Configuring ExpressRoute and Azure Virtual WAN



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Overview



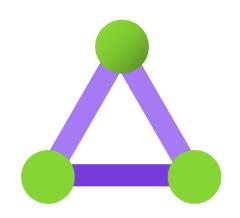
Configure ExpressRoute
Configure Azure Virtual WAN



Azure ExpressRoute



Azure ExpressRoute



Private, unencrypted connection to Microsoft cloud services that bypasses the public Internet

Link speeds from 50 Mbps to 10 Gbps

- 100 Mbps for ER Direct

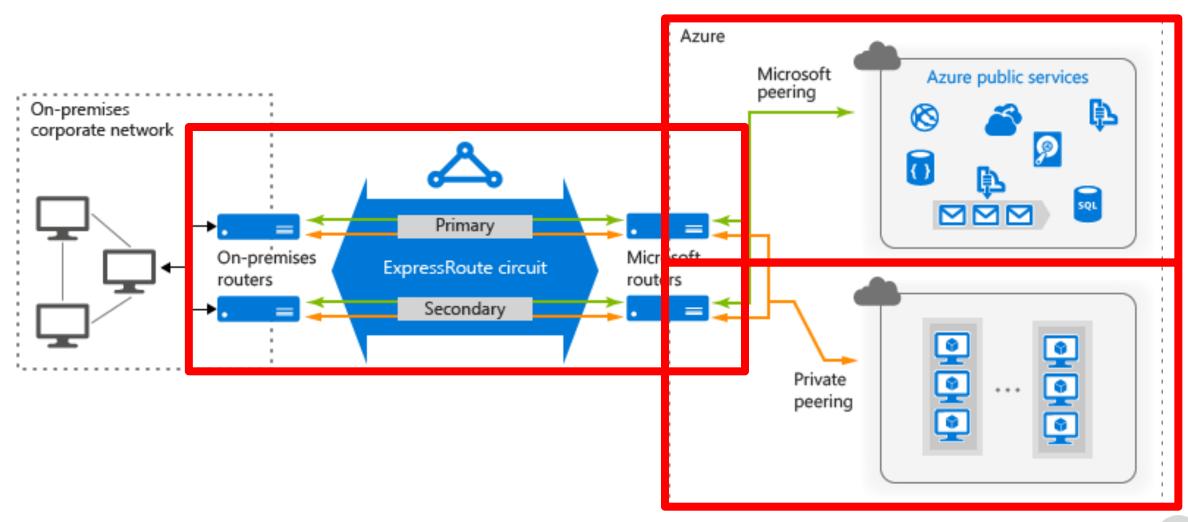
Dual routers required for HA SLA

Metered or unlimited data transfer

Premium add-on: Global connectivity

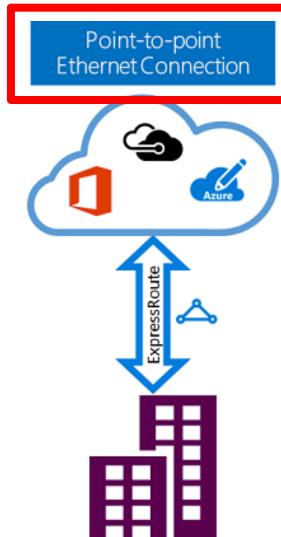


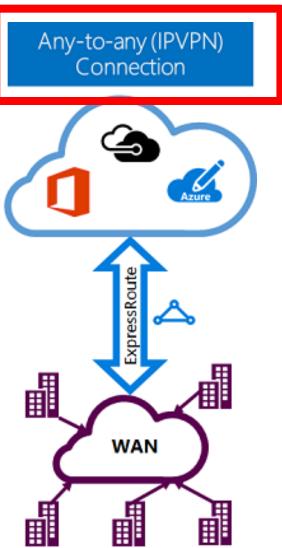
ExpressRoute Architecture



ExpressRoute Connectivity Models

Cloud Exchange Colocation







Azure Service Comparison

S2S VPN

Encrypted channel

Budget

Simpler deployment

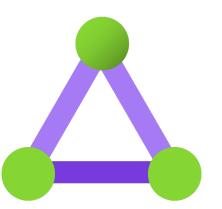
ExpressRoute

Bypass the Internet

LAN speeds (although VpnGw5 is 10 Gbps)

