XLRT- AWS Deployment Architecture

AWS WAF

s3 bucket - our SPA /GUI is hosted

Tenant 1

Amazon Cloudfront

AWS WAF

s3 bucket - our SPA /GUI is hosted

Tenant 2

Amazon Cloudfront

Amazon EKS - Kubernetes Cluster

VPC

🔒 Public subnet

AWS ALB Ingress Controller

Istio Controller

Elastic Load Balancing

AWS EKS Controller

Istio Rule
Tanent1: User-set1: 80% - traffic to prod
Tenant2: All user : 100 % traffic to prod
Tanent1: User-set2: 20% traffic to Beta

Tenant 1 User-set1 80% to V1 prod

API Calls

Tenant 2 100 % V1 prod

API Calls

Tenant 1 User-set2 20% to v2 Beta

API Calls

🔒 Private subnet

POD1-v1

POD2-v1

PODN-v1

Graph1-pod3-v1

ML-Model1-v1

ML Model2-v1

🔒 Private subnet

POD1-v2

POD2-v2

PODN-v2

Graph2-pod3-v2

ML Model2-v2

ML-Model1-v2

Service Mesh Virtual Service

Istio

Fluentd aggregator

fluentd

Service Mesh Virtual Service

Istio

Fluentd aggregator

fluentd

Production Version

BETA Version

kiali

Grafana

Prometheus

Grafana Dashboard

Amazon GuardDuty

AWS CloudTrail

Amazon CloudWatch

EFS-Share File System

S3 Bucket

Amazon ECR

Aws Services , Storage and Monitoring Dashboards

Connectivity between AWS VPC and 3rd Party SaaS may be established using either a/b/c

a) using VPC peering.
b) Using VPC Private Link.
c) Using NAT Gateway

RabbitMQ(Saas)

MongoDB-Atlas (Saas)

Vault

Connectivity between AWS VPC and 3rd Party SaaS may be established using either a/b/c

a) using VPC peering.
b) Using VPC Private Link.
c) Using NAT Gateway

These are 3rd Party managed SaaS products, consumed by App