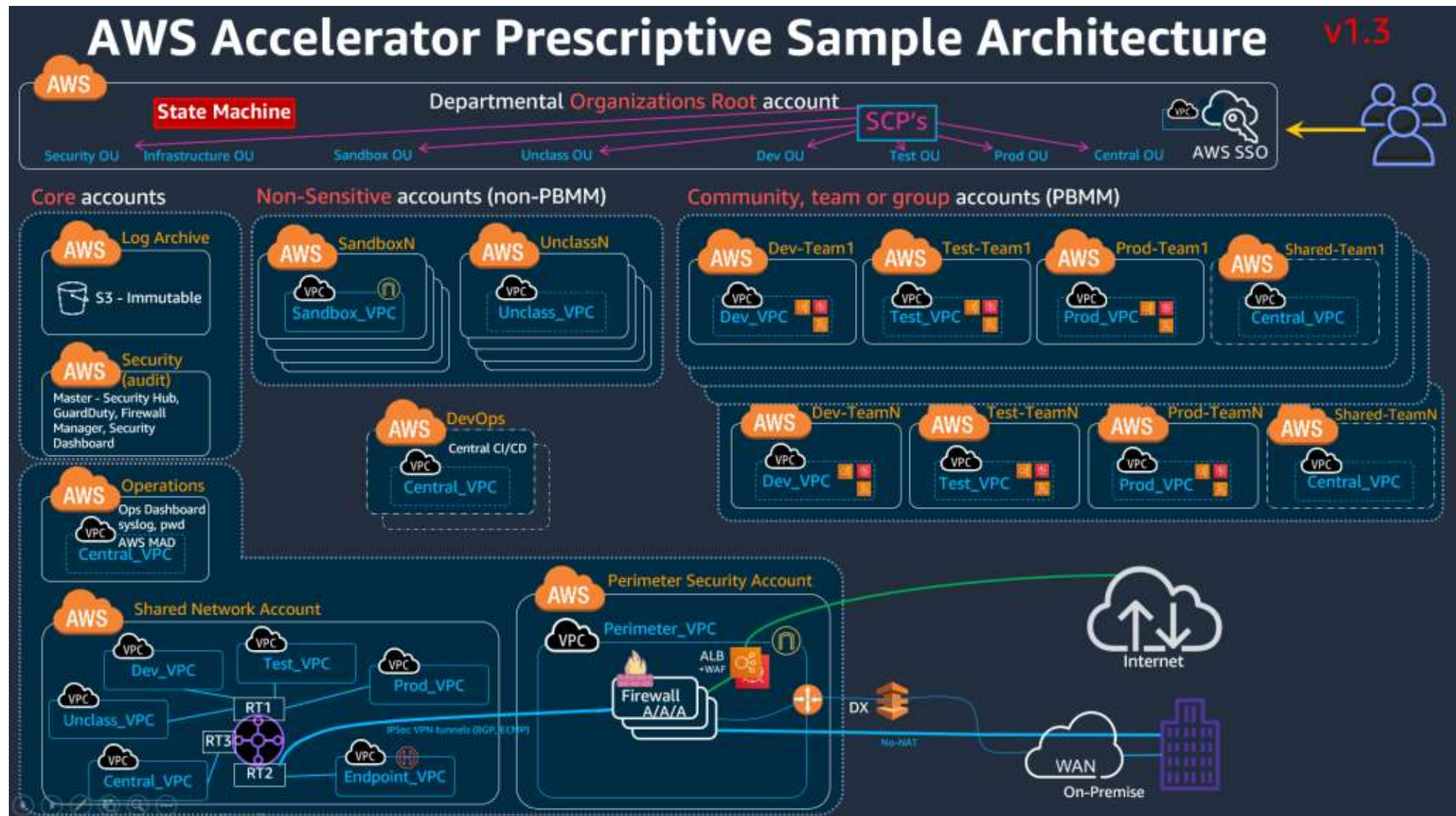
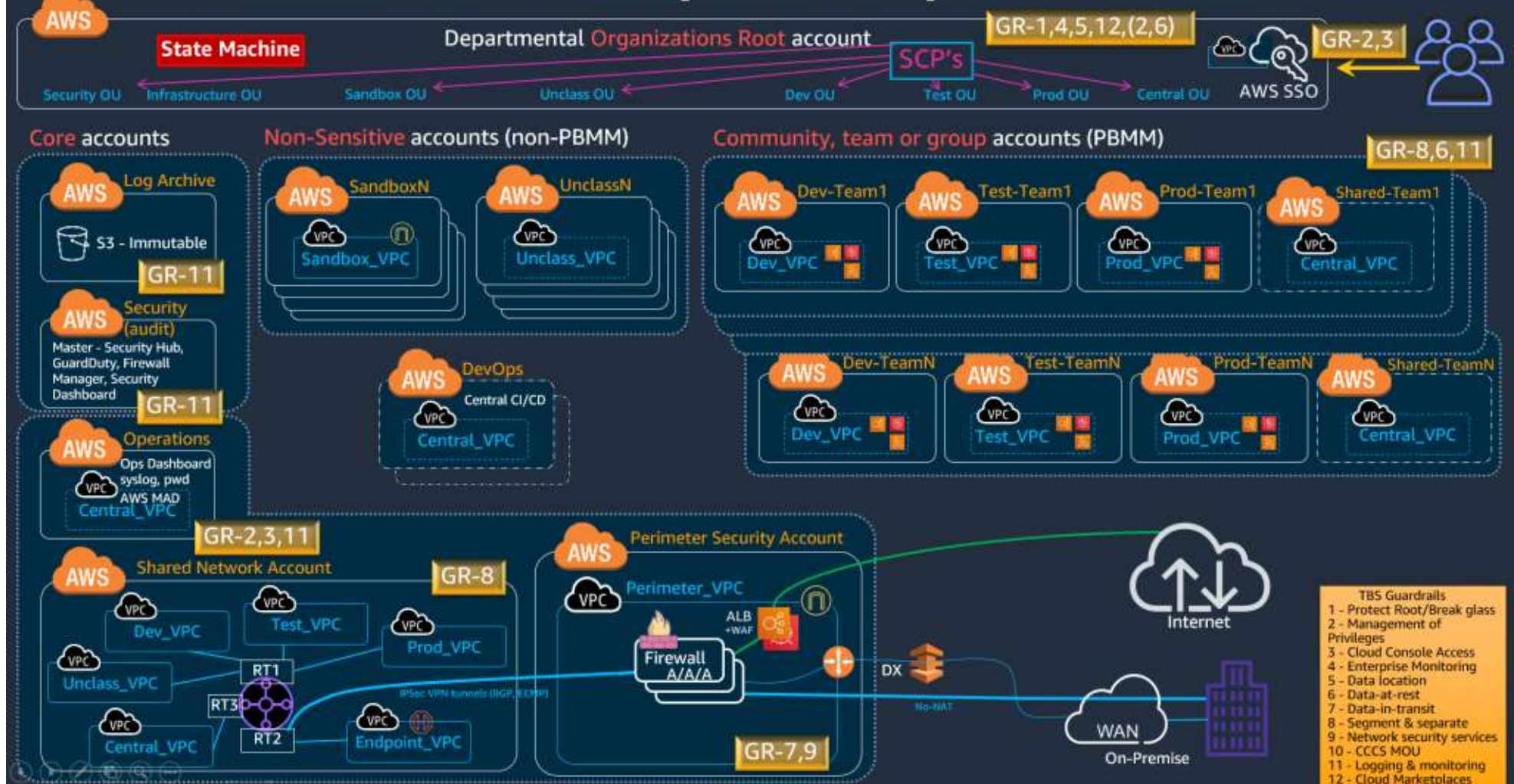


