



Microservices workshop














Somkiat

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Somkiat Puisungnoen

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Intro

Software Craftsmanship



Software Practitioner at สยามชำนาญกิจ พ.ศ. 2556



Agile Practitioner and Technical at SPRINT3r


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Somkiat Puisungnoen

15 mins · Bangkok ·

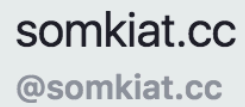

Java and Bigdata



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Microservices

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Photos



+ Add a Button

Agenda

Deploy services with NodeJS
Building images with Docker
Manage containers with docker-compose
Develop deployment pipeline of service



Agenda

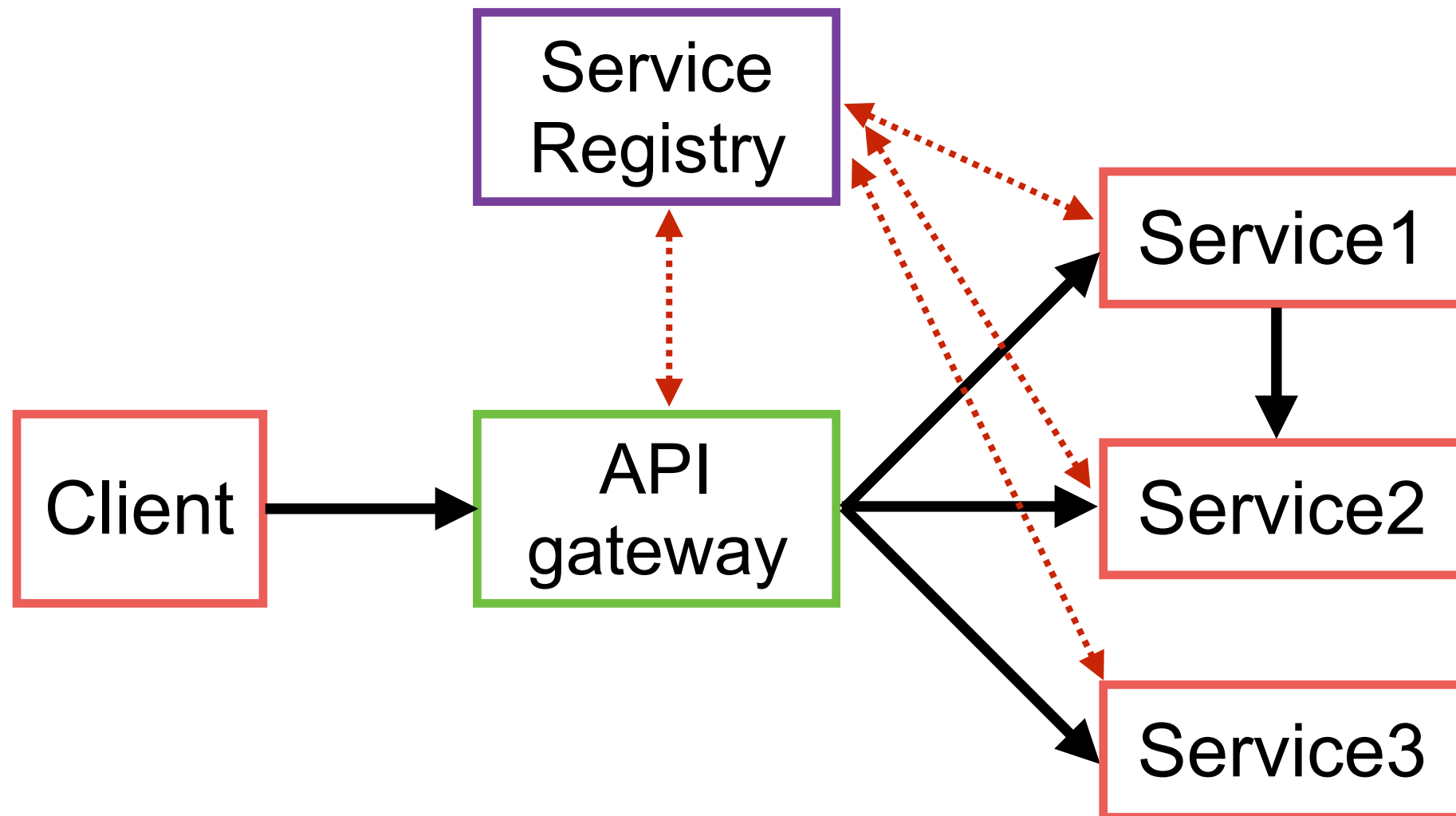
Orchestrate containers with Kubernetes
Rolling update with Kubernetes
Auto-scaling with Kubernetes
Demo deployment with Istio



