

Day 1 Windows Subsystem for Linux



Git repository



VS Code



Ubuntu on WSL



OpenJDK



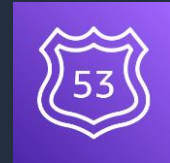
docker



minikube



AWS Cloud



Amazon Route 53



AWS Certificate
Manager (ACM)

Day 2 Dockerize



Git repository



VS Code



Ubuntu on WSL



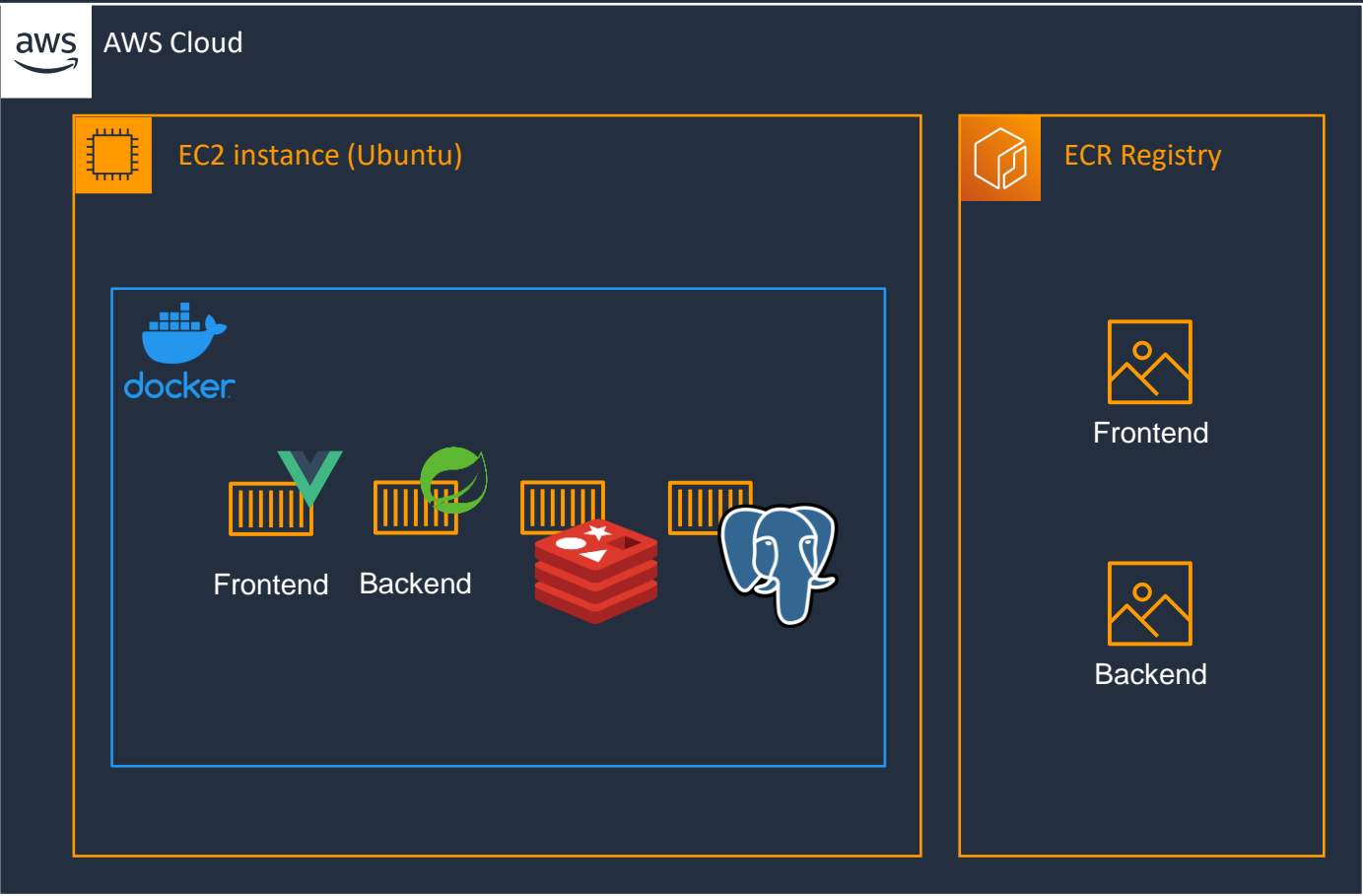
Day 3 Cloud Deployment



Git repository



VS Code



Day 3 Kubernetes



Git repository



VS Code



Ubuntu on WSL

 Scaffold