AWS Accelerator Prescriptive Sample Architecture

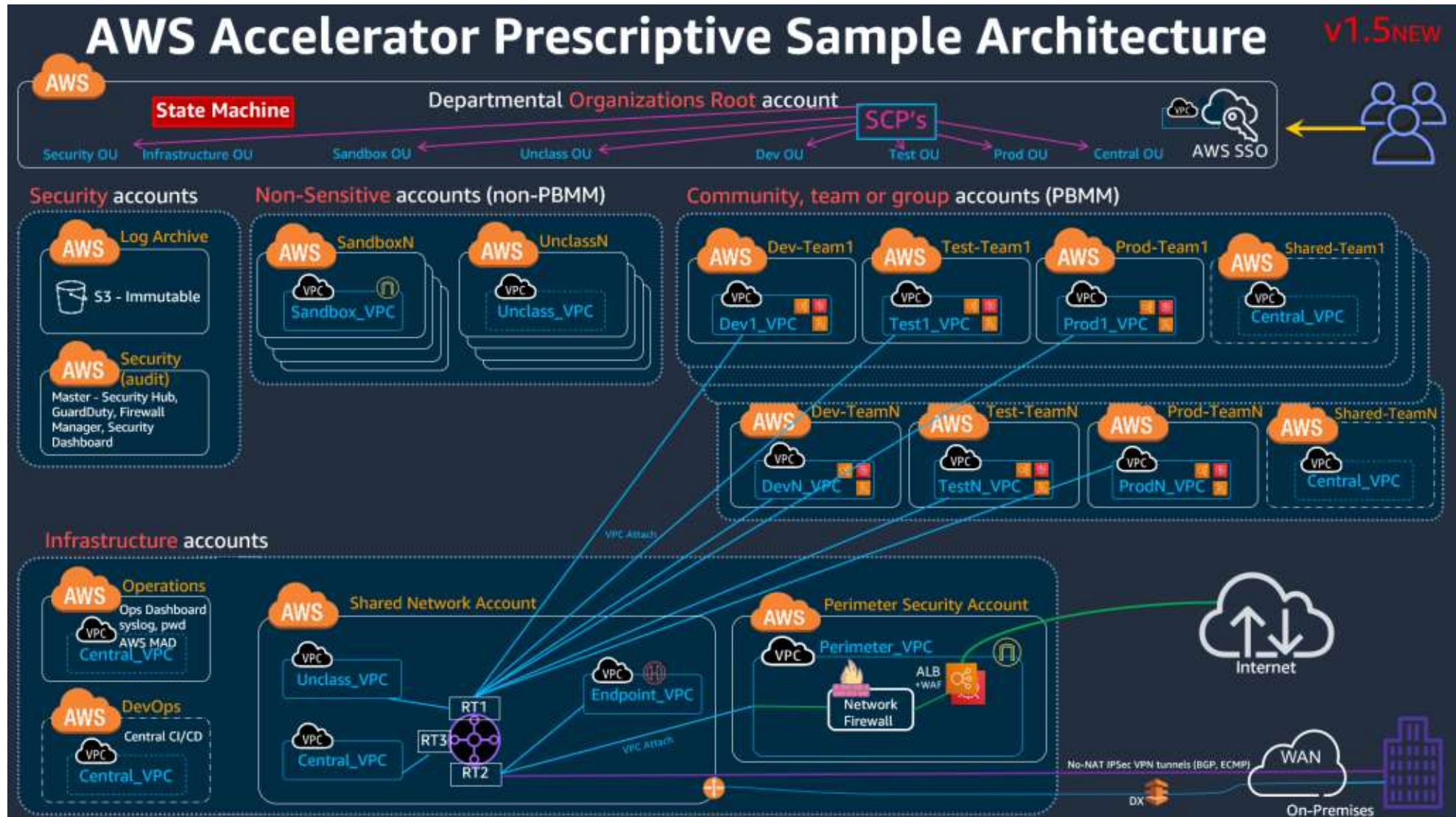
Shared VPC Architecture



AWS Accelerator Prescriptive Sample Architecture v1.3



Spoke VPC Architecture

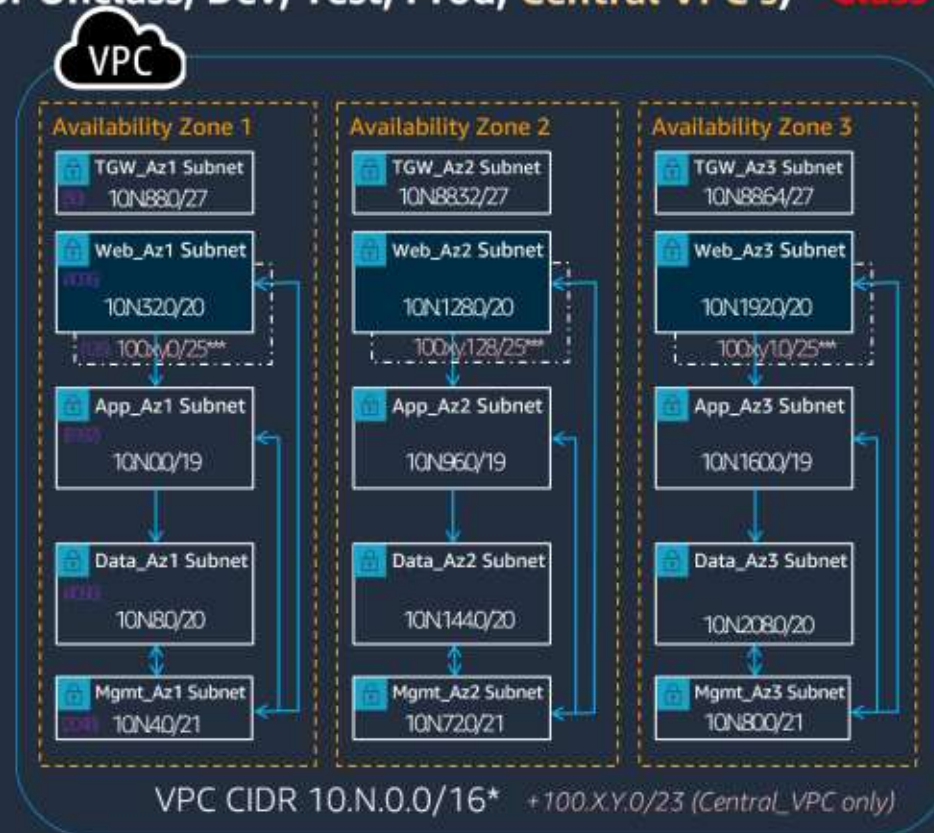


VPC and Security Group Patterns

AWS Accelerator Standard VPC Design

v1.2d

(Used for Unclass, Dev, Test, Prod, Central VPC's) - **Class B** (Half Class B option exists)



NOTE: Subnets are NOT IP's. Security Groups are being used as the zoning boundary/ZIP. This design leverages the concept of mini micro-ZIP's, potentially one per application, per zone.

