

## # Lab: Hybrid Connectivity with AWS

### ## Objective

Establish secure hybrid connectivity between an on-premise simulation and AWS using:

- VPN over Internet
- AWS Transit Gateway

### ## Part A: Console Steps

1. Create a Customer Gateway
2. Create a Virtual Private Gateway
3. Attach the VGW to a VPC
4. Create a Site-to-Site VPN connection
5. Configure routing

### ## Part B: Terraform Steps

1. Define customer\_gateway and vpn\_connection resources
2. Attach VGW to VPC
3. Update route tables for VPC and simulated on-prem

### ## Validation

- Use ping/traceroute from EC2 to verify tunnel
- Check VPN connection status in console