

Building globally scalable and resilient services with Anthos Service Mesh



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Intermediate

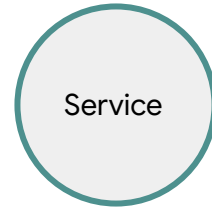
Build globally scalable services



Needs of a service

Resilience

Scale



Service

Policy / Security

Manageability

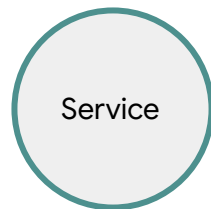
Needs of a service

Resilience

...against infrastructure, machine and human errors

Scale

...run in multiple clusters, zones, regions



Service

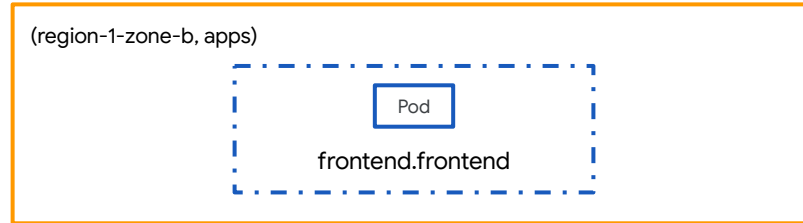
Policy / Security

...encrypt all communication, adhere to policies

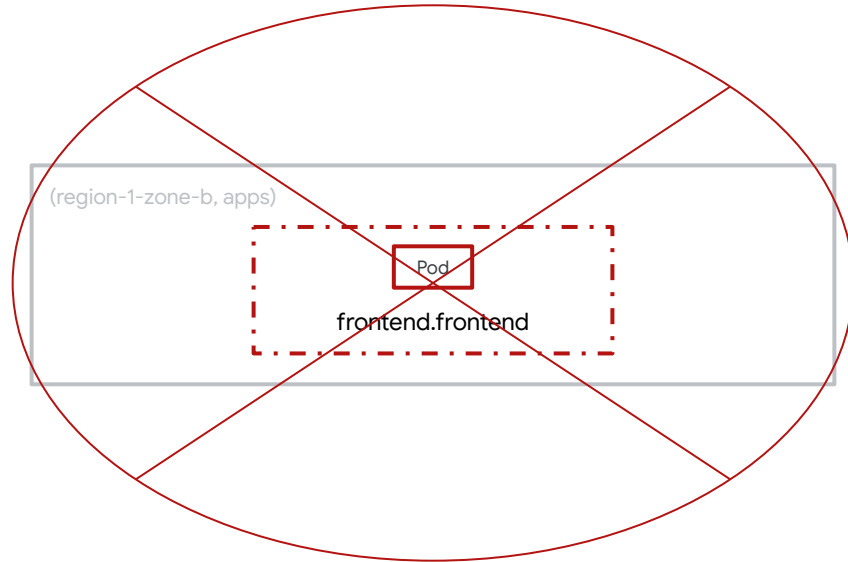
Manageability

...observe, deliver traffic to the right instance and reliably rollout new versions