 node JS





 spring


 OpenJDK


 Gradle


 jib


 Frontend

 Backend

 pod

 pod

 pod

 pod



Day 3 Ingress



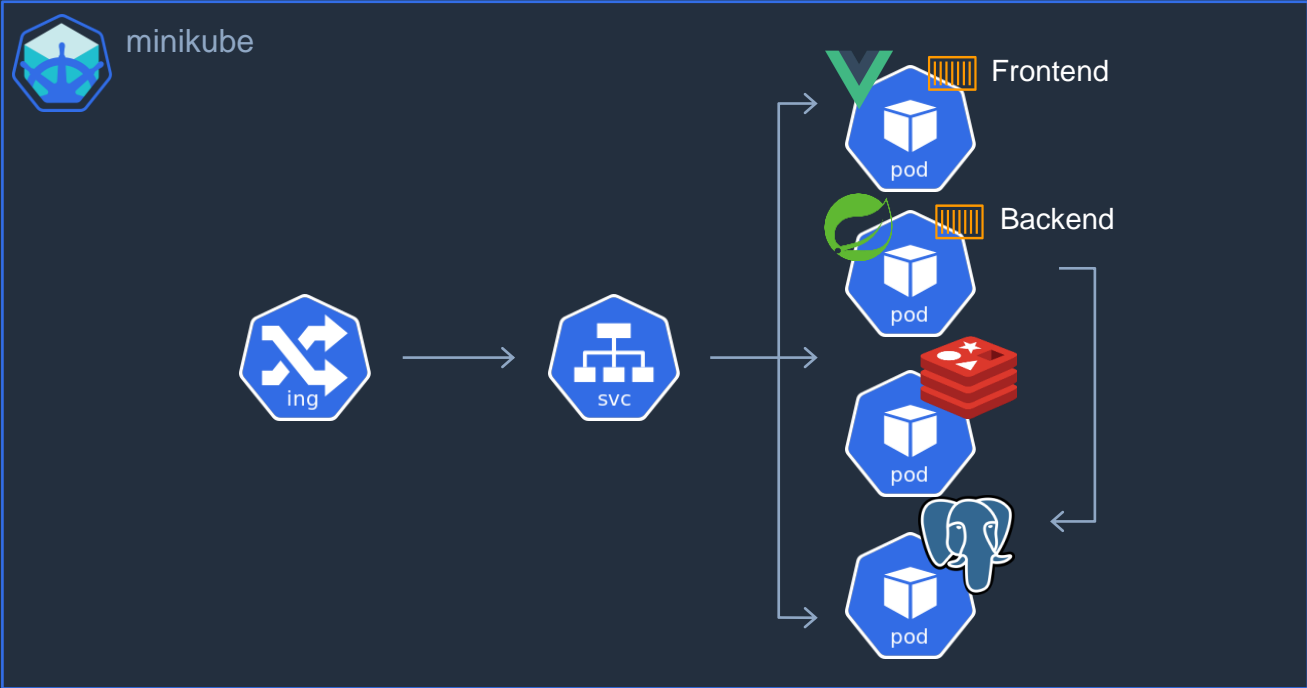
Git repository



VS Code



Ubuntu on WSL



Day 5 Microservices