NOTE: TGW subnets are not shared. Sandbox_VPC drops the TGW subnets, Web subnets become public w/IGW and NATGW for private subnets. Central VPC RFC6598 subnets named GCWide_azX.

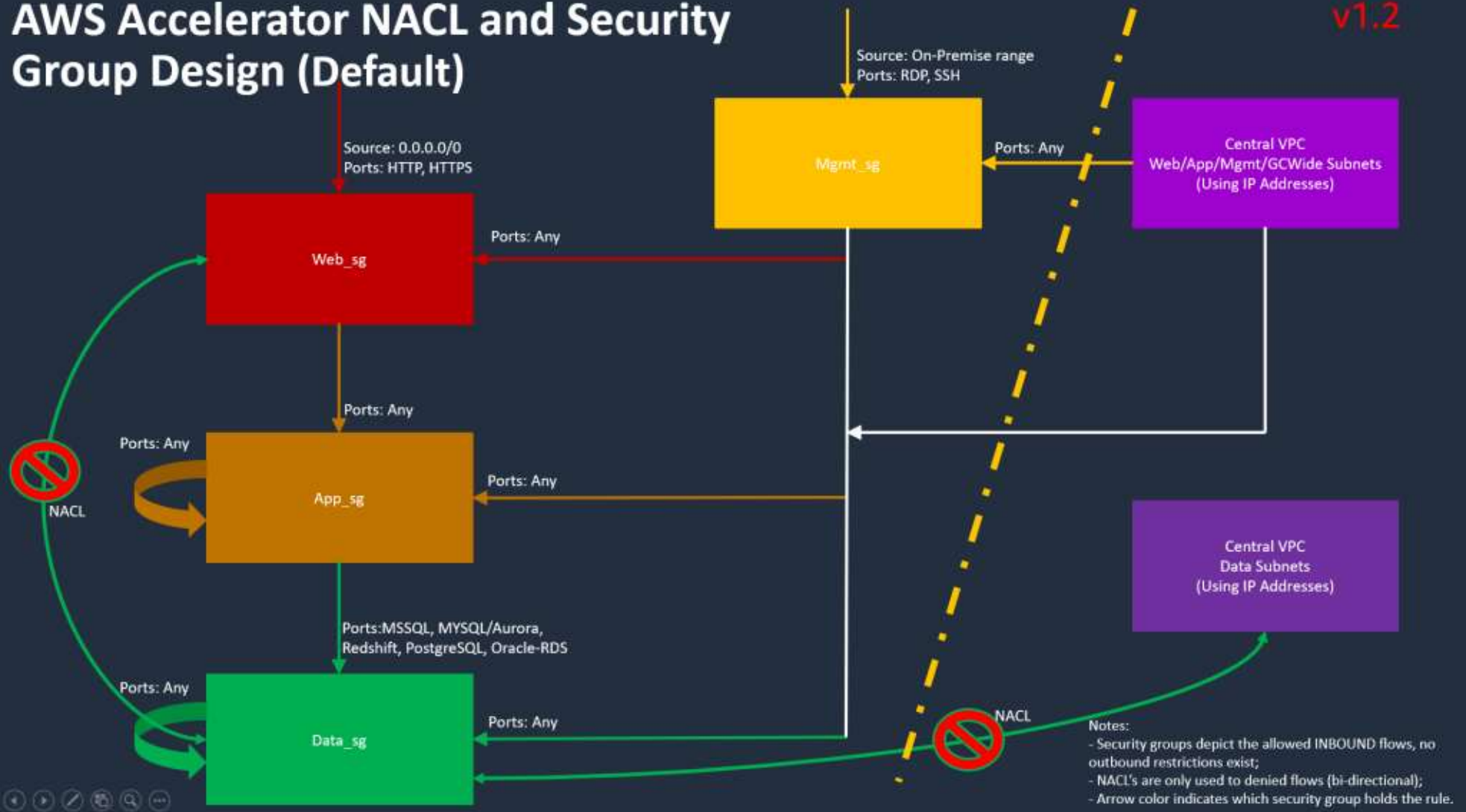
* We are assigning a full /16 to each VPC (i.e. 10.10.0.0/16 for Dev, 10.11.0.0/16 for Test, etc.). Customer can optionally use other RFC1918 CIDR blocks. It is critical these CIDR ranges do not conflict with a departments on premise CIDR ranges as there is NO NAT'ing for ground to cloud communications (mark as "used for cloud" in the departments on premise IPAM system).

** Note: 10.N.224.0/19, 10.N.88.96-10.N.95.255, and 100.x.y.1.128/25 are available for future assignment.

*** The Central VPC CIDR has been extended with a RFC6598 CIDR range (internal web subnets) to host MAD and other services that may require cross departments access.