More predictable network speeds





Demo



Examine ExpressRoute pricing page
Search connectivity providers



Azure Virtual WAN



Azure Virtual WAN



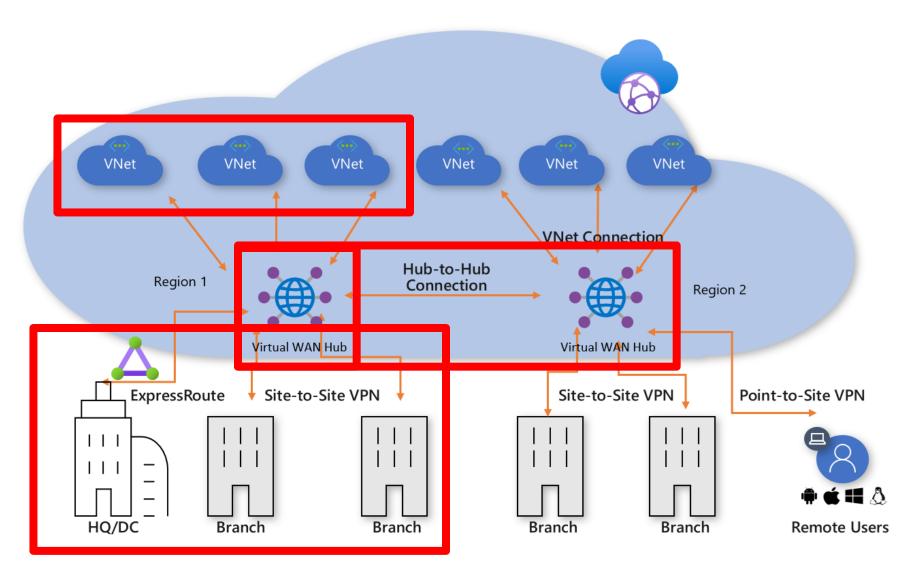
Microsoft-managed, transitive, routed VNet hub-and-spoke architecture

Like Front Door, Virtual WAN is a roll-up/abstraction that consists of:

- VNet peering
- All Azure VPN types
- ExpressRoute
- Azure Firewall
- User-defined routing

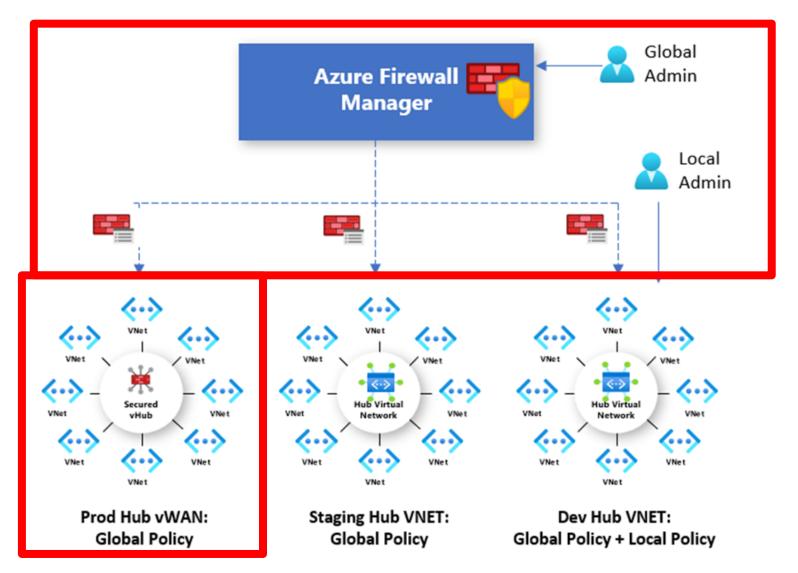


Azure Virtual WAN Architecture





Secured Virtual Hub





Demo



2

Virtual WAN

- VPN gateway
- Vnet peering



Summary



An Azure trend is this "rollup/abstraction" model to make networking easier for businesses

Shared responsibility model

Thanks!

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