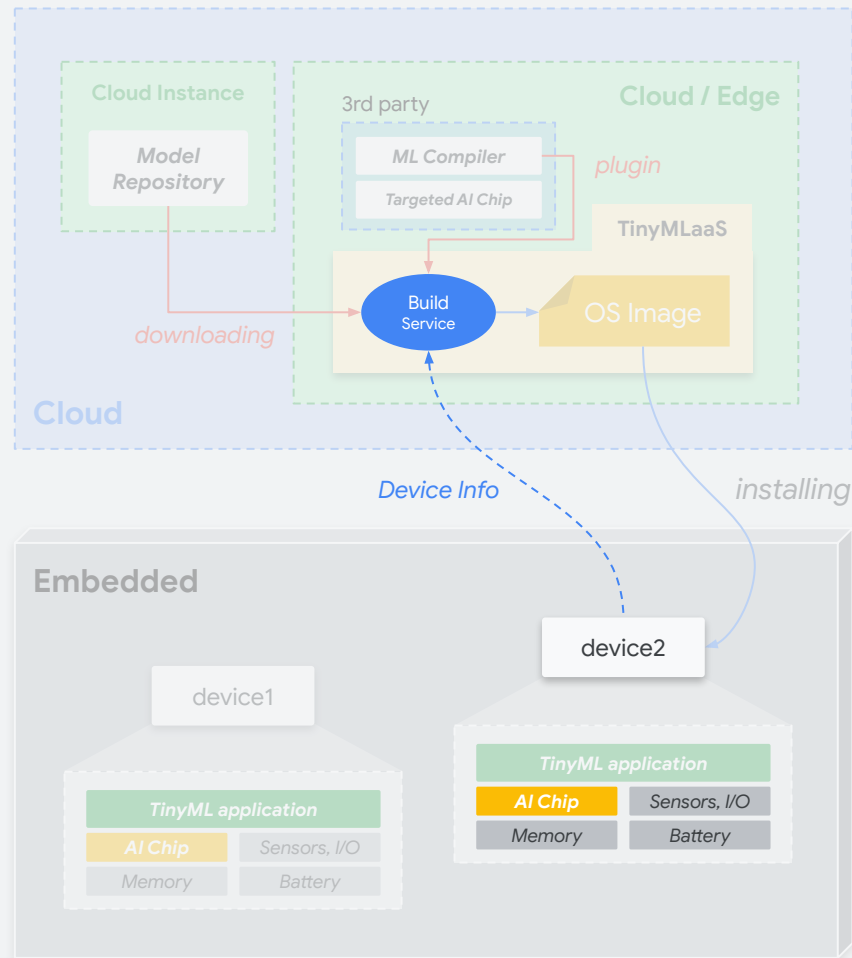
Step 1: Tailor model to device
(gather information)



