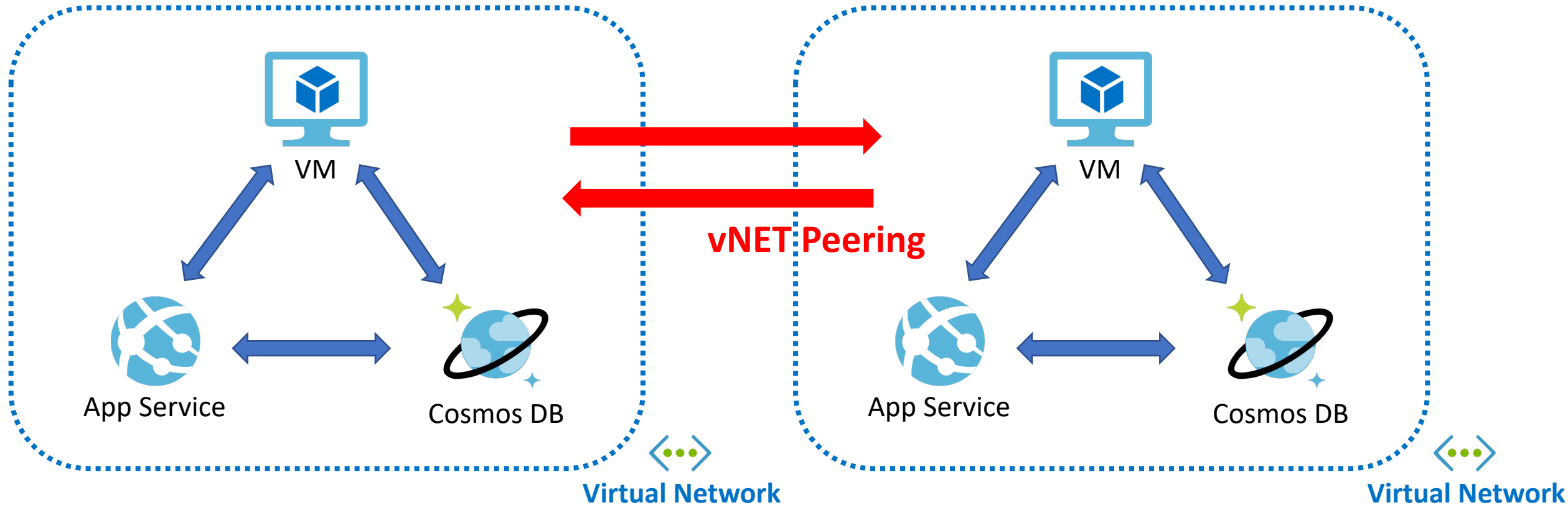


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Azure ExpressRoute Fundamentals 101

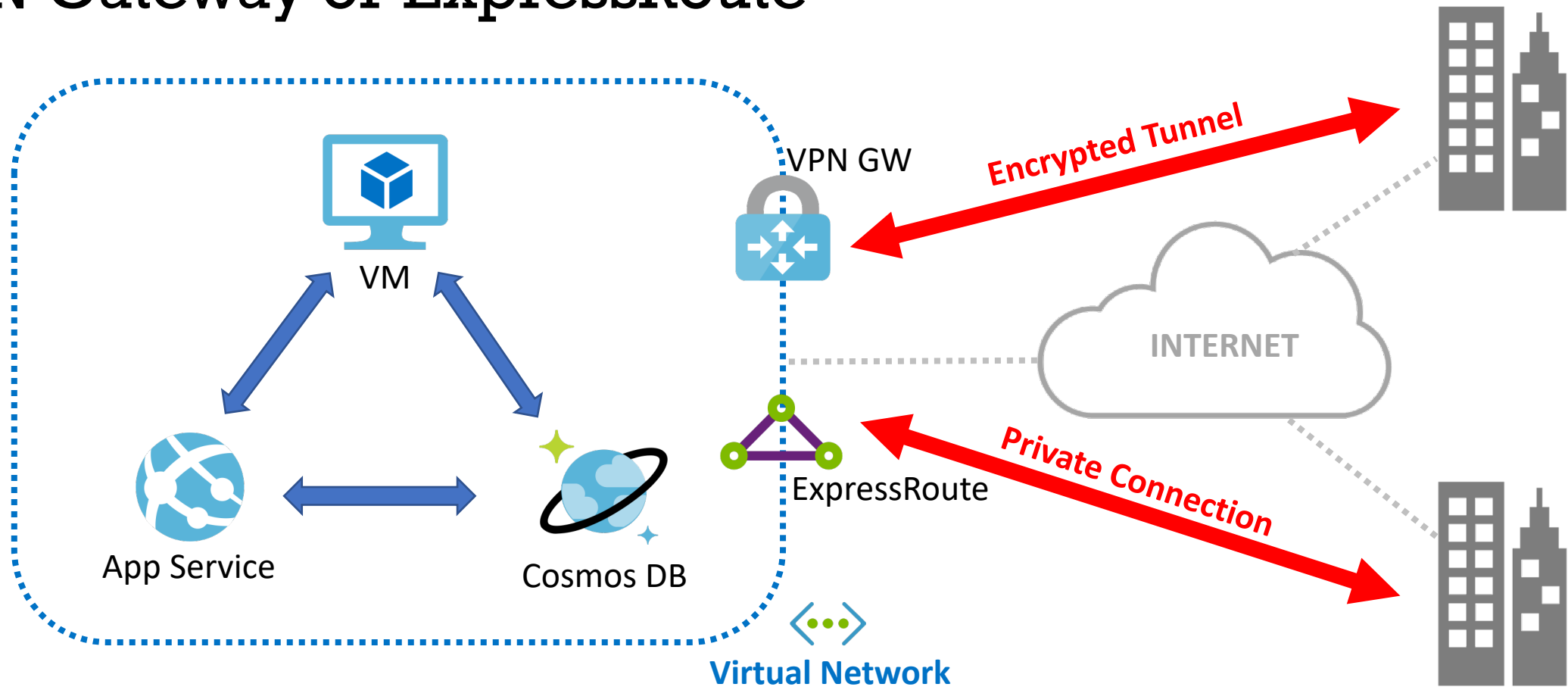
Azure Connectivity Services – vNET Peering

