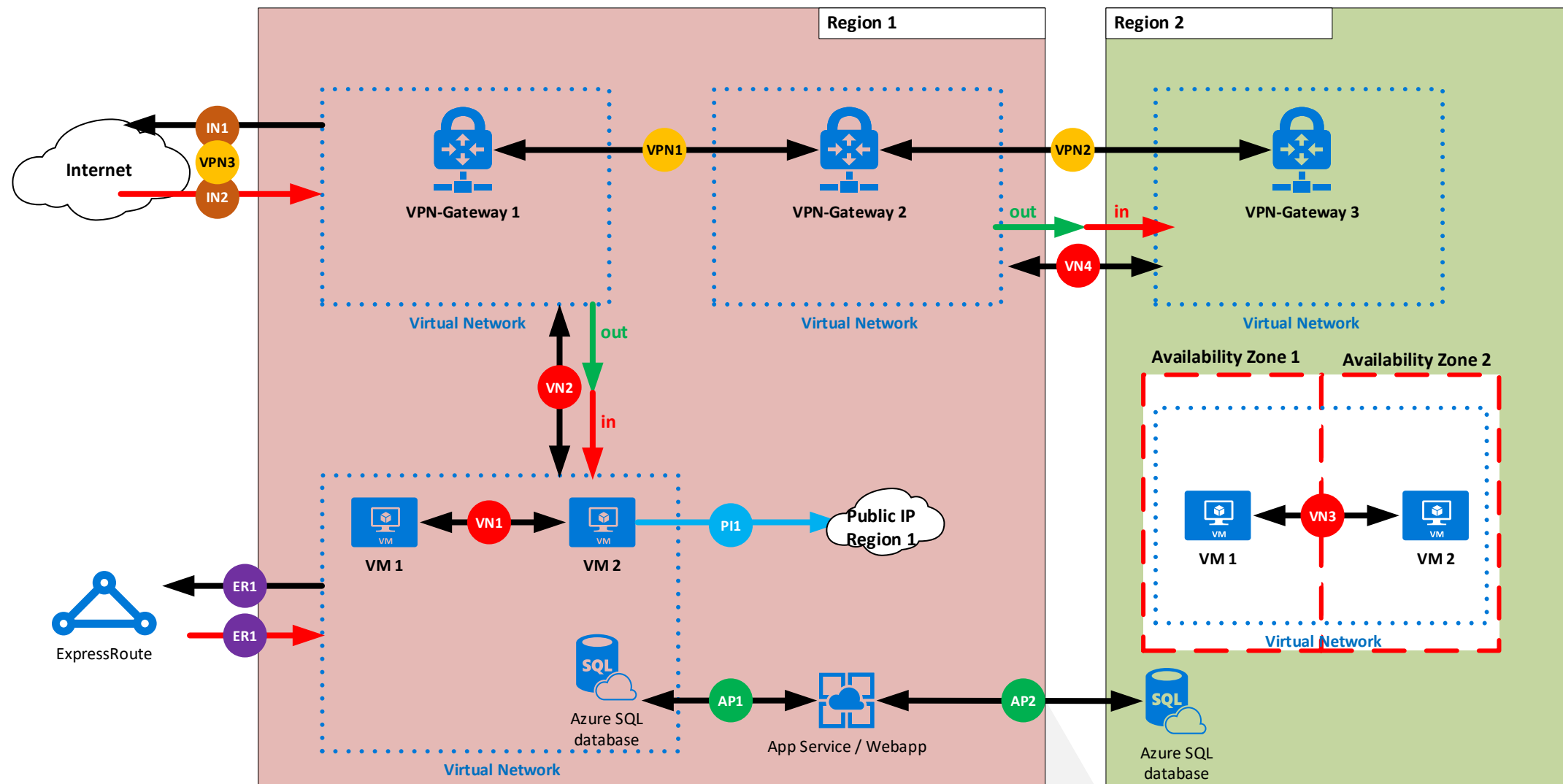


Azure Networking Costs Cheat Sheet



Resources:

Azure Bandwidth

<https://azure.microsoft.com/en-us/pricing/details/bandwidth/>

Azure Virtual Network Peering

<https://azure.microsoft.com/en-us/pricing/details/virtual-network/>

Azure VPN Gateway

<https://azure.microsoft.com/en-us/pricing/details/vpn-gateway/>

Azure Express Route

<https://azure.microsoft.com/en-us/pricing/details/expressroute/>

- VN1 Intra-vNET**
Traffic within the same vNet is free. E.g. the traffic between VM1 and VM2 is free
- VN2 Inter-vNET**
Incoming and outgoing traffic between two vNet within the same region will be charged at vNet peering cost. Incoming and outgoing costs are charged separately
- VN3 Intra-vNET (with Availability Zone)**
From February 2021 onwards, data traffic within a vNet distributed over availability zones will be charged at vNet peering costs.
- VN4 Inter-vNET (Global)**
Incoming and outgoing traffic between two vNet in different regions is charged at vNet peering costs. Different prices apply depending on the zone.
- AP1 Intra-Region Azure Services**
Data traffic between services e.g. Azure SQL database and App Service within the same zone is free of charge and even never leaves the MS backbone, even though communication happens over Public IP
- AP2 Inter-Region Azure Services**
Traffic between services e.g. Azure SQL database and App Service between different zones is subject to charges and is charged at "Azure Bandwidth Costs" and even never leaves the MS backbone, even though communication happens over Public IP
- IN1 IN2 Incoming / outgoing data transfer (from Azure DC point of view)**
Traffic is charged at "Azure bandwidth costs". Incoming data transfer is free of charge, outgoing data transfer is charged after the first 5 GB/month, outgoing traffic to the Azure Content Delivery Network (CDN) is free of charge
- VPN1 VPN GW to VPN GW (in same zone)**
Traffic between two vNets via VPN gateways within the same zone is free (VPN GW costs still apply), except for P2S traffic which is charged, outgoing traffic is charged at "Azure bandwidth costs"
- VPN2 VPN GW to VPN GW (in different zones in Azure Datacenter)**
Outgoing data traffic between two VPN gateways between different zones is subject to a charge, incoming traffic is free of charge. Special prices, cheaper than "Azure bandwidth costs", because data traffic never leaves MS Backbone.
- VPN3 VPN GW to NON Azure destination (via Internet)**
Outgoing data traffic from a VPN gateway via the Internet is subject to a charge and is billed at "Azure bandwidth costs", incoming data traffic is free of charge.
- ER1 ER2 Expressroute (metered data plan)**
All incoming data transmissions are free of charge, outgoing data transmissions are subject to different pre-defined charges depending on the zone. Users are also charged a fixed monthly port fee (based on two ports for high availability). In addition, the Expressroute provider (e.g. Swisscom) must be paid monthly fees.
- ER1 ER2 Expressroute (unlimited data plan)**
There are no additional fees for incoming and outgoing data transfers. Users are charged a fixed monthly port fee (based on two ports for high availability). In addition, the Expressroute provider (e.g. Swisscom) must be paid monthly fees.
- PI1 Public IP**
Traffic between Azure resources and a Public IP address in the same zone is free, the traffic never leaves the MS backbone.