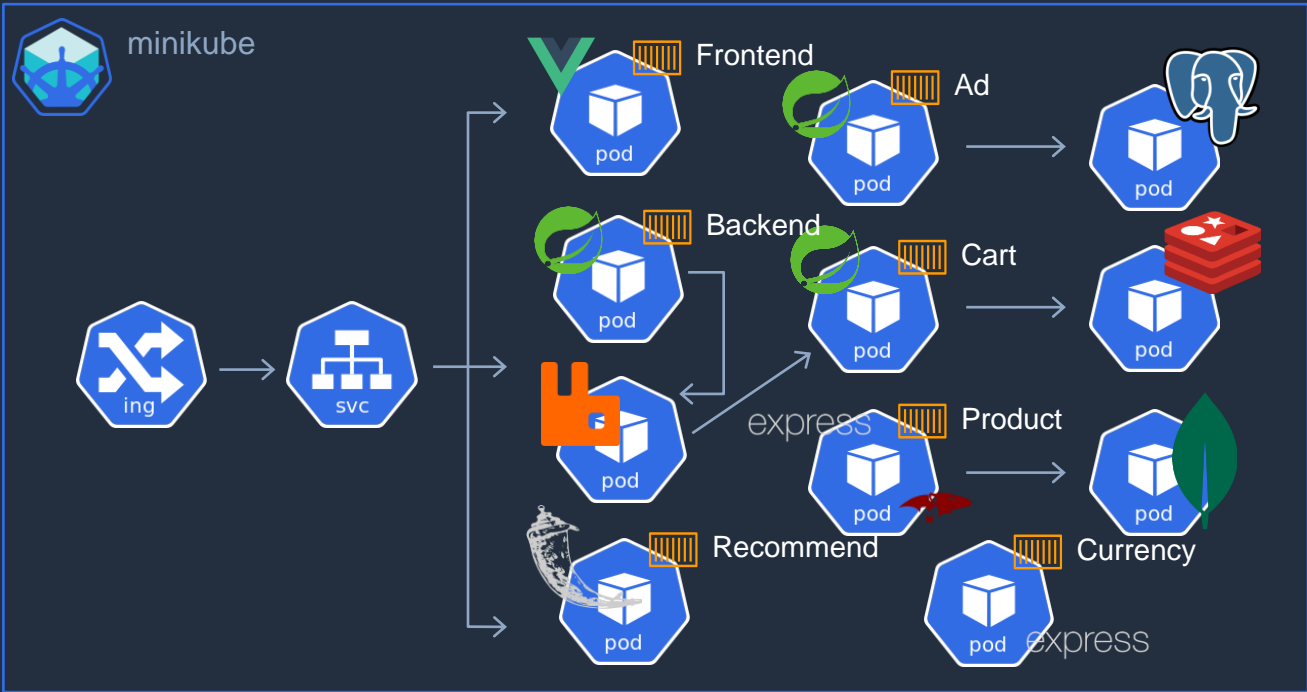
Git repository



VS Code



Ubuntu on WSL



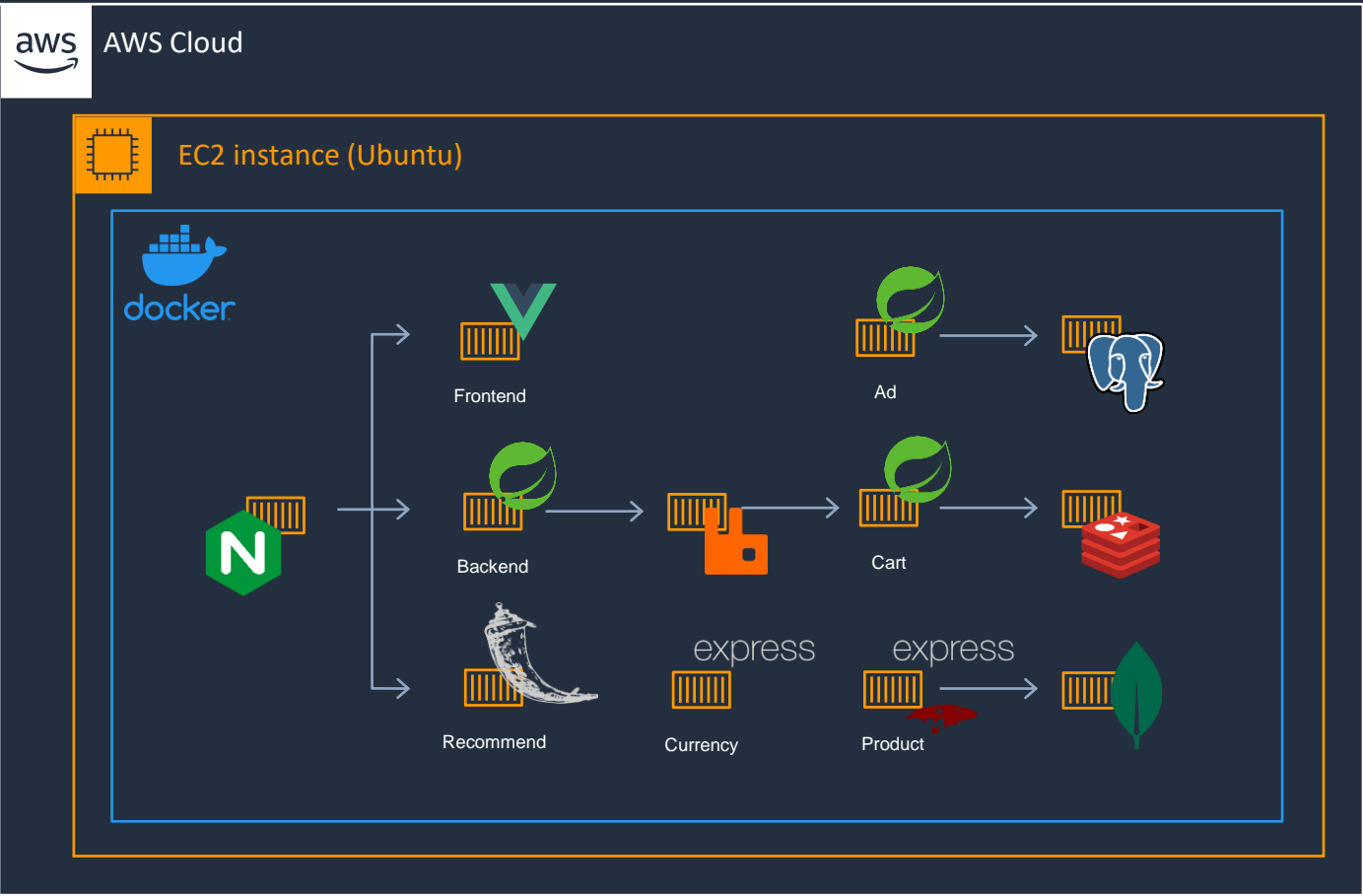
Day 5 Nginx Reverse Proxy



Git repository



VS Code



Day 6 Management Cluster (eshop-mgmt-laC)