AWS Accelerator NACL and Security Group Design (Default)

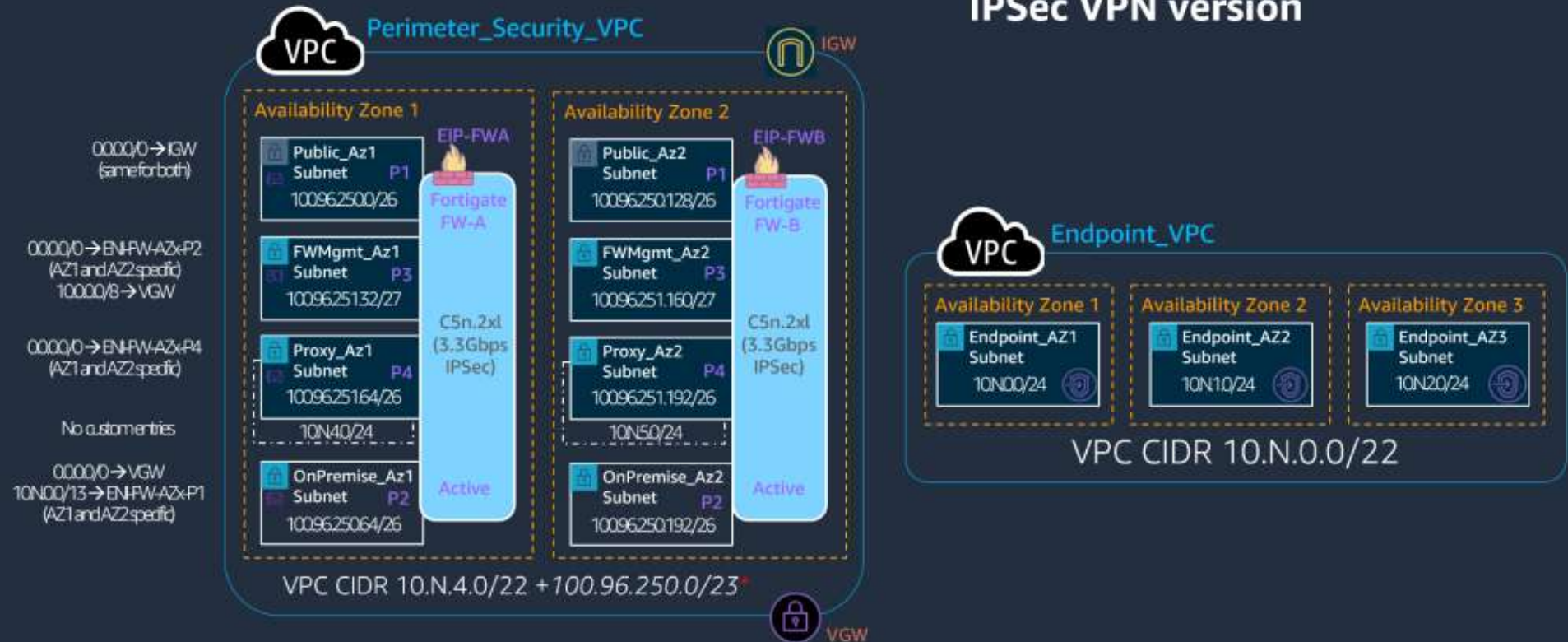
v1.2



AWS Accelerator Specialty VPC Designs

IPSec VPN version

v1.2



* 100.96.250.0/23 is a sample RFC1918 block, customers must each use their own block assigned by ISP. Departments also need ISP to assign unique BGP ASNs.

