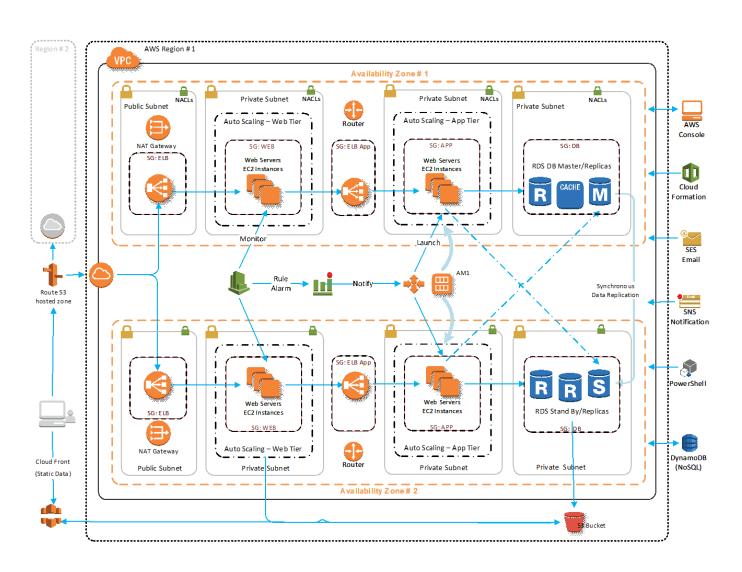
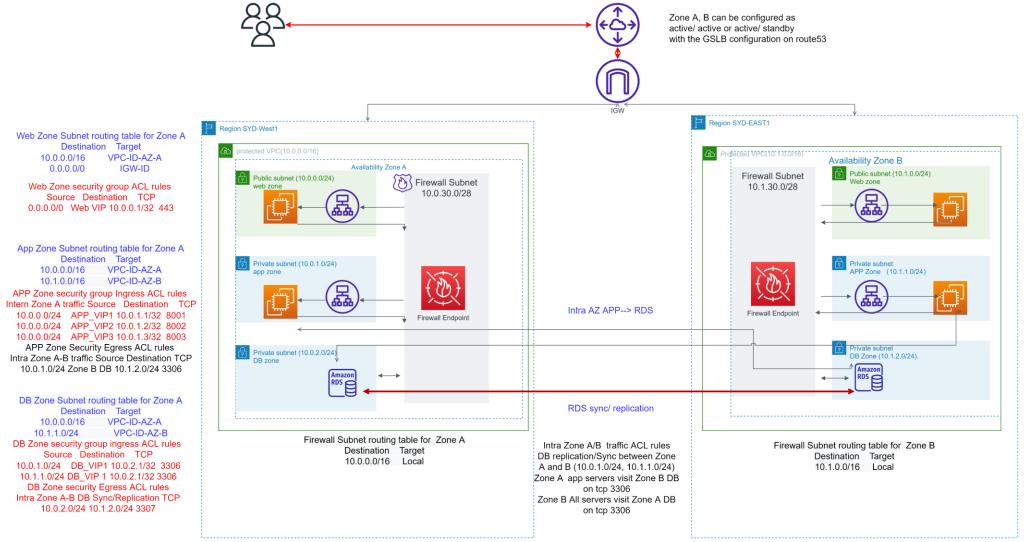
Project Security design consideration

- Region/Availability Zones High Availability (Active/Active, Active/standby or multi-region active)
- Edge router iBGP/eBGP failover design
- GSLB configuration for Zones HA
- service failover for web zone, app zone, and DB zone(clustering)
- Traffic segregation (web/app/DB) and subnet design
- security route table design
- VPC security group and rules design
- load balancing and NAT GW design
- DB tier data sync/replication
- SSL offloader/CA/ certificate manager
- application layer security (XML, HTTPS head/URL filter/read write access permit, etc)
- transit gateway for VPN/VPLS/direct access (routing table, security ACL rules)
- branch (site to site) VPN/VPLS/ remote access design
- user group and members roles, access
- remote monitoring, alerting and change management

High Level Security design for NBS internet trading migration project)



Low Level Security design 1



Web Zone Subnet routing table for Zone B
Destination Target
10.1.0.0/16 VPC-ID-AZ-B
0.0.0.0/0 IGW-ID

Web Zone security group ACL rules Source Destination TCP 0.0.0.0/0 Web VIP 10.1.0.1/32 443

App Zone Subnet routing table for Zone A
Destination Target
10.0.0.0/16 VPC-ID-AZ-A
10.1.0.0/24 VPC-ID-AZ-B

outbound ACL rules intra Zone A-B traffic Source Destination TCP 10.1.1.0/24 Zone A DB 10.0.2.0/24 3306

DB Zone Subnet routing table for Zone A
Destination Target
10.1.0.0/16 VPC-ID-AZ-B
10.0.1.0/24 VPC-ID-AZ-A
DB Zone security group ACL rules
Source Destination TCP
10.1.1.0/24 DB_VIP1 10.1.2.1/32 3306
10.0.1.0/24 DB_VIP1 10.1.2.1/32 3306
DB Zone security Egress ACL rules
Intra Zone A-B DB Sync/Replication TCP
10.1.2.0/24 10.0.2.0/24 3307