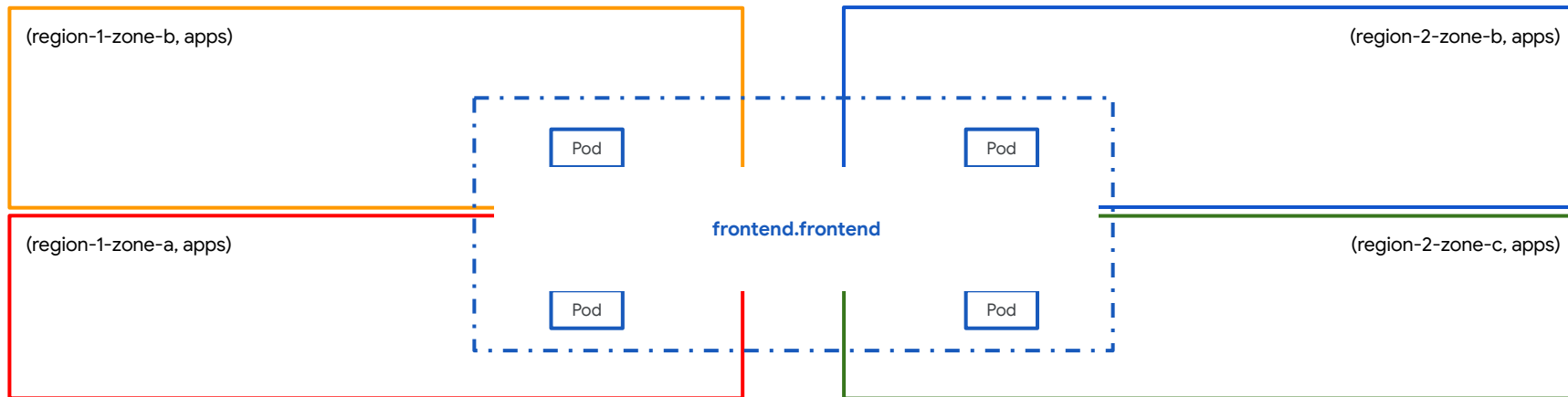
Single cluster



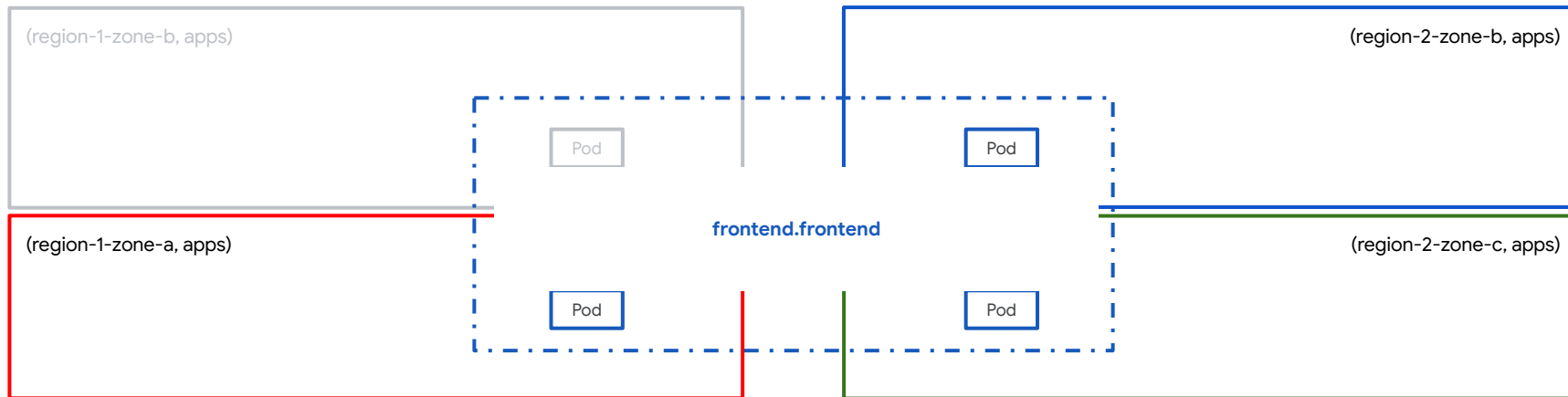
Single cluster



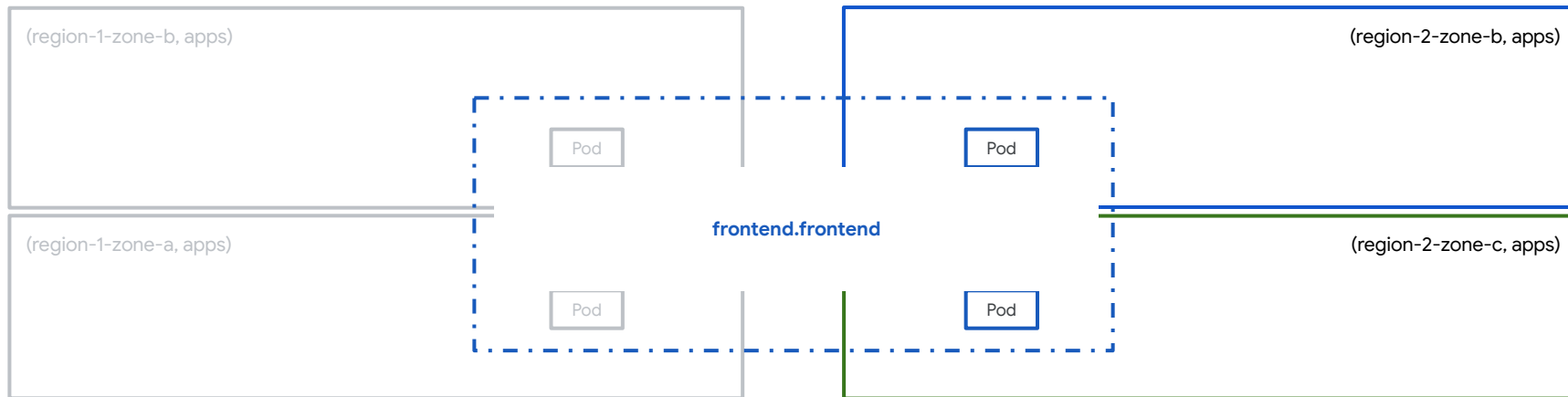
Distributed services