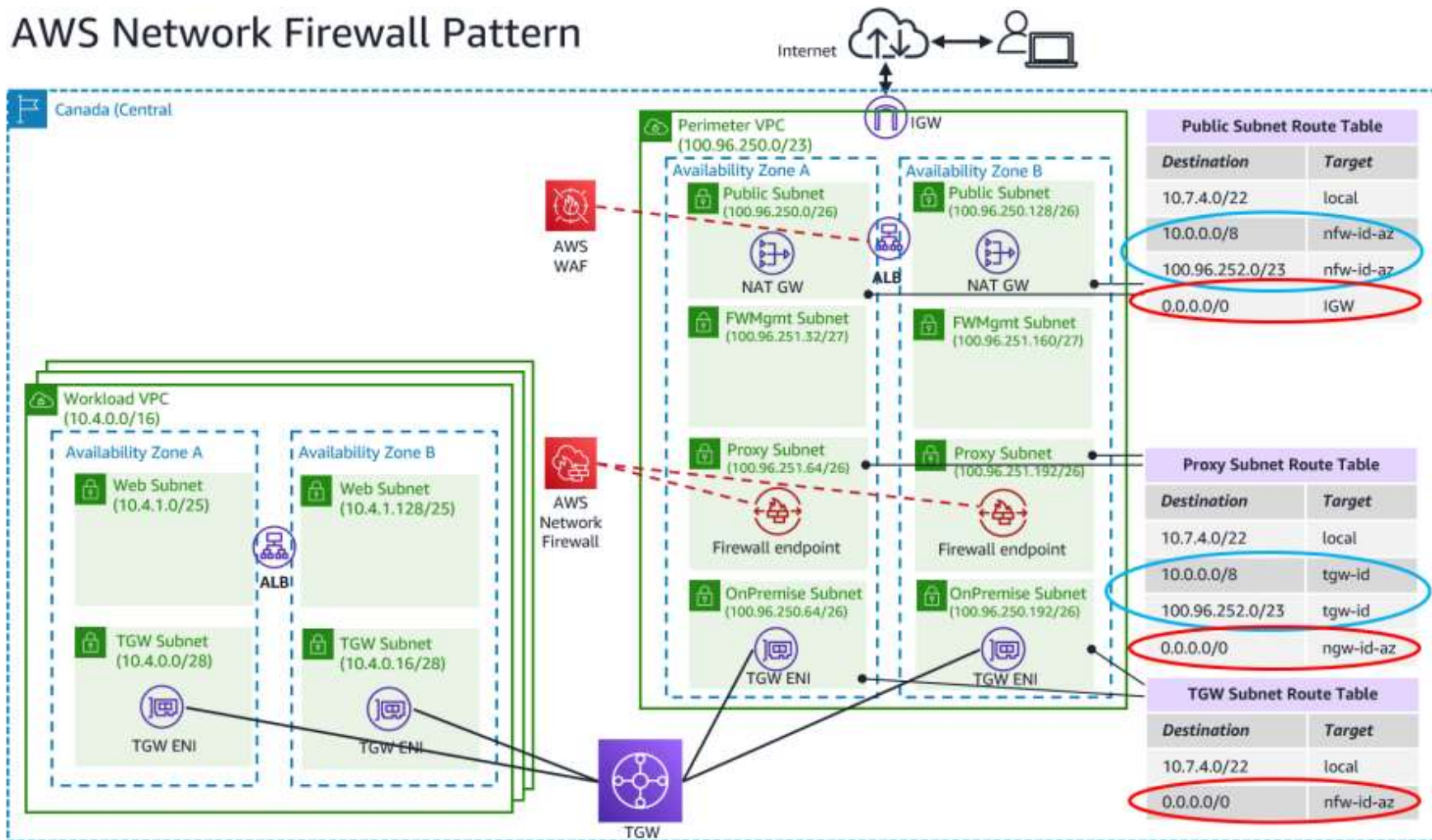
** Note: 10.n.4.0/22 must be used to create VPC as you cannot extend a 100.* subnet block, this is a FortiSandbox detonation subnet

*** Additional 100.96.252.0/23 needed for the overlay network (Fortigates inside VPN tunnel). Before GCCAP available, Public subnet will hold ELB's for public facing applications.

