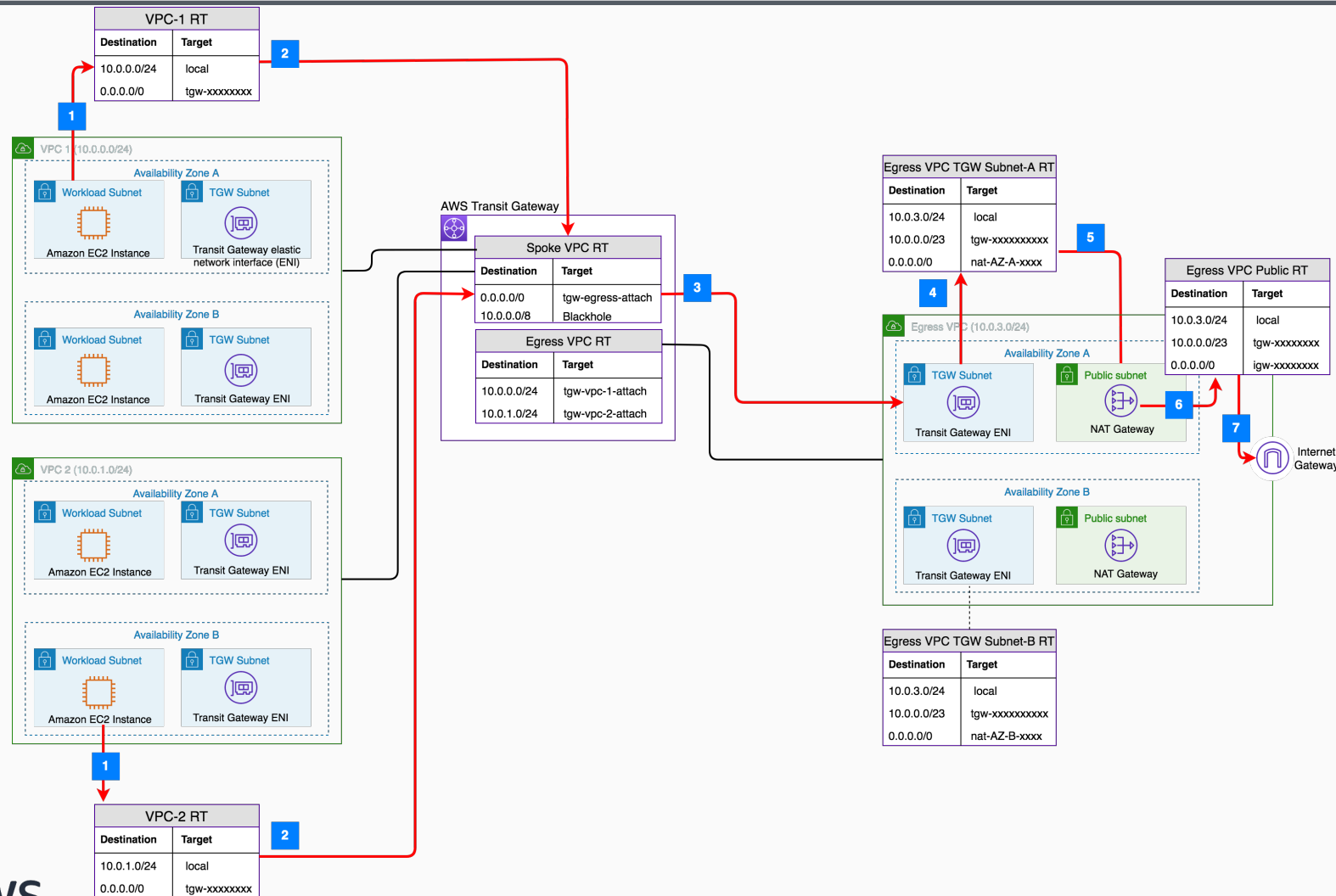


Architecture for Centralized Internet Egress with NAT Gateway – Inter-VPC Communication Disabled

Use NAT Gateway and AWS Transit Gateway to create high availability centralized internet egress for all Amazon Virtual Private Clouds (VPCs) while isolating inter-VPC traffic.



- 1 Traffic from the **Amazon Elastic Compute Cloud (Amazon EC2)** instance in the workload subnet attempts to reach the internet. The subnet's route table routes to **AWS Transit Gateway** via the default route (0.0.0.0/0).
- 2 Traffic enters **Transit Gateway** on the VPC-**Transit Gateway** attachment. It is routed to the egress VPC via the default route in the **Transit Gateway** route table.
- 3 Traffic enters the egress VPC on the **Transit Gateway** attachment subnet.
- 4 This subnet's route table routes the traffic to the Network Address Translation (NAT) gateway in that Availability Zone (AZ) via the default route.
- 5 Traffic enters the NAT gateway, and the source IP is now changed to NAT gateway IP.
- 6 When exiting the NAT gateway, the traffic looks up the public subnet route table and gets routed to the internet gateway.
- 7 The traffic leaves for the internet.

See also: [Creating a single internet exit point from multiple VPCs Using AWS Transit Gateway](#)