

- two clusters comprises entire product topology.
- production cluster is isolated from other runtimes, and only contains istio and the production runtime. pending other infrastructure required for running and managing production runtime.
- staging cluster runs behind company firewall, supports all other runtimes, and developer infrastructure that manages both staging cluster and production cluster, such as spinnaker.
- spinnaker manages deployments to all clusters. it deploys release candidates to the production namespace on the production cluster.
- istio then takes those raw deployments and manages http traffic rerouting, load balancer configuration, canary deployments, red/black deployments. (it may make more sense for spinnaker to handle canaries and red/black)
- next step is standing up and managing in unison clusters in multiple regions and data centers for fail over and high availability at the infrastructure level