Ubuntu on WSL



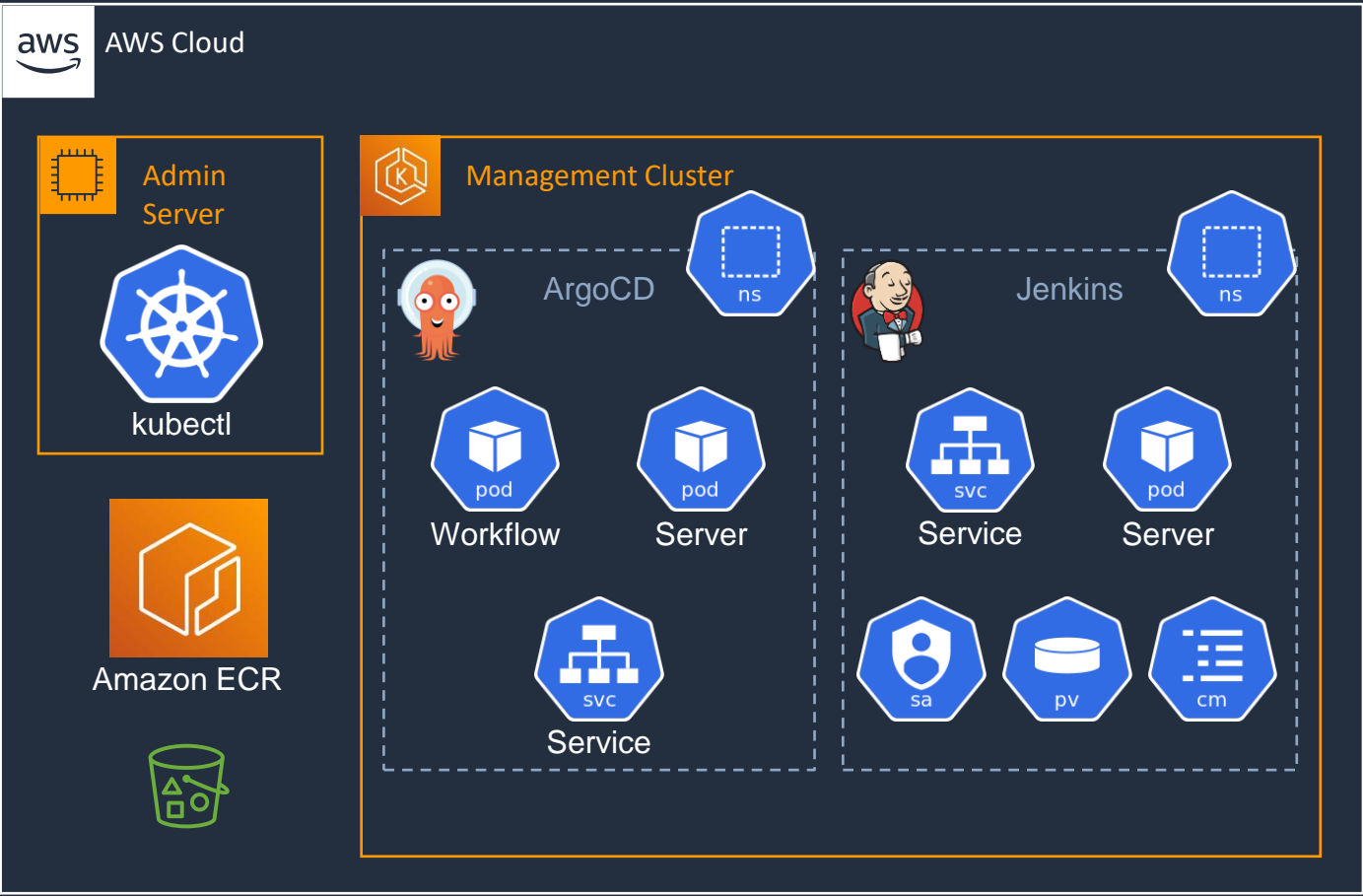
HashiCorp
Terraform



Git repository



VS Code



Day 6 CI Pipeline (eshop-MSA)



AWS Cloud



Git repository



VS Code



Management Cluster



Jenkins



Service



Server



sa



pv



cm



pod



pod



ns



ECR Registry



Frontend



Currency



Product



Recommend



Backend



Ad



Cart



Day 7 Service Cluster (eshop-service-lac)



