



From Toil to Empowerment: Building Self-Service Ingress with GitOps

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Agenda

Lifecycle of a Workday Public Cloud Ingress Request

Learnings From the Initial Model

Modernizing Ingress Stack with KRM

Case Study With an Example

Outcome

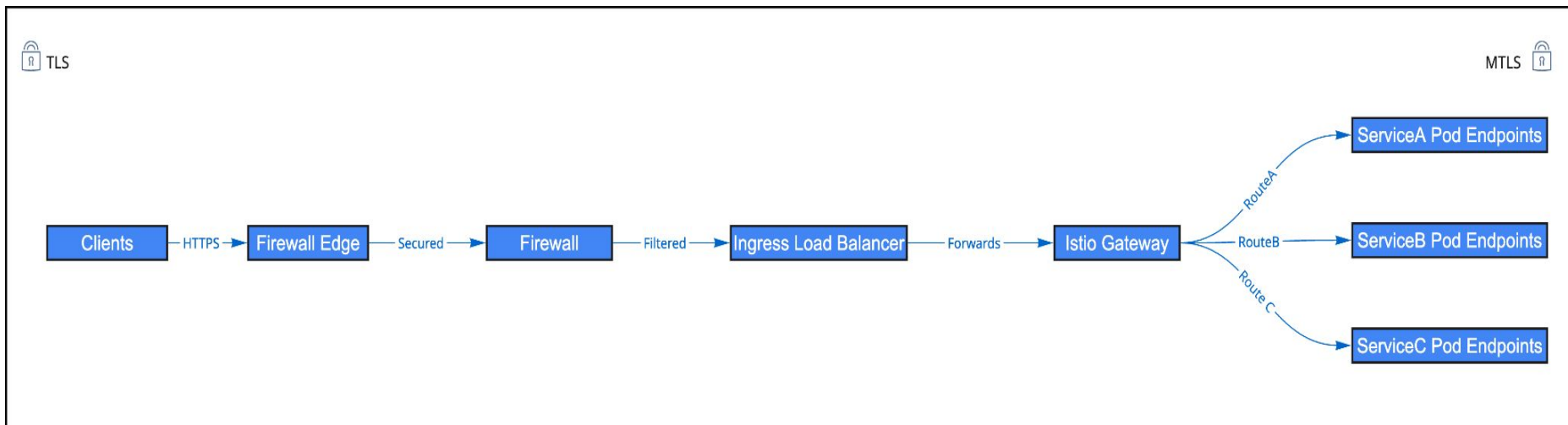
Q&A

Question ?

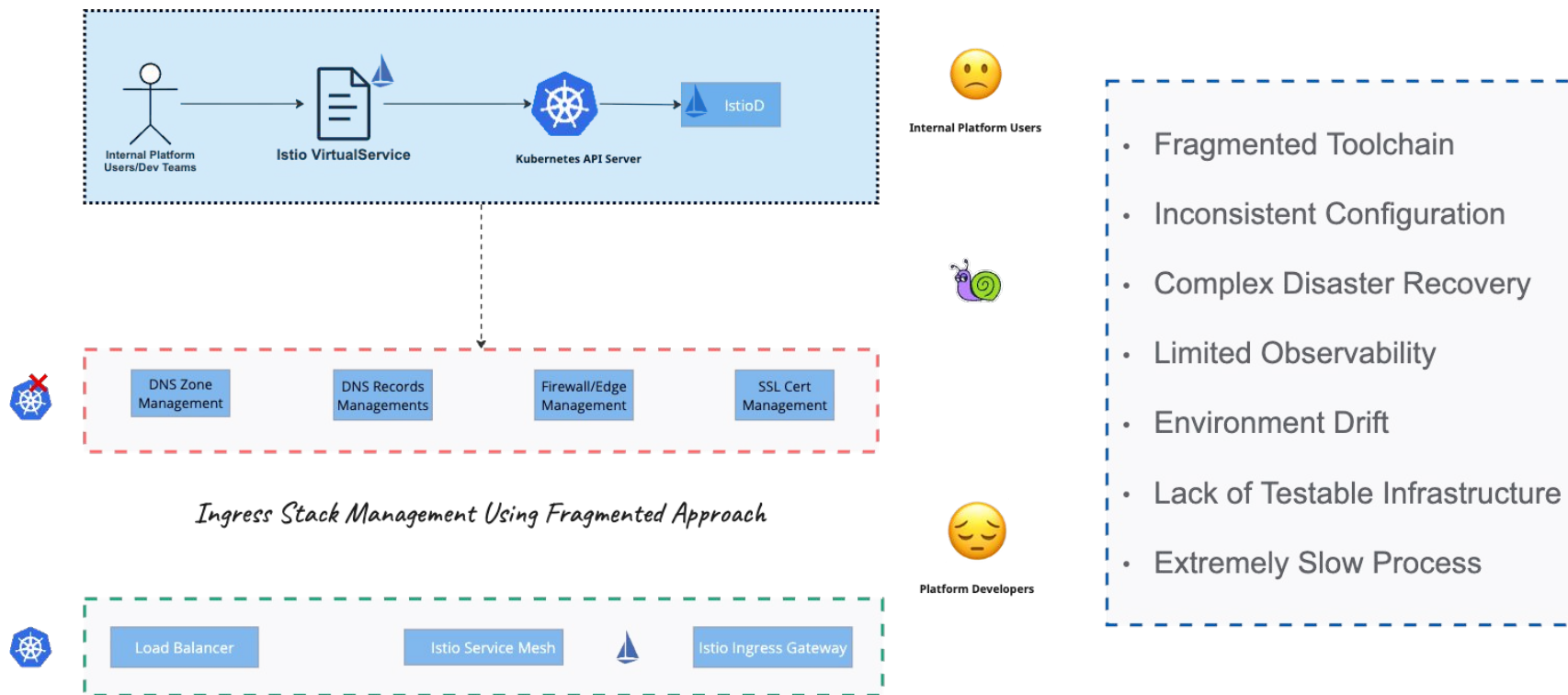
What is Ingress and why are we talking about Ingress Stack Management in SREConf ?



