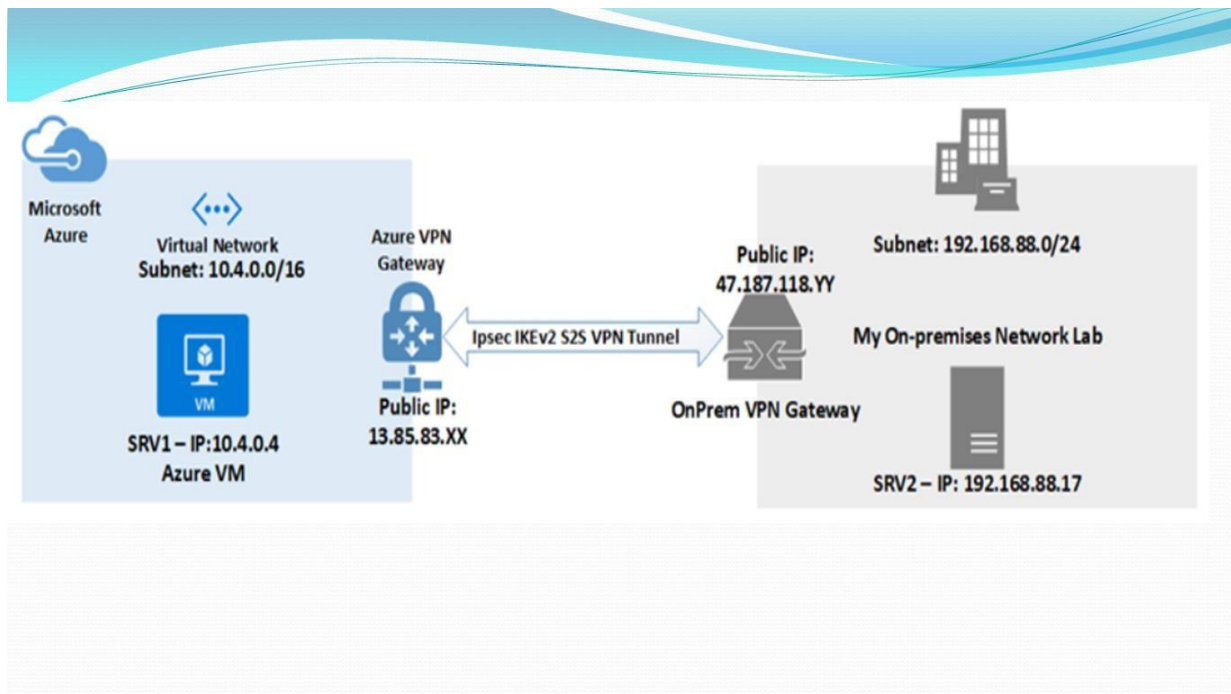


Azure VPN GATEWAY

- Azure VPN Gateway is Azure VPN Device on Azure Cloud
- We can create Site to Site VPN using Azure VPN gateway and on-premises VPN device
- The traffic between Azure VPN gateway and on-premises VPN device is encrypted and goes over Internet
- Each Vnet can have only one Azure VPN gateway.