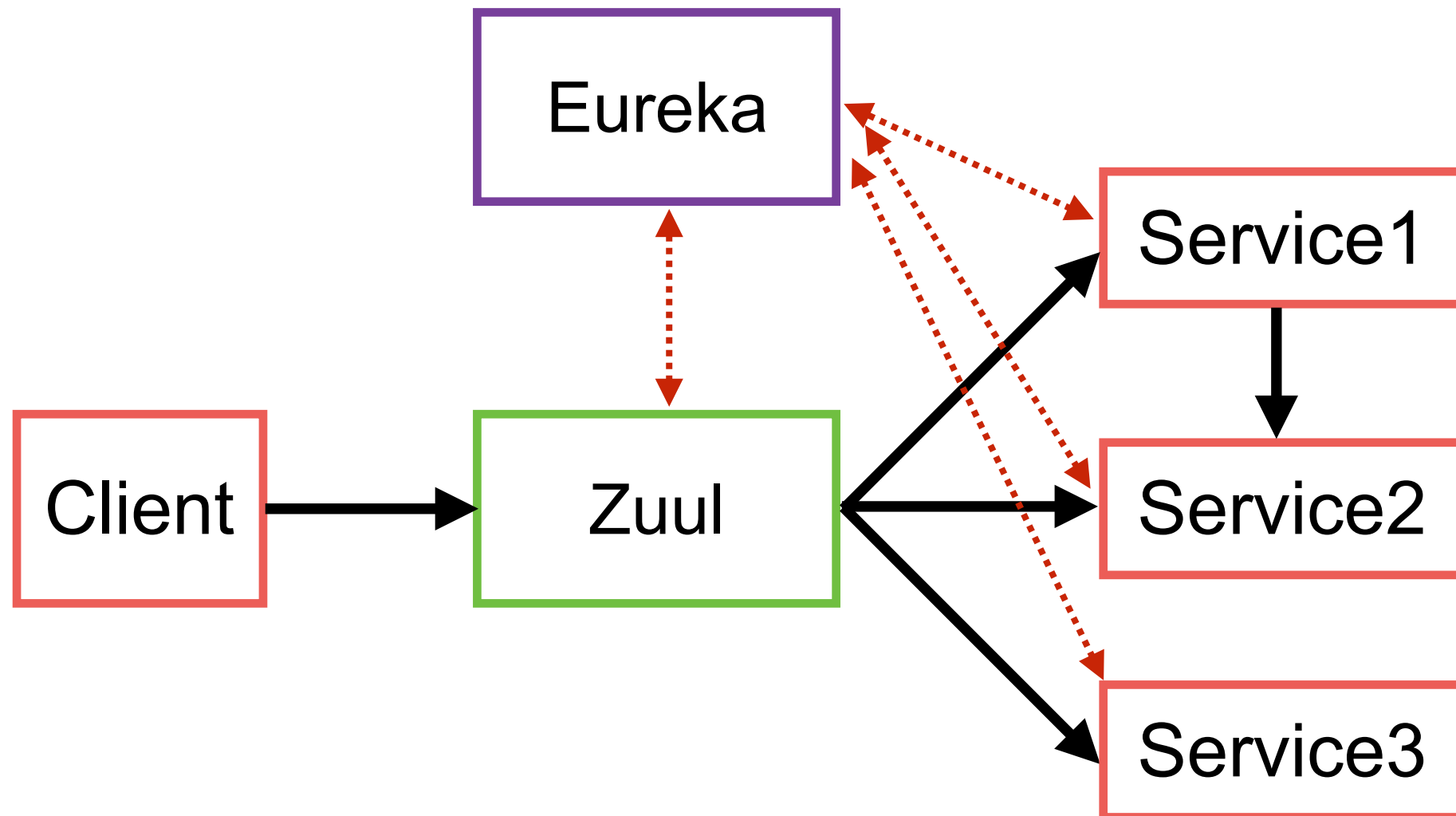
Deploy Microservice



Original Architecture