Ubuntu on WSL



HashiCorp
Terraform



Git repository



VS Code



AWS Cloud



Admin Server



kubectl



Management Cluster



Jenkins



Server



ArgoCD



eshop-istio



eshop-
MSA-istio



Service Cluster



Istio system



Pilot



Citad



Galley



eShop



po

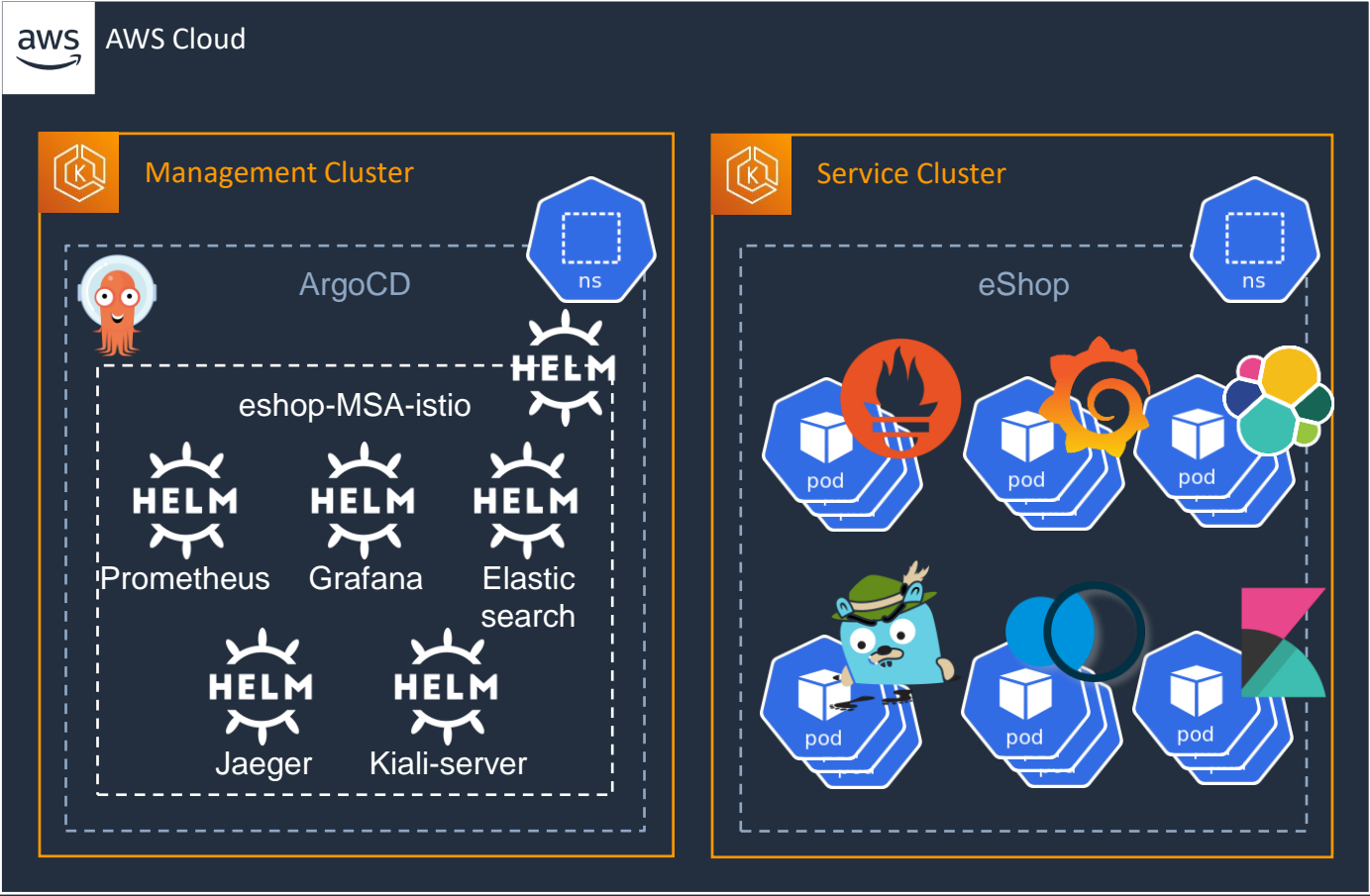


po



ns

Day 8 Observability (eshop-MSA-istio)



Git repository




Day 9 Distributed Tracing (Ad Service)




Git repository




AWS Cloud




Admin Server




kubectl




ECR Registry




Ad




Management Cluster




Jenkins




pod




Jib




ArgoCD




eshop-MSA-istio




ns




ns



Service Cluster




eShop




pod



Ad



ns



pod



pod

Day 9 Distributed Tracing (Recommend Service)



Ubuntu on WSL



Jaeger Client



Git repository



VS Code



AWS Cloud



Admin Server



kubectl



ECR Registry



Frontend



Management Cluster



Jenkins



pod



ns



ArgoCD



eshop-MSA-istio



ns



Service Cluster

eShop



Recommend



pod



pod



pod



ns

Day 9 Canary Deployments using Istio




Git repository




AWS Cloud


**Admin Server**



kubectrl


**ECR Registry**



Frontend


**Management Cluster**



Jenkins


pod


ns


ArgoCD


eshop-MSA-istio


ns

**Service Cluster**


eShop


ns


Virtual Service


V1


V2


pod


pod


pod

Day 10 Circuit Breaking (Recommend Service)



Git repository



AWS Cloud