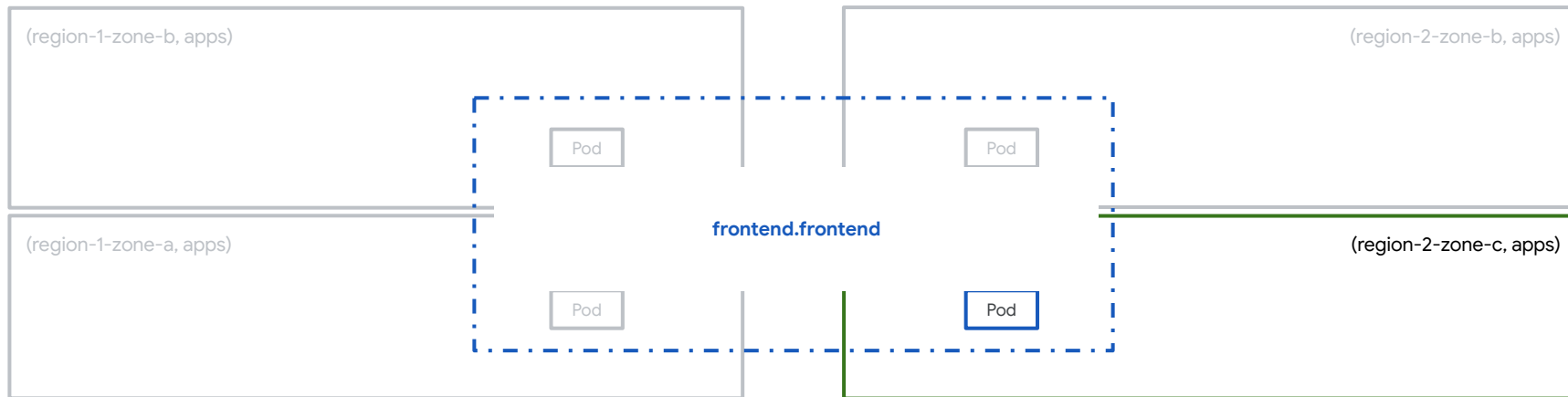
Distributed services



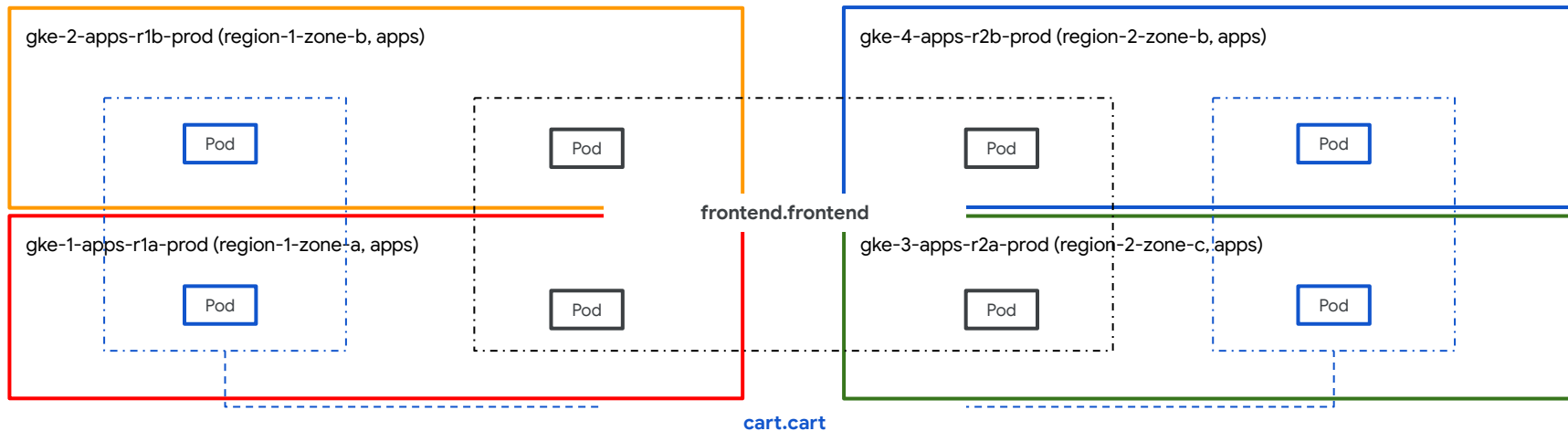
Distributed services



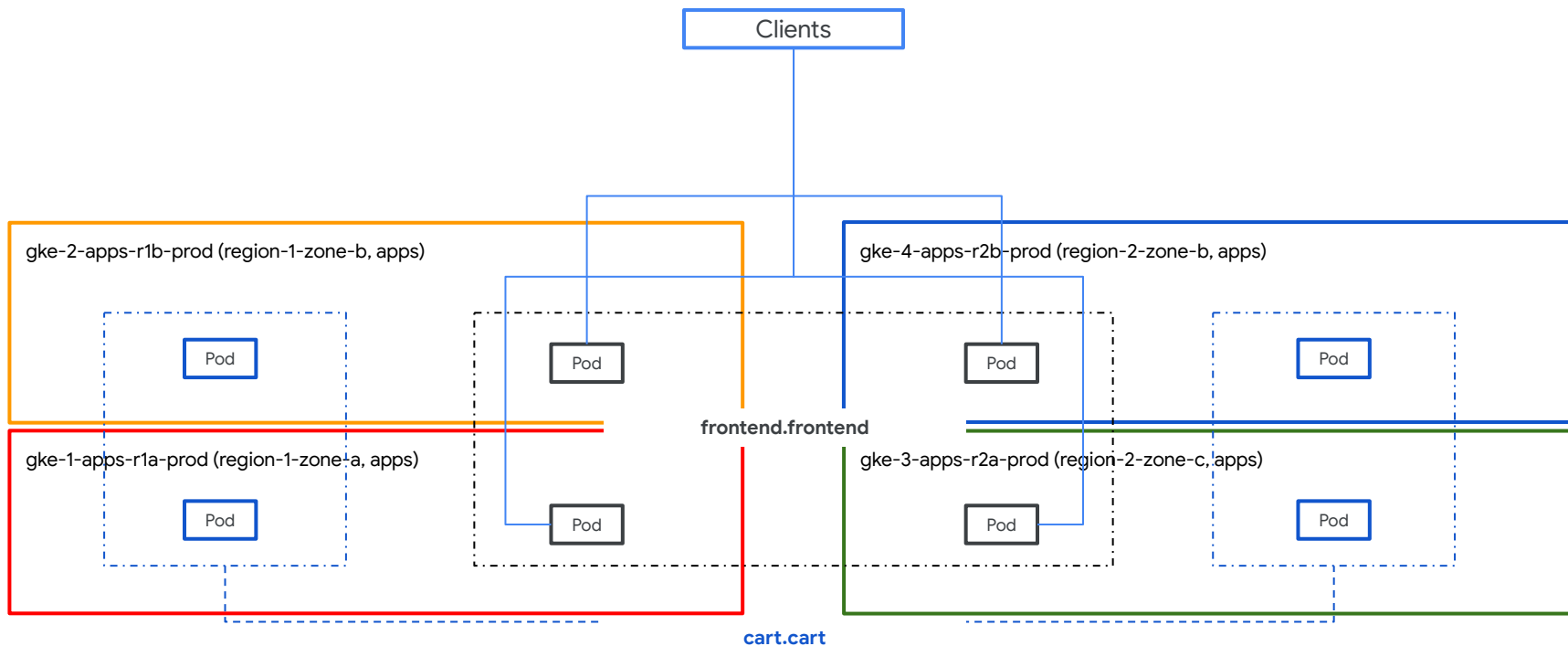