256kb RAM

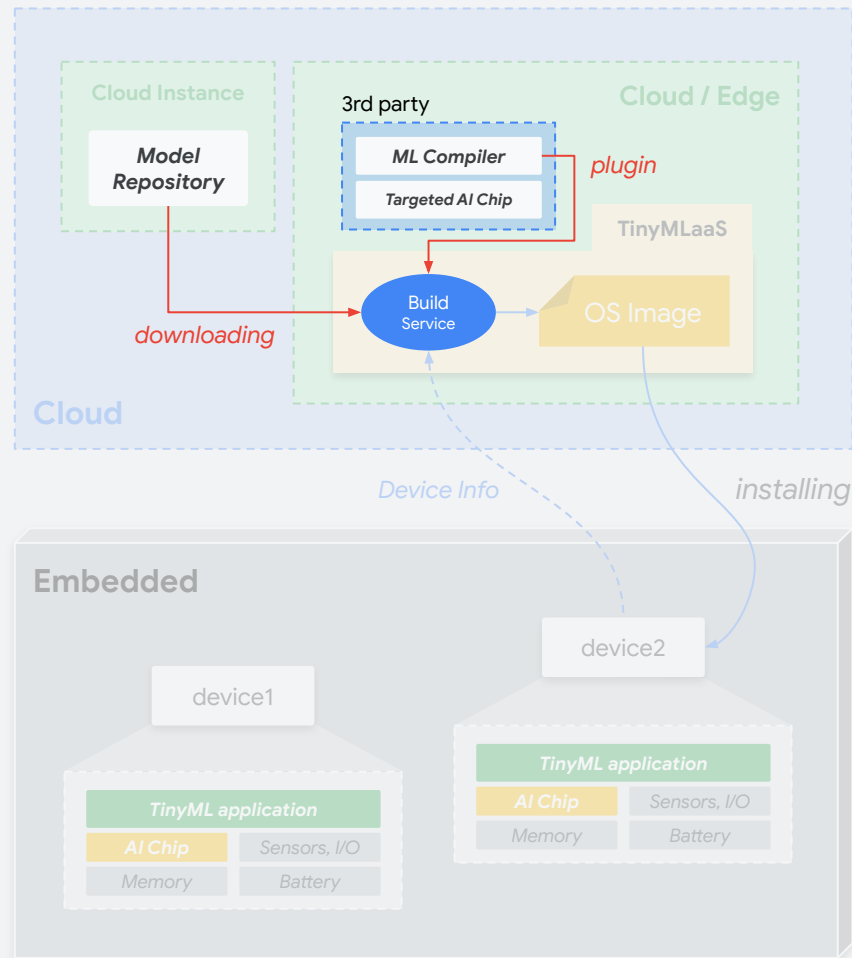
1mb Flash

Battery Powered



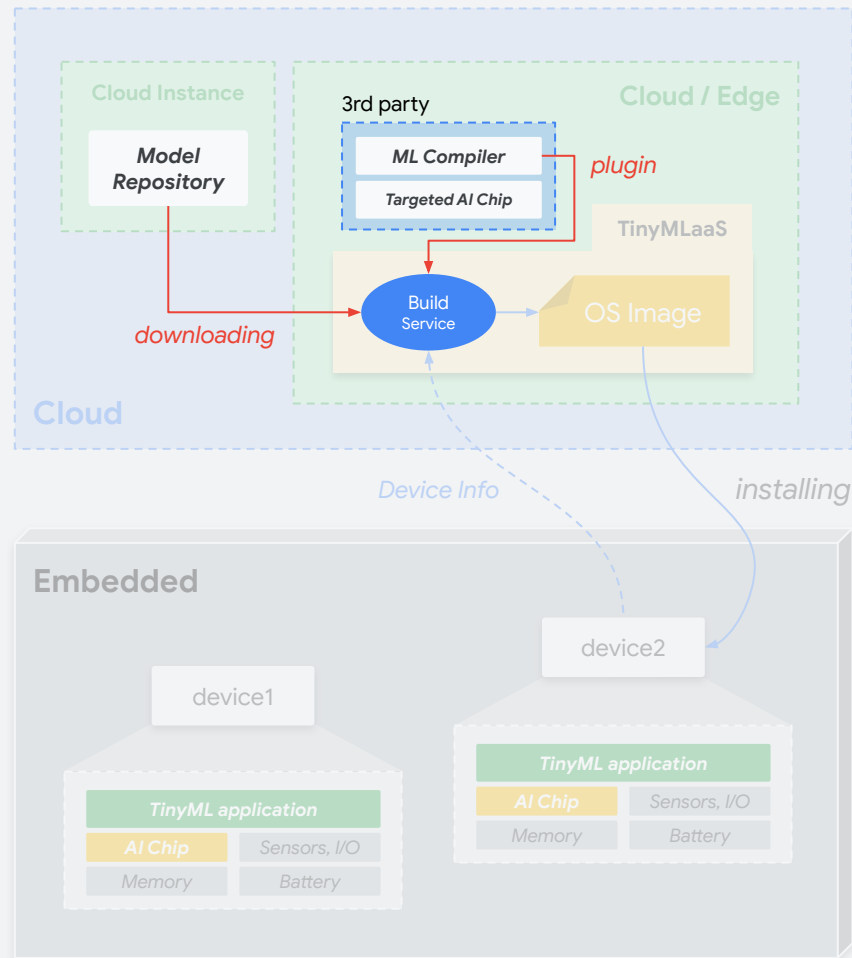
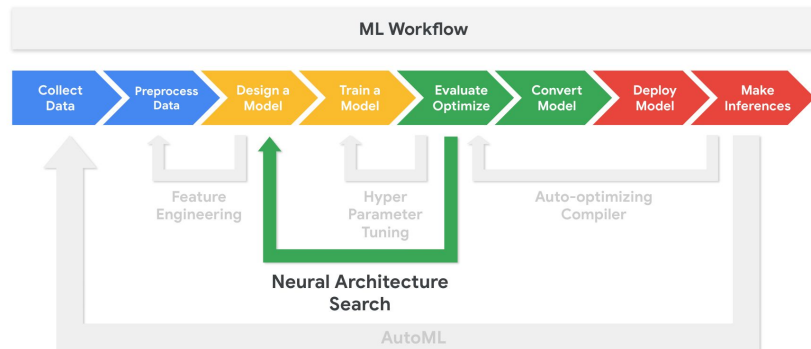
TinyMLaaS