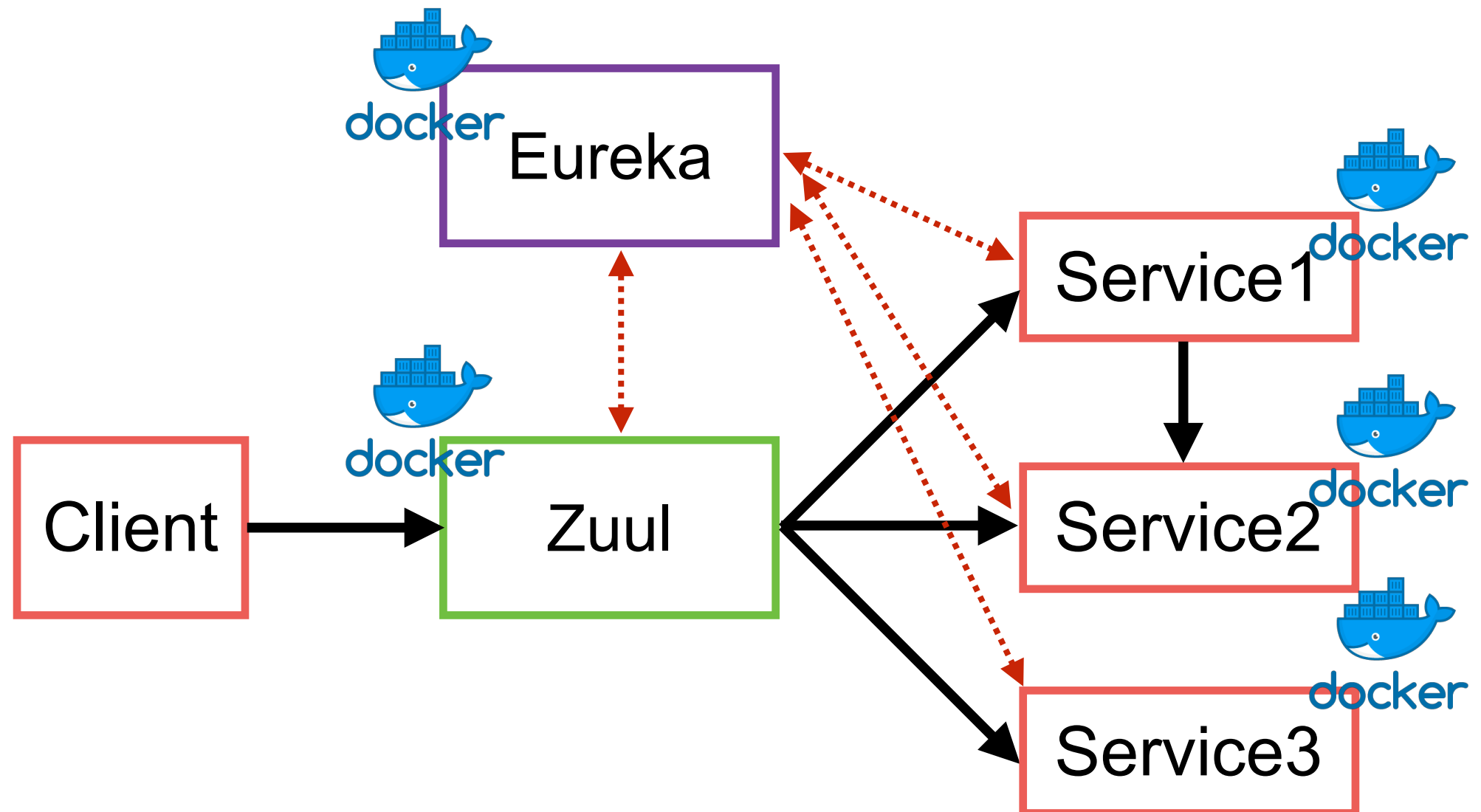
Original Architecture



How to deploy with Docker ?