Distributed services



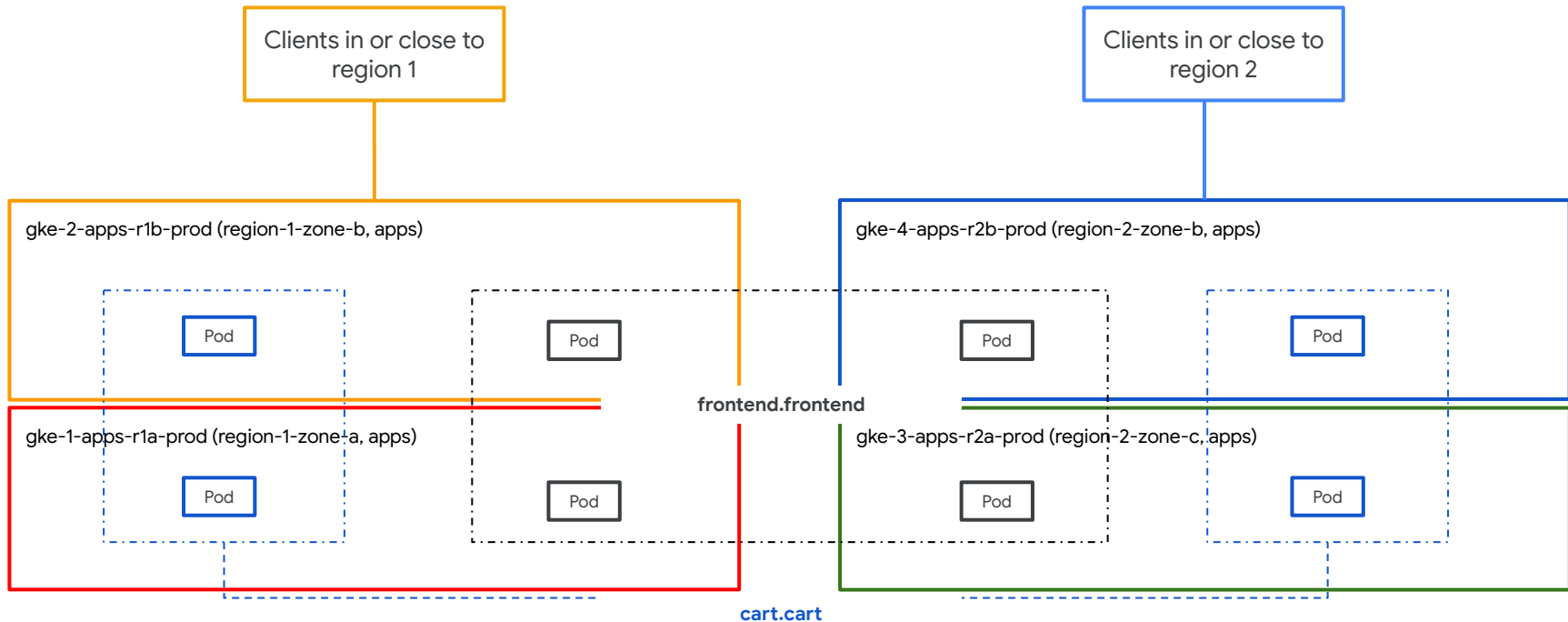
Service discovery



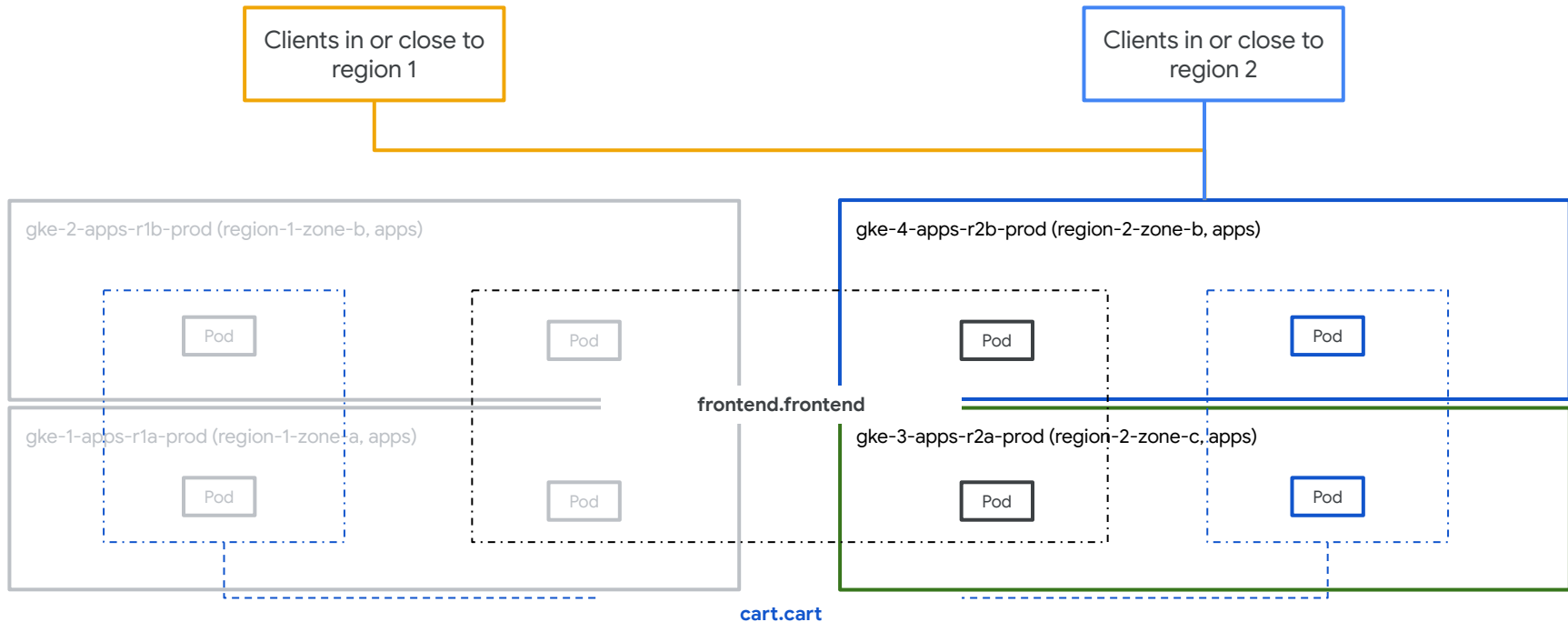
Multicloud Ingress



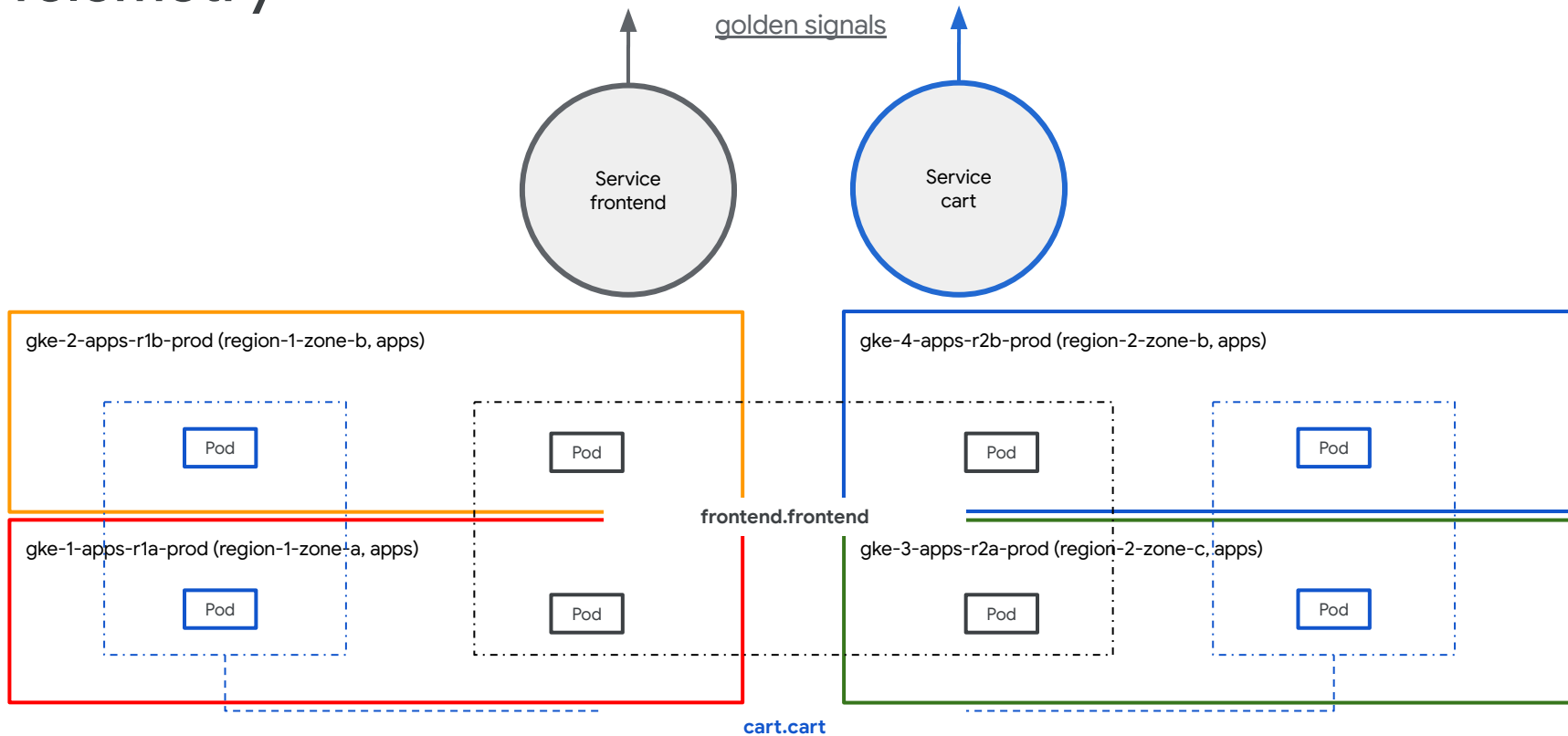
