

Configuring the Azure DNS Service



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Overview



Configure Azure DNS

- Public zone
- Private zone



Azure DNS Service



Azure DNS



**Cloud-based Domain Name System (DNS)
hosting service**

Supports public and private zones

**Enables name resolution between Azure
virtual networks**



What Azure DNS Can and Cannot Do

Can Do

Host public and private domains

Delegate a domain from another host

Integrate with Azure Resource Manager features (geo-availability (100 percent SLA), RBAC, tags, locks, monitoring)

Create alias record for domain name apex with Traffic Manager

Cannot Do

Buy a public domain name

App Service domains

Enable DNSSEC

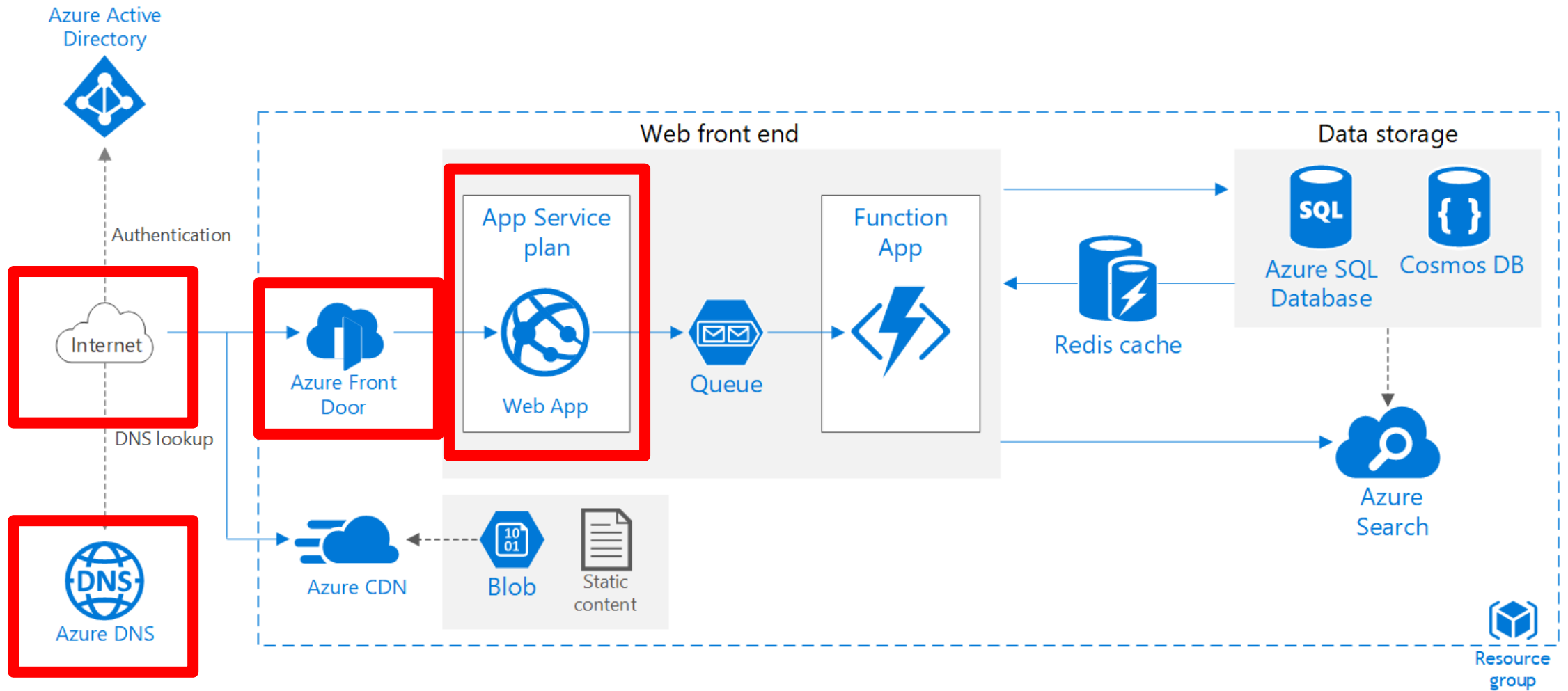
Support zone transfers



Public Zones



Azure DNS Typical Use Case



Demo



1

Delegate a public zone into Azure DNS

- <https://docs.microsoft.com/en-us/azure/dns/dns-delegate-domain-azure-dns>

Create child zone

- <https://docs.microsoft.com/en-us/azure/dns/tutorial-public-dns-zones-child>

Alias record for Traffic Manager

- <https://docs.microsoft.com/en-us/azure/dns/tutorial-alias-tm>



Private Zones



Name Resolution