

Virtual Networks MS Azure AZ-700 Cheat Sheet

by Termo via cheatography.com/188474/cs/39330/

VNet	
VNet Communication Ways	VNets
	VNet Service Points
	VNet Peering
VNet Connect On-Premises	P2S VPN
	S2S VPN
	Azure Express Route
Routing Network Traffic	UDR or BGP

Subnetting	
smallest allowed	/29
largest allowed	/2
IPv6	must be /64

VNet Addressing	
RFC1918	Private
224.0.0.0/4	Multicast
255.255.255.255/32	Broadcast
127.0.0.1/8	Loopback
169.254.0.0/16	Link-Local
168.63.129.16/32	Internal DNS
4 IP addresses reserved	.1 Gateway, .2 .3 Azure DNS, .255 Broadcast

On-Premises DNS with	Azure VNets
VNet can connect to ex	kternal DNS
Forwarding:	
Forwarding	specifies another DNS server (SOA for zone)
Conditional forwarding	specify DNS server for specific zone

Child Domains		
delegate sub	domain to Azure DNS	
same process as standard delegation		
NS records n	nust be created in parent zone rather than registrar	
parent and ch	nild zones can be in different RG	
Record Set	collection of records in a zone, same name 'n type	
	cannot contain identical records	
	empty records possible	
	CNAME can contain one record at most	

Delegate DNS Domains
Azure DNS name servers assigned from a pool
NS records to be updated in parent domain to point to Azure DNS name server
always use all 4 Azure name server names

SKU public i	p addresses	
Public IP Address	Standard	Basic
Allocation method	Static	IPv4: Sta/Dyn IPv6: Dyn
Idle Timeout	4-30 min (4 default) inboud, 4 min outbound	4-30 min (4 default) inbound, 4 min outbound
Security	Allow traffic w NSG, Secure by default	Open by default, NSG optional
Availability Zones	supp: non-zonal, zonal, zone-redundant (3 zones only)	Not supported
Routing preference	supported for granular traffic control	Not supported
Global Tier	Support via cross-region LB	Not supported

VNet Peering Types	
Regional VNet-P- eering	connect in same region
Global VNet-Pering	connect in different regions, all regions possible

VNet Default Routes	
Address prefixes	Next hop type
Unique to the virtual network	Virtual network
0.0.0.0/0	Internet
10.0.0.0/8	None (dropped)
192.168.0.0/16	None (dropped)
100.64.0.0/10	None (dropped)



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VNet Original Default Routes			
Source	Address Prefix	Next hop type	Subnet within virtual network that route is added to
Default	unique to virutal network	VNet peering	All
Virtual network gateway	on-prem prefixes adv via BGP	Virtual network gateway	All
Default	Multiple	VirtualNetwo- rkService- Endpoint	only subnet service endpoint is enabled for

Regions and Subscriptions

Resource can only be in same region subscription as VNet it's created in

VNets in different regions, subscription can be connected

Subscriptions have a VNet limit

DNS - public considerations

zone name must be unique in RG, zone must not exist already
zone name can be reused in RG and different subscriptions
different name server addresses when same zone name used
multiple times
root/parent domain registered at registrar, points to Azure NS

child domains in Azure DNS registered

DNS - public

use Azure DNS (uses anycast)

DNS entries created manually in zones (A/AAAA/CNAME)

no custom DNS needed, DNS zone must be created, each DNS entry created in that zone

Private DNS Services	
3 methods	Azure DNS Private Zones
	Azure-provided name resolution
	Name resolution with own DNS server
Access recursive resolvers	via 169.63.129.16

Azure provided DNS		
created with V	Net	
Azure default internal DNS zone		
.internal.cloudapp.net		
resource name gets registered		
Limits	no resolution across VNets	
	resource name	
	no manual creation	

Azure Private DNS Zone		
capabilities	configure name for DNS zone	
	manual record creation	
	resolve across zones and VNets	
	provide PTR, MX, SOA, service/text records	
Registration	VNet link to one private Zone	
Resolution	VNet can link to 1000 pvirate DNS zones	

Public IP Adresses - Static/Dynamic		
Available Resources	VM NICs	
	VM Scale Sets	
	Public LB	
	Virtual Network Gateways	
	NAT Gateways	
	Application Gateways	
	Azure Firewall	
	Bastion Host	
	Route Server	
Each region has own pool of public ip addresses		

Availability Zones - Service Categrories		
Zonal Services	resources pinned to specific zone	
	VMs, Managed Disks, Standard IP Addresses	
Zone-Redundant Services	resources replicated/distributed across zones autom.	
Non-regional Services	Services always available from Azure Geos	
	resilient to zone and region-wide outages	



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VNet Gatewaytransit and Connectivity

VPN Gateway as transit point

Remote gateway to access other resources

VNet can have only one gateway

Subnetzgateway

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S2S VPN

capabilities

VNet-to-VNet

P2S VPN

VNets can use a gateway, only one needed

Service chaining VNet connect to NVA (network virtual

appliance)

VNet can be in different subscription

UDRs will be created



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