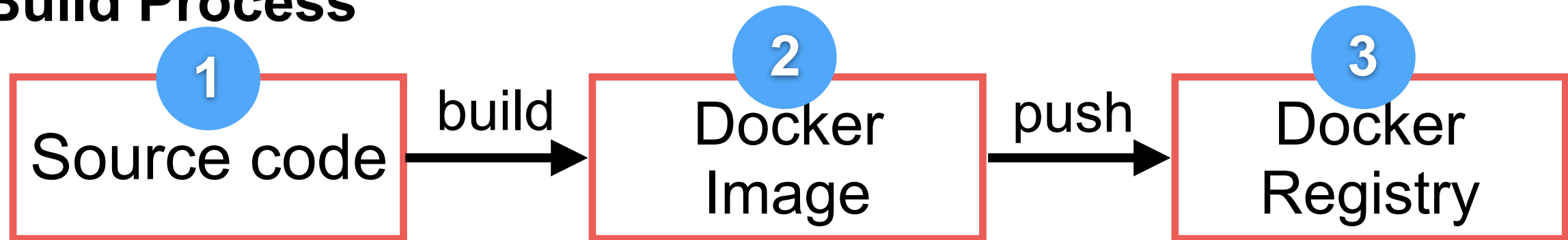


Deploy with Docker

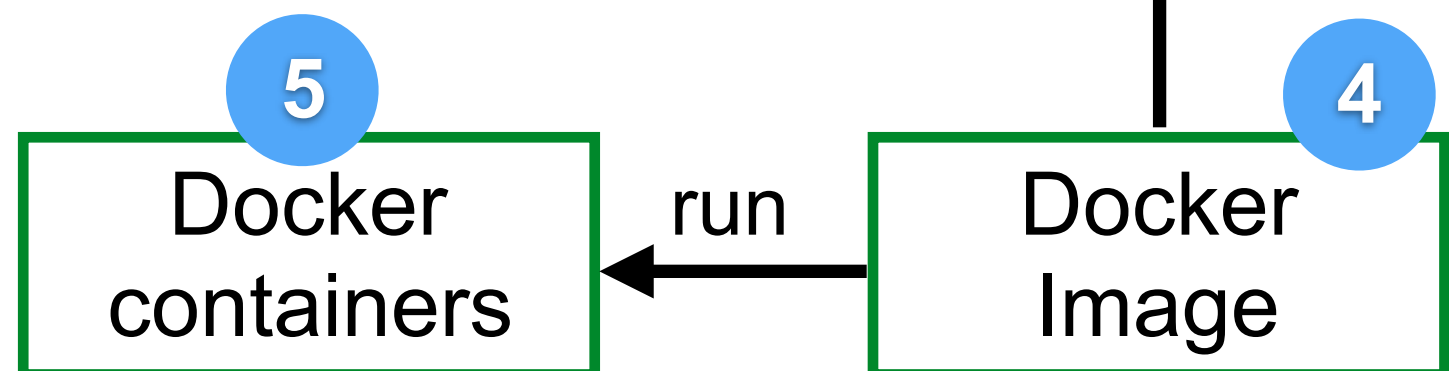


Process to build and deploy

Build Process



Deploy Process



Step 1 :: Organize source code



Step 1 :: Organize source code ?

