

RA01-3: High Availability with Multi Data Center

Architectural Points

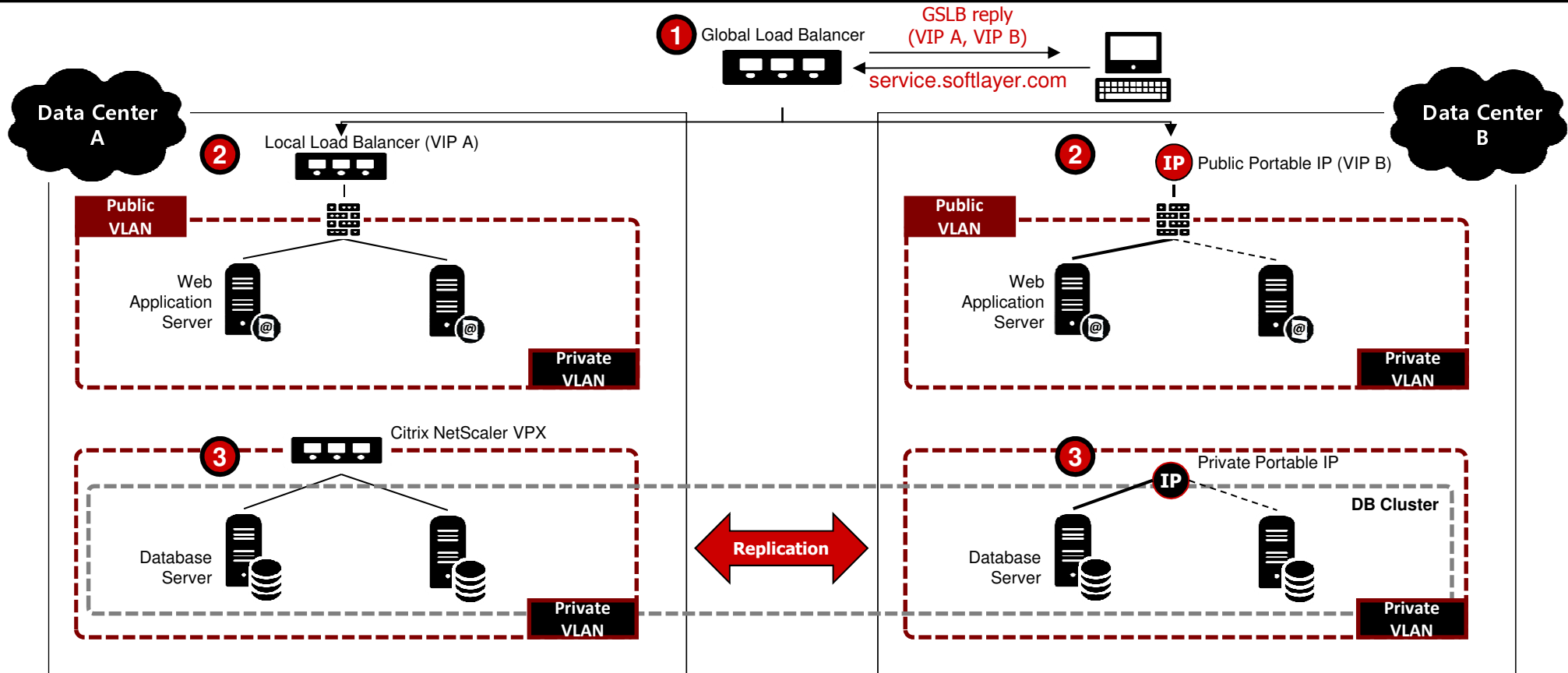
- Supports multiple data centers in different location
- Automatic failover when one data center fails
- Automatic failover within the data center

Required Resources

Global Load Balancer
Local Load Balancer

Public VLAN
Firewall

Private VLAN
Portable IP (Optional)



1. **Global Load Balancer (GLB)** replies the VIP in each data centers followed by four balancing methods (Geography, Round Robin, Weighted Round Robin, Failover). GLB performs a health check using HTTP or TCP, If there is a failure on one of data center, Global Load Balancer will reply with the 'Live' data center.

2. Each Data Center can be either configured as Active-Active or Active-Standby according to High Availability requirements. Refer to **RA01-01** and **RA01-02** pattern for further detail.

3. DB servers can be provisioned in private only **VLAN** for additional security and can be either configured as Active-Active or Active-Standby according to High Availability requirements. Refer to **RA01-01** and **RA01-02** pattern for further detail.