Virtual Private Networks (VPN)

Overview

In this lab, you establish VPN tunnels between two networks in separate regions such that a VM in one network can ping a VM in the other network over its internal IP address.

Steps
- **Create VPN gateways in each network**
- **Create VPN tunnels between the gateways**
- **Verify VPN connectivity**

Task: Create the VPN gateway and tunnels

Reserve two static IP addresses

```
gcloud compute addresses create vpn-1-static-ip\
```

```
    --global \
```

```
    --ip-version IPV4
    --region us-central1
```

```
gcloud compute addresses create vpn-2-static-ip\
```

```
    --global \
```

```
    --ip-version IPV4
```

```
    --region europe-west1
```

Task: Create the vpn-1 gateway and tunnel1to2

```
gcloud compute vpn-tunnels create tunnel1to2
```

```
--peer-address= vpn-network-1 --peer-external-address=VPN-2-static-IP
```

`--peer-gcp-gateway-region` + **us-central1** `--ike-version`**=gcprocks**

`--local-traffic-selector`**=10.1.3.0/24**

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Do the same vpn-2 gateway and tunnel2to1

swap networks and set --region = europe-west1 and --local-traffic-selectorn = 10.5.4.0/24

Task 3: Verify VPN connectivity