Single source code repository

Single source code + subdirectory

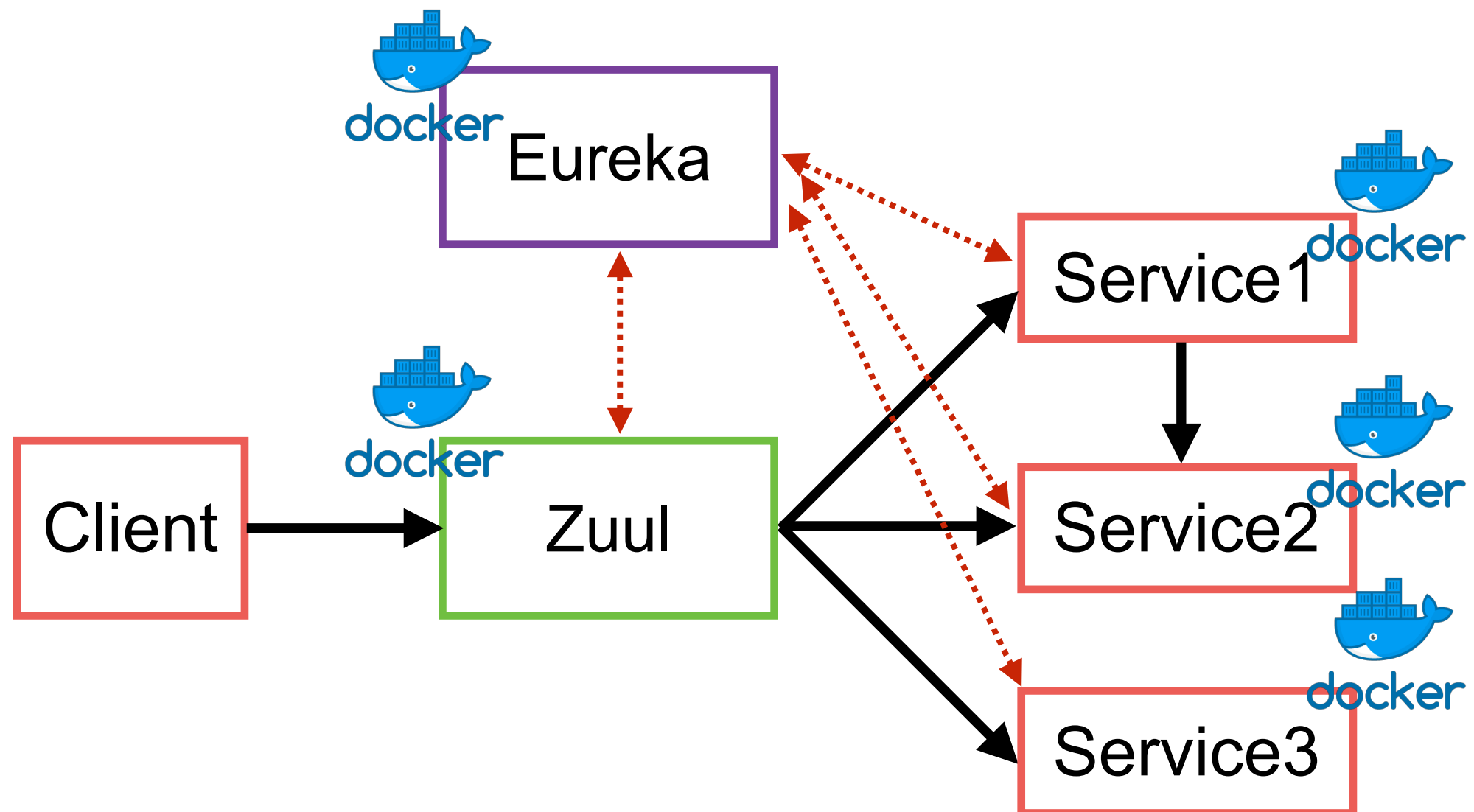
Source code repository per service



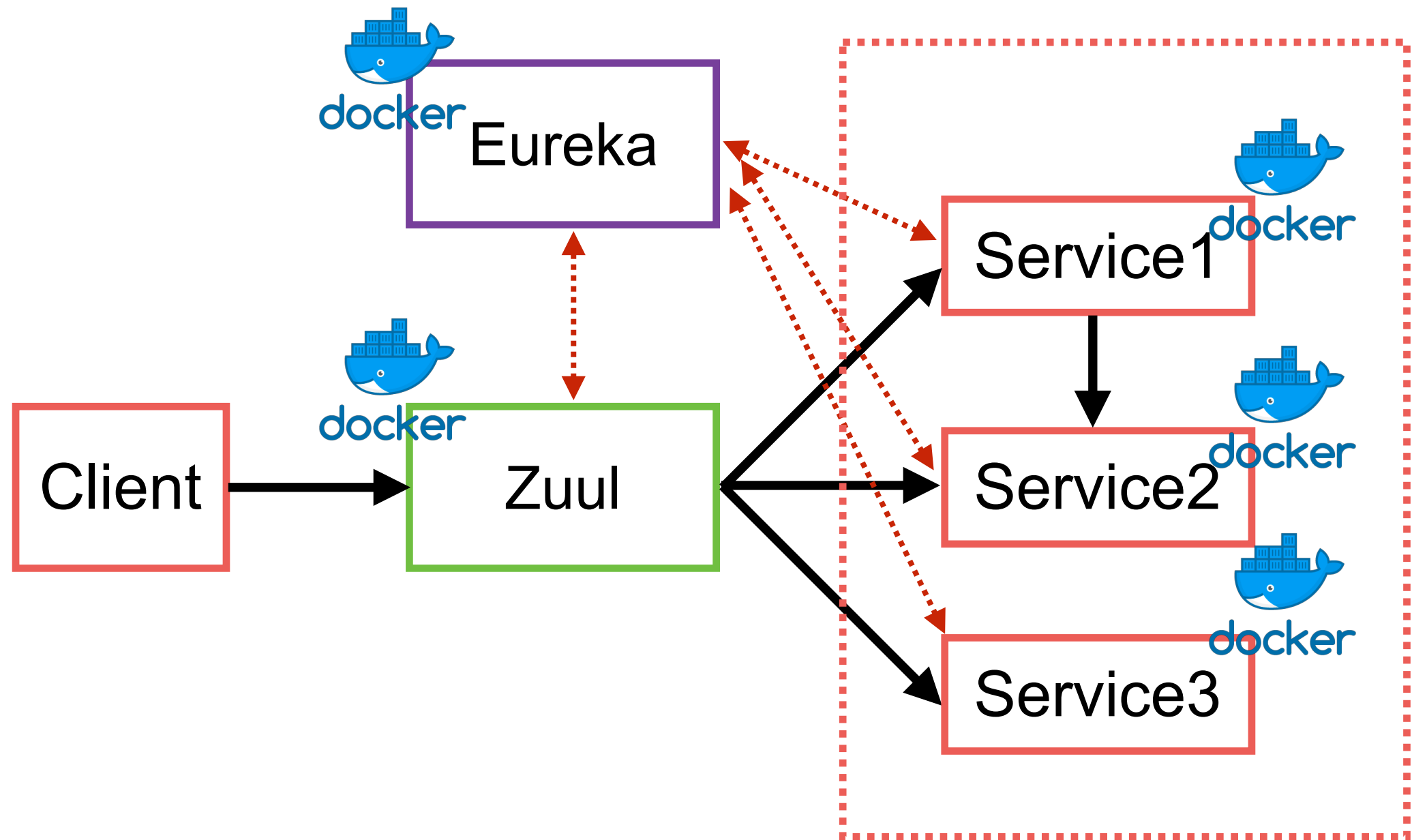
Step 2 :: Build Docker Image



Step 2 :: Build Docker Image



Step 2 :: Build Docker Image



Build image of services

Dockerfile

Docker command

Docker compose



Step 3 :: Keep Docker Image into Docker Registry



Keep Docker Image

Docker registry
Default at Docker Hub



Format name of Docker Image

Name	Meaning
hello-world	Official image at Docker Hub
somkiat/hello-world	Community/User image at Docker Hub
<u>http://ip:port/hello-world</u>	Custom Docker Registry Server to keep image



Step 4 :: Deploy



Deploy services

Docker command

Docker compose



Step 5 :: Scale services



Scale services