Step 2: TinyMLaaS backend will generate the **compiled ML inference**



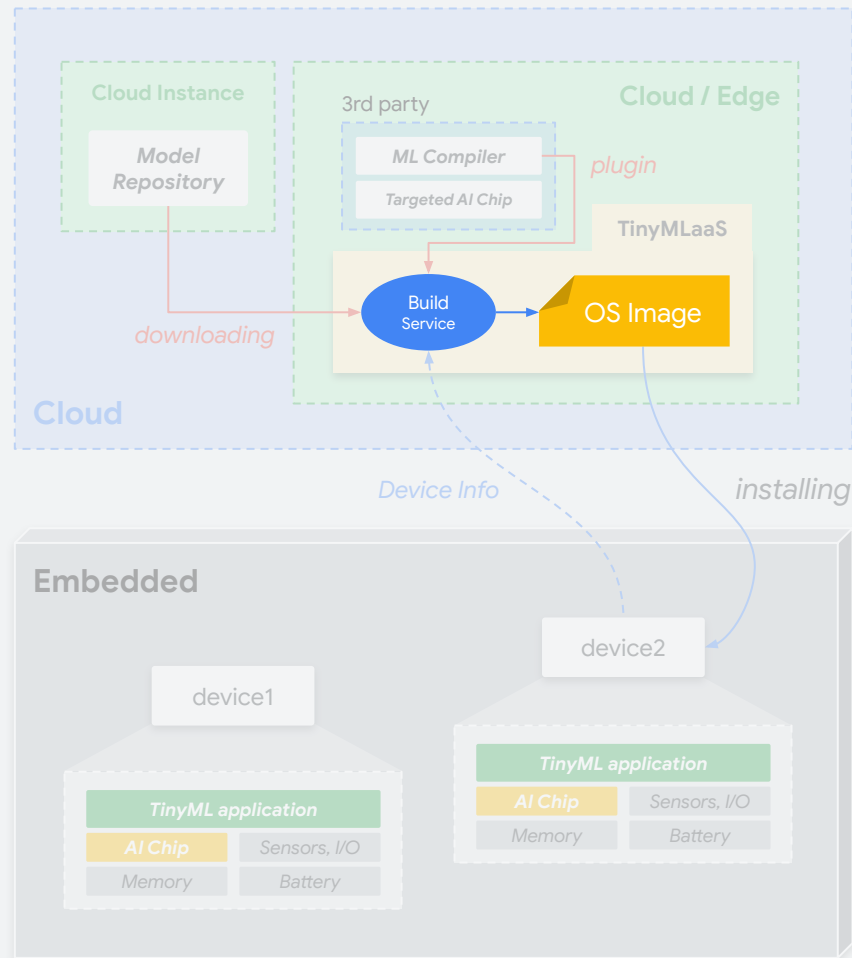
TinyMLaaS

Step 2: TinyMLaaS backend will generate the **compiled ML inference**



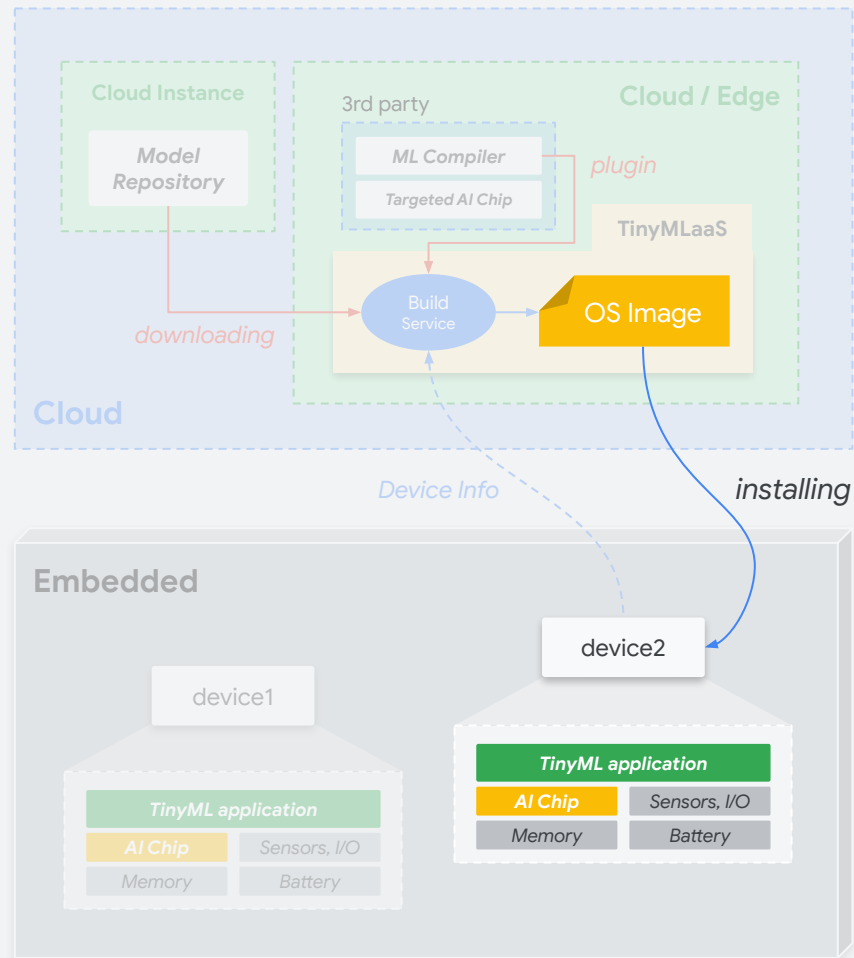
TinyMLaaS

Step 3: The generated ML inference module is then built into a **OS ready image**



TinyMLaaS