- ❑ Communicate between each other, within the same or different Azure Regions



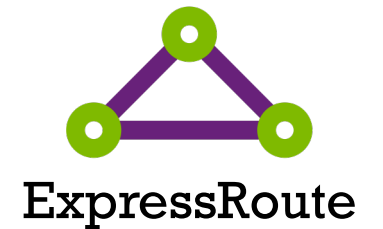
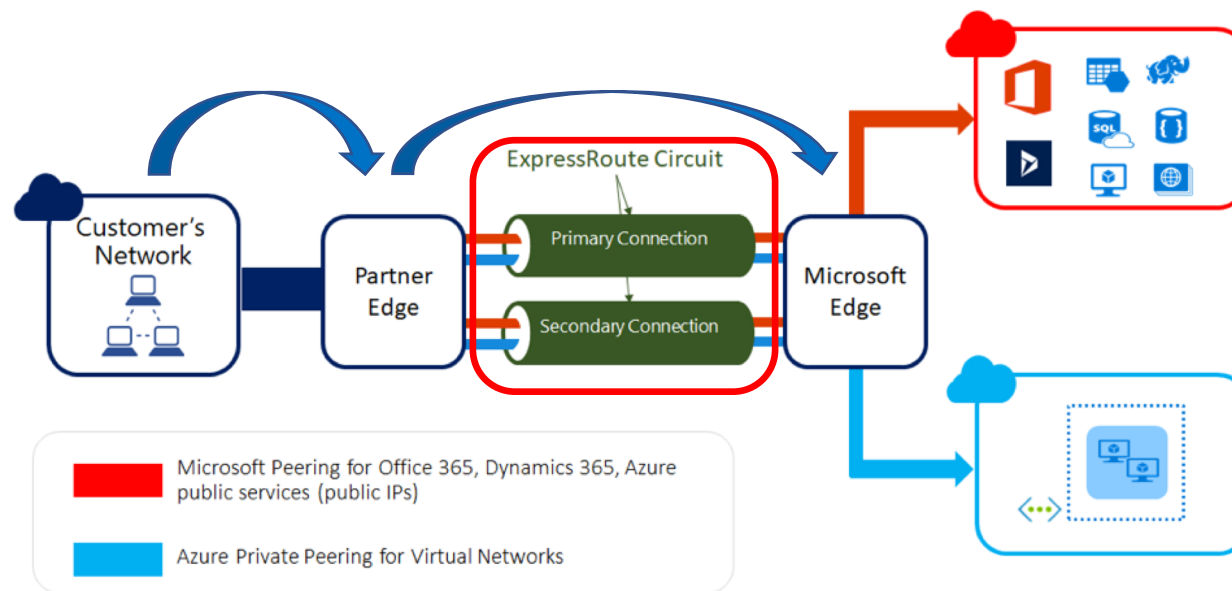
Azure Connectivity Services – On-Prem DC

- ❑ Connect your on-premises network to a virtual network using VPN Gateway or ExpressRoute



Azure ExpressRoute Overview

- ❑ Azure ExpressRoute lets you extend your on-premises networks into the Microsoft cloud over a private connection facilitated by a *connectivity provider*



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

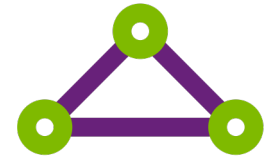
ExpressRoute Key Benefits

- ❑ 1. Layer 3 connectivity between on-prem and Azure
- ❑ 2. Dynamic routing via BGP
- ❑ 3. HA support for every peering location
- ❑ 4. Connection uptime SLA
- ❑ 5. Global direct and private connectivity to Azure cloud



ExpressRoute Billing Models

- ❑ Three options are available:
 - ❑ Unlimited data
 - ❑ All in/out data is free of charge
 - ❑ Metered data
 - ❑ In is free, out is charged
 - ❑ Premium add-on
 - ❑ More capabilities included: more routes allowed, global connectivity services



ExpressRoute

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Thank you