**** Remaining available addresses: 100.96.251.0/27 and 100.96.251.128/27 (32 per AZ)

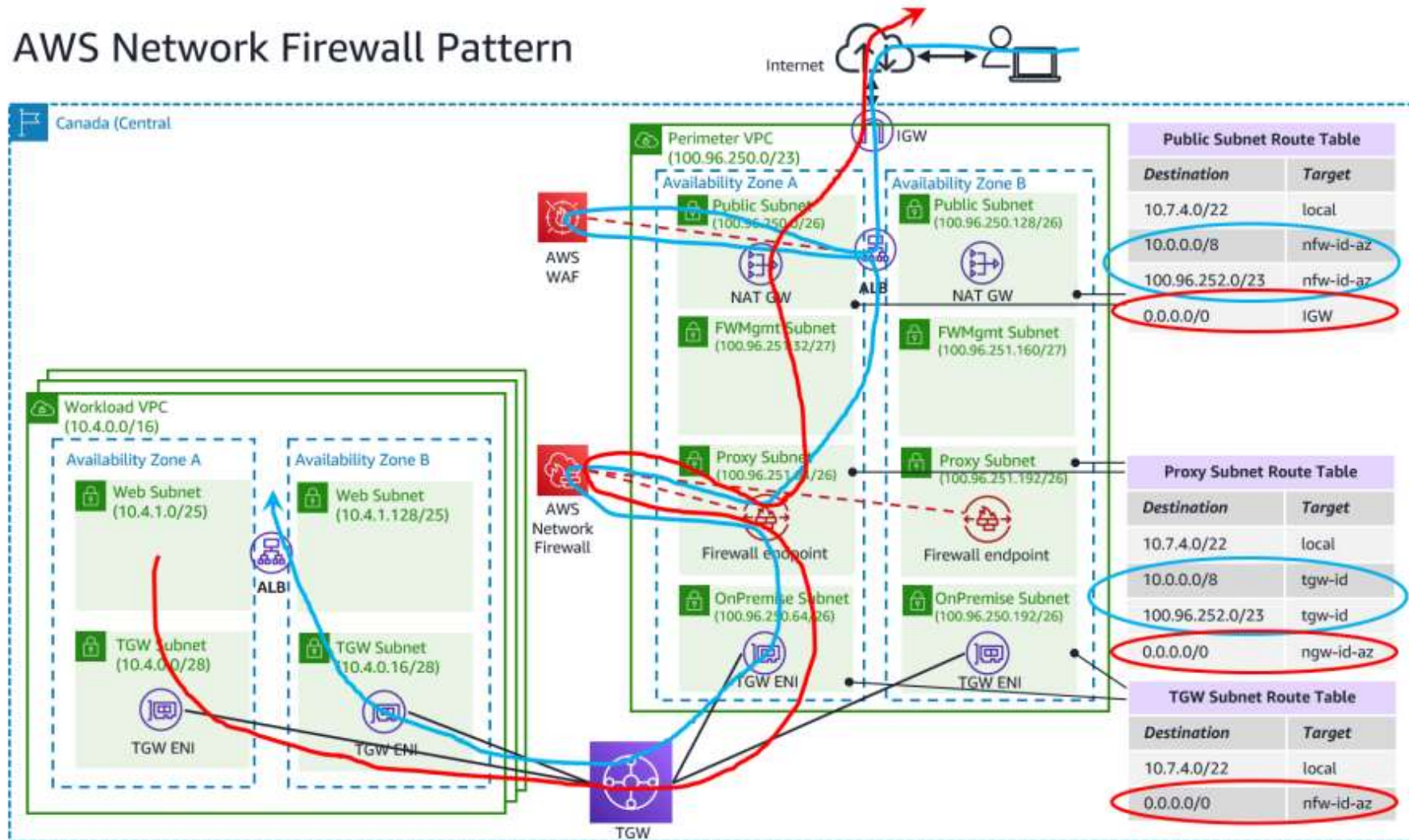
Additional Perimeter Patterns