Step 4: The generated image is then finally **installed** on the tinyML device(s)



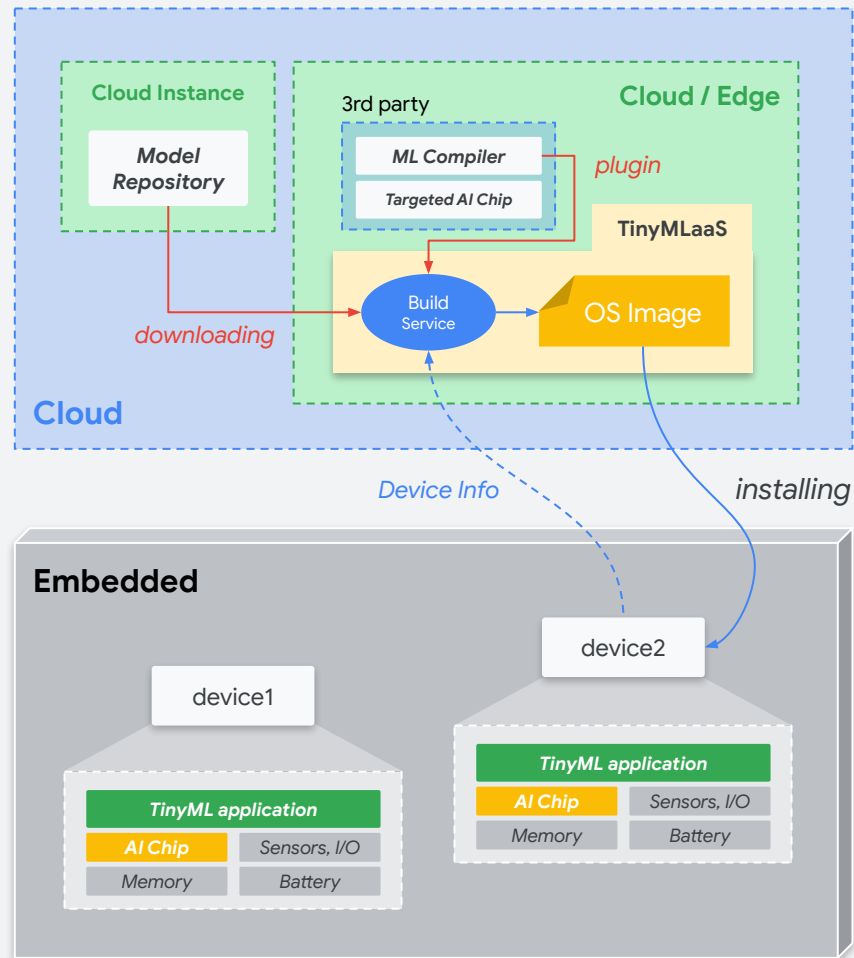
TinyMLaaS in 4 Simple Steps

1. Gather Device Information

2. Select Compiler, Generate Inference Module

3. Create OS-Ready Image

4. Install on device



TinyMLaaS

- TinyML as a Service is a cloud or edge-based machine learning as a service
- Simplifies the deployment of ML models → abstraction

