



Design Exercise Knowledge Check: 2 Regions, 2 Clouds

SOLUTIONS ENGINEERING

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:

1. 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
6. 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**
3. All the traffic between networks needs to be **encrypted**
4. Traffic going between PROD networks needs to be **inspected by an NGFW**
5. **Lowest latency** possible should be the goal always