Lifecycle of a Workday Public Cloud Ingress Request



Learnings From the Initial Model



Modernizing Ingress With KRM(Operators)



Ingress Stack Management Using Fragmented Approach



Kubernetes Resource Model
[dns-zone.yaml, firewall-edge.yaml, gateway.yaml, cert.yaml, lb.yaml ...]



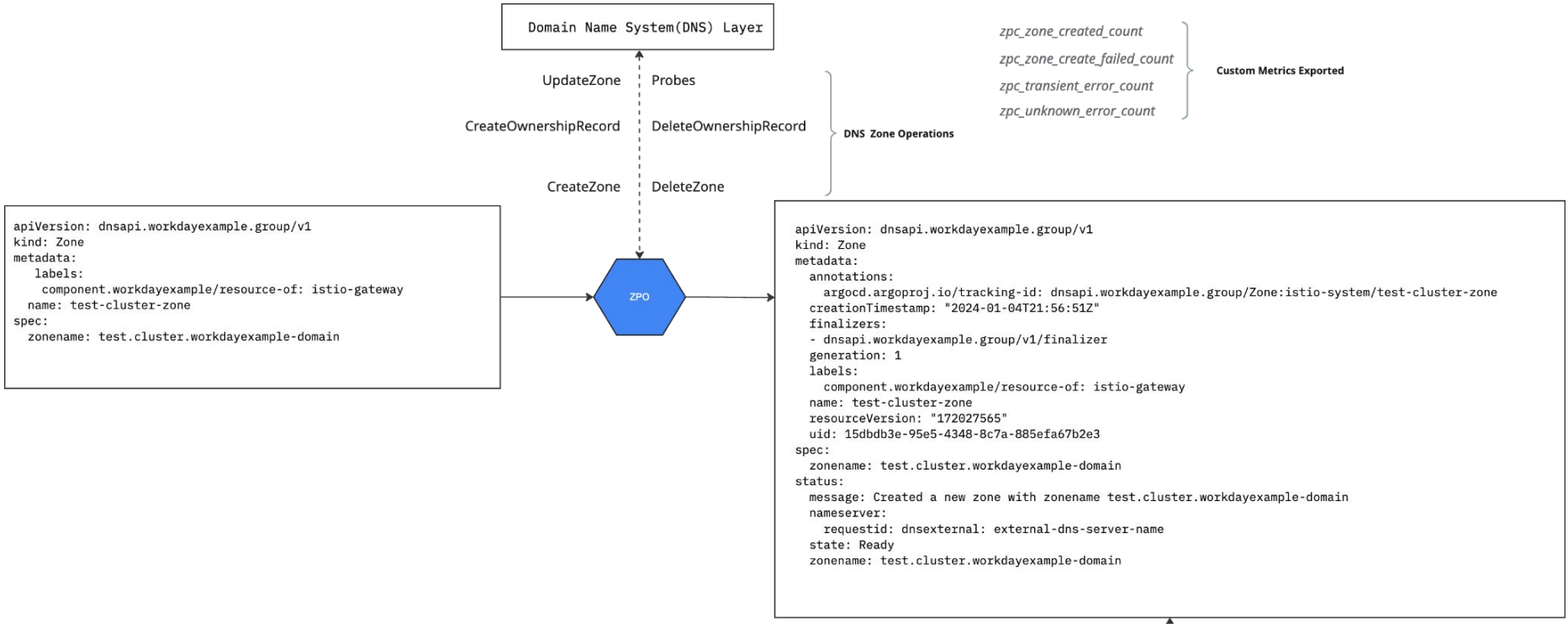
YAML

Custom Resources

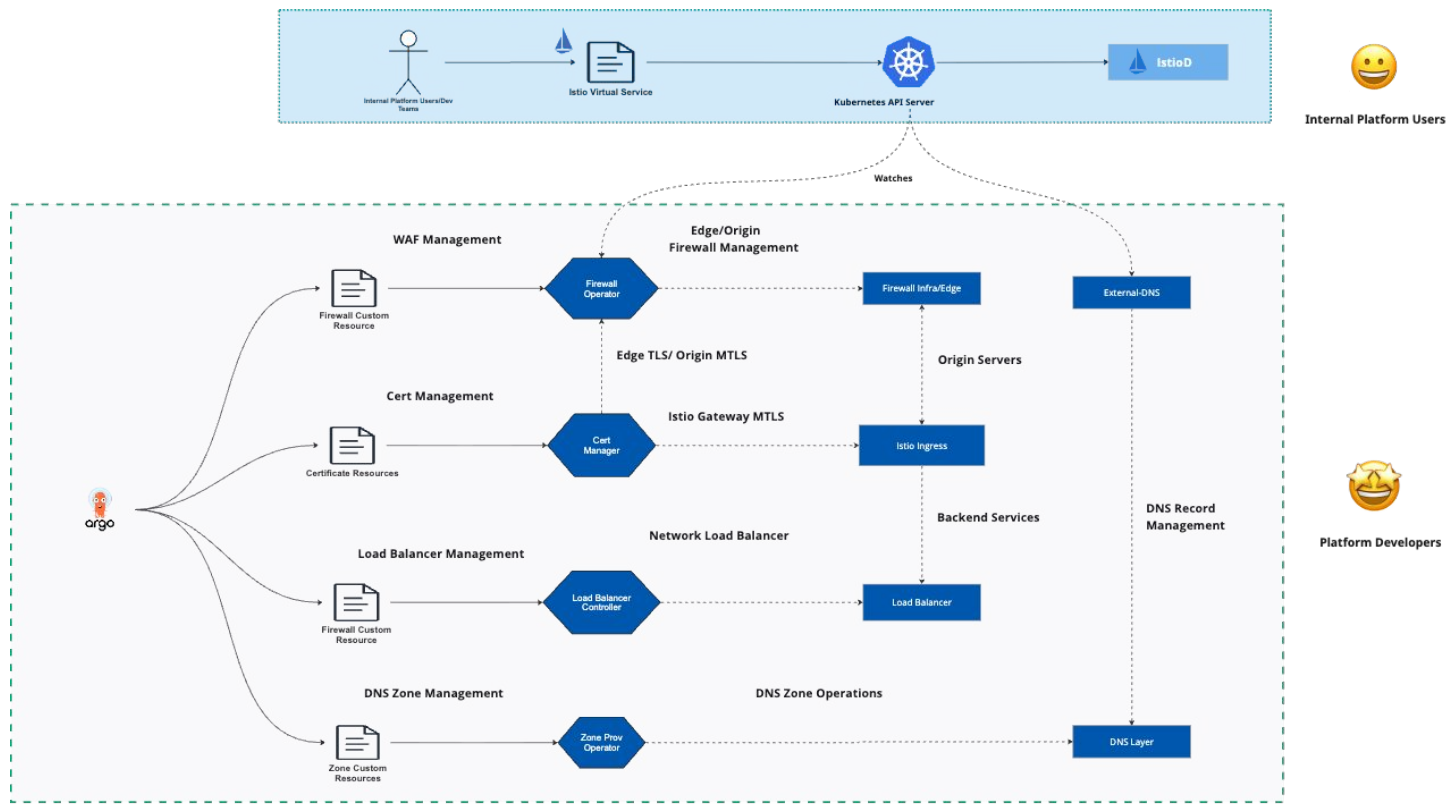


- Kubernetes Resource Model: readable format to define the desired system state using code.
- Using mix of proven open-source projects along with purpose-built custom operators for Ingress stack.
- Ingress capabilities are deployed and managed via Gitops.

Case Study: Zone Provisioning Controller



Outcomes



Internal Platform Users



Platform Developers



Thank you!



Q&A