

Design Exercise Knowledge Check: 2 Regions, 2 Clouds

ACE Technical Team

Globex Corp: Business Objectives



- Globex Corp uses GCP and Azure
- They are running production and test workloads in Frankfurt and Singapore regions
- The goal is that prod applications have high-quality links (low latency) to provide the best customer experience for the end users
- Sensitive data is exchanged, so the traffic needs to be perfectly secure to protect the end user information

Globex Corp: Cloud Architecture Requirements



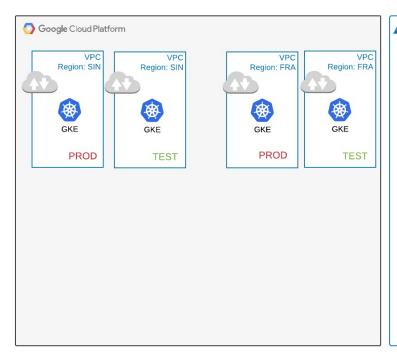
Let's design the cloud network architecture for Globex, given the following requirements:

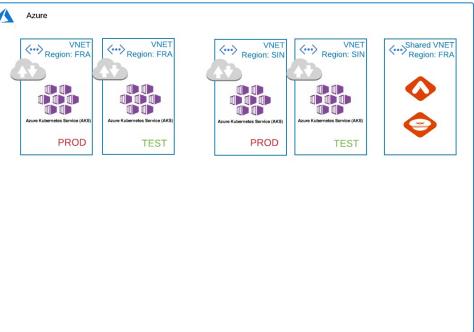
- PROD and TEST need to be segmented
- 2. PROD and TEST need to have access to the Shared Services VNet
- 3. All the traffic between networks needs to be encrypted
- 4. Traffic going between PROD networks needs to be inspected by a NGFW
- 5. Lowest latency possible should be the goal always
- Validation
 - 1. How would you validate that prod and test are segmented?
 - 2. What are the expected routing tables at vpc route table, spoke and transit gateways for different segments?
 - 3. How can you check traffic between Test and a server in Shared Services in last hour?
 - 4. FRA-Prod-AKS is reporting high latency when accessing SIN-GKE-PROD. What can be some things to look at to find the issue?



Design Template

- 1. PROD and TEST need to be segmented
- 2. PROD and TEST need to have access to the Shared Services VNet
- All the traffic between networks needs to be encrypted
- Traffic going between PROD networks needs to be inspected by an NGFW
- 5. Lowest latency possible should be the goal always







aviatrix ACE

Aviatrix Certified Engineer