AWS Network Firewall Pattern



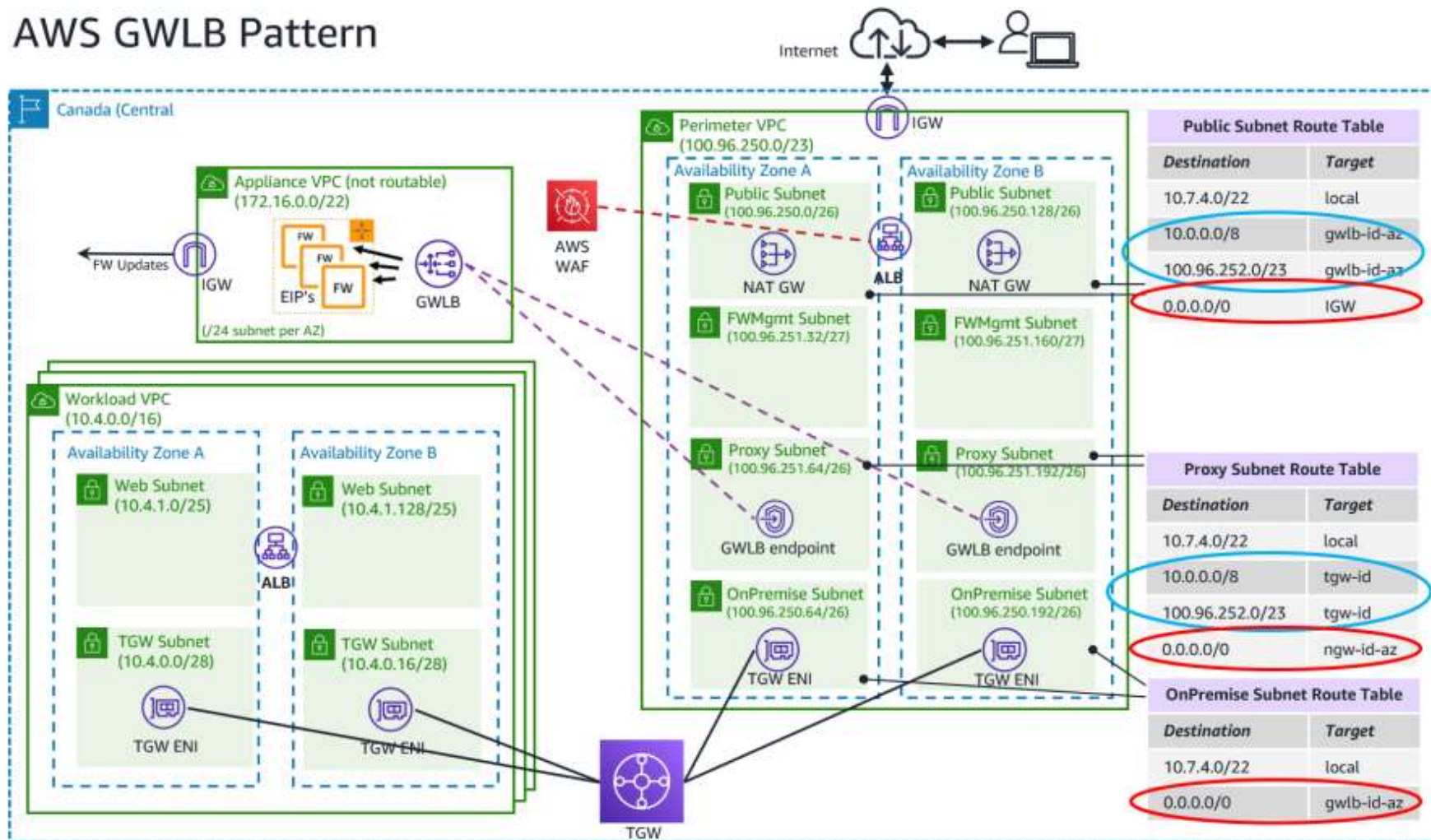
NOTE1: Distinct route tables required per AZ, which targets the local AZ's nfw, gwlb or ngw endpoint