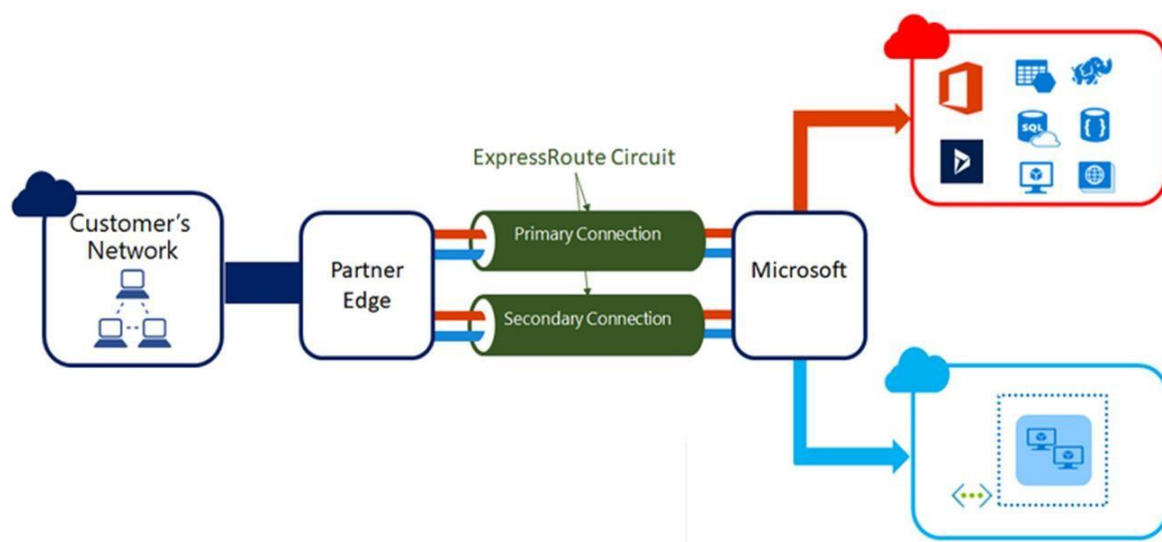
AttariClasses



EXPRESSROUTE

- Creates a private connection between on-premises and Azure Cloud
- You will need a connectivity provider like TATA
- Connects directly to your WAN
- Express Route connections do not use the public Internet
- They are more reliable, fast(low latency) and highly secure
- You can choose bandwidth from 50Mbps to 10Gbps

AttariClasses



ExpressRoute SKU

- Local → Gives you access to azure region in same metro as peering site
- Standard → Gives you access to all Azure regions in a geopolitical area
- Premium → Give you access to all Azure regions globally.

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-locations>

| Geopolitical region | Azure regions | ExpressRoute locations |
|----------------------|--|---|
| Australia Government | Australia Central, Australia Central 2 | Canberra, Canberra2 |
| Europe | France Central, France South, Germany North, Germany West Central, North Europe, Norway East, Norway West, Switzerland North, Switzerland West, UK West, UK South, West Europe | Amsterdam, Amsterdam2, Berlin, Copenhagen, Dublin, Dublin2, Frankfurt, Frankfurt2, Geneva, London, London2, Madrid, Marseille, Milan, Munich, Newport(Wales), Oslo, Paris, Stavanger, Stockholm, Zurich |
| North America | East US, West US, East US 2, West US 2, West US 3, Central US, South Central US, North Central US, West Central US, Canada Central, Canada East | Atlanta, Chicago, Chicago2, Dallas, Denver, Las Vegas, Los Angeles, Los Angeles2, Miami, Minneapolis, Montreal, New York, Phoenix, Quebec City, Queretaro(Mexico), Quincy, San Antonio, Seattle, Silicon Valley, Silicon Valley2, Toronto, Toronto2, Vancouver, Washington DC, Washington DC2 |
| Asia | East Asia, Southeast Asia | Bangkok, Hong Kong, Hong Kong2, Jakarta, Kuala Lumpur, Singapore, Singapore2, Taipei |
| India | India West, India Central, India South | Chennai, Chennai2, Mumbai, Mumbai2, Pune |
| Japan | Japan West, Japan East | Osaka, Tokyo, Tokyo2 |

VPN

```
config vpn ipsec phase1-interface
edit "ToAzure"
    set interface "port1"
    set ike-version 2
    set keylife 28800
    set peertype any
    set net-device disable
    set proposal aes256-sha1 3des-sha1 aes256-sha256
    set dpd on-idle
    set dhgrp 2
    set nattraversal disable
    set remote-gw 13.90.40.76
    set psksecret Azure#123456
next
end
config vpn ipsec phase2-interface
edit "ToAzure"
    set phase1name "ToAzure"
    set proposal aes256-sha1 3des-sha1 aes256-sha256
    set pfs disable
    set replay disable
    set keylifeseconds 2700
next
end

config firewall policy
edit 1
    set name "To-Azure"
    set srcintf "port2"
    set dstintf "ToAzure"
    set srcaddr "all"
    set dstaddr "all"
    set action accept
    set schedule "always"
    set service "ALL"
next
edit 2
    set name "FromAzure"
    set srcintf "ToAzure"
    set dstintf "port2"
    set srcaddr "all"
    set dstaddr "all"
    set action accept
    set schedule "always"
    set service "ALL"
next
end
```

```
config router static
edit 4
    set dst 192.168.0.0 255.255.0.0
    set distance 2
    set device "ToAzure"
next
end
```


END