Locality considerations



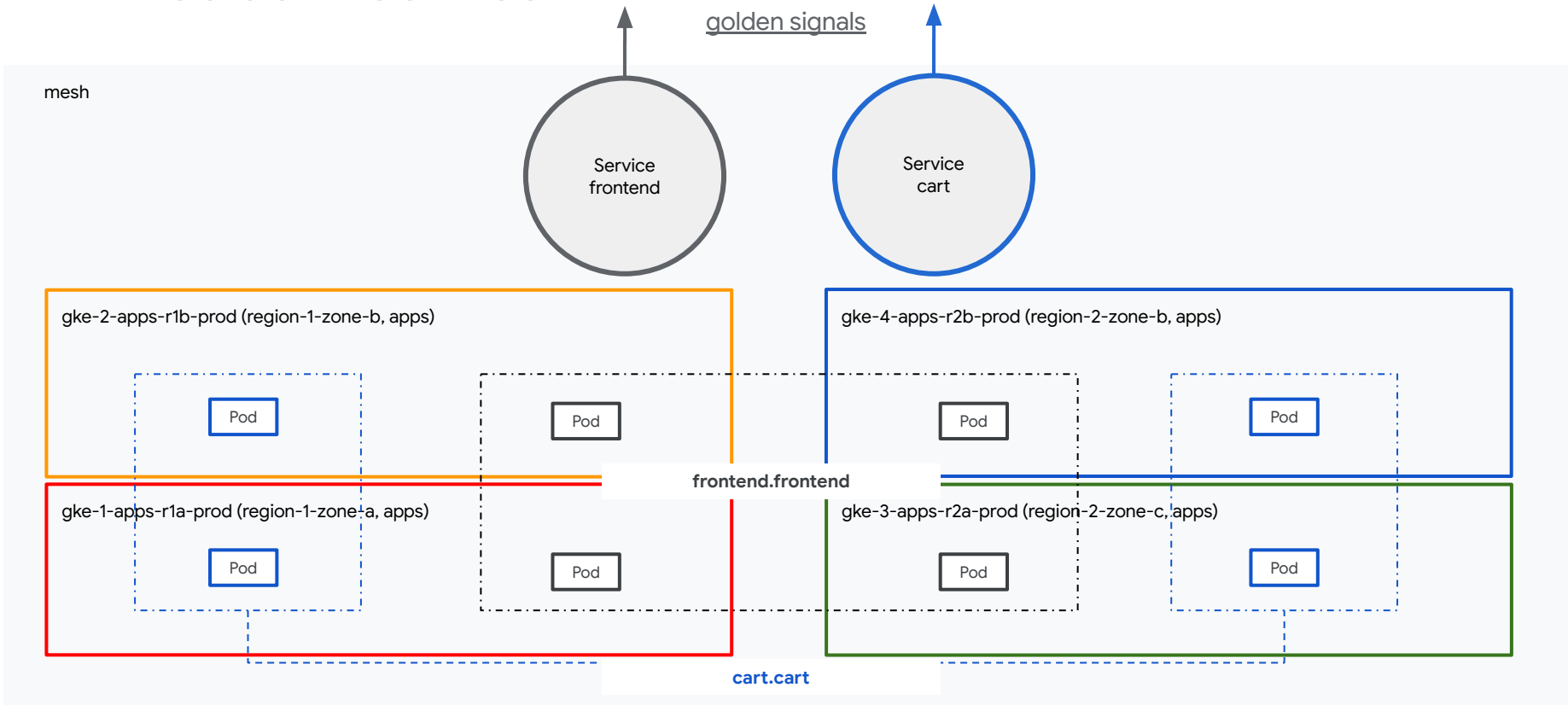
Locality failover



Telemetry



Anthos Service Mesh





Demo

Calls to action

Run distributed services

Never bet your Services on your
infrastructure

Calls to action

Run distributed services

Never bet your Services on your infrastructure

Monitor golden signals

Alert on Symptoms, not potential causes

Calls to action

Run distributed services

Never bet your Services on your infrastructure

Monitor golden signals

Alert on Symptoms, not potential causes

Consider location benefits

Distance to user

Failure domains

Running distributed services

bit.ly/run-distributed-services



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Next '21

Thank you