AWS Network Firewall Pattern



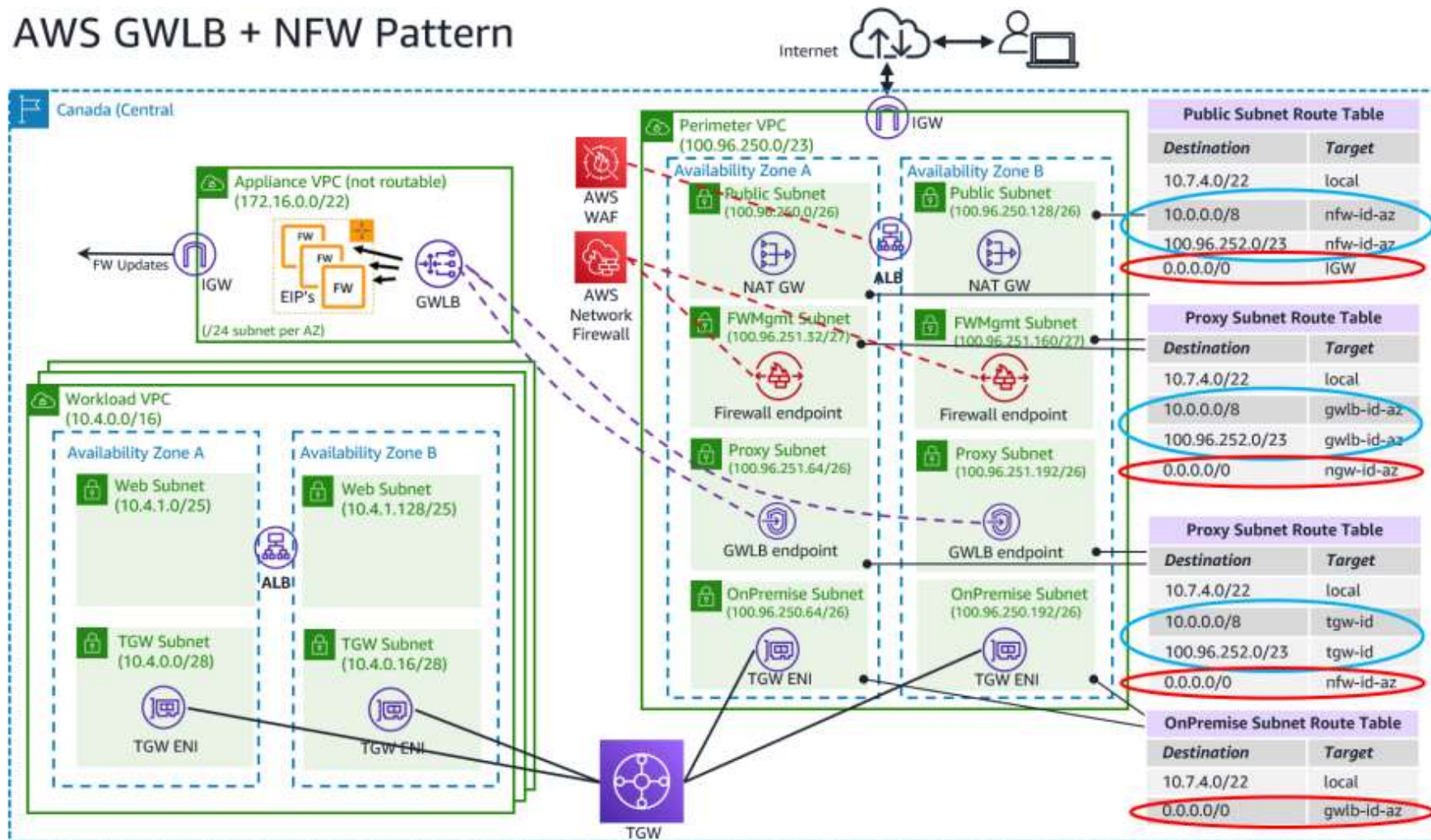
NOTE1: Distinct route tables required per AZ, which targets the local AZ's nfw, gwlb or ngw endpoint

AWS GWLB Pattern



NOTE1: Distinct route tables required per AZ, which targets the local AZ's nfw, gwlb or ngw endpoint

AWS GWLB + NFW Pattern



NOTE1: Distinct route tables required per AZ, which targets the local AZ's nfw, gwlb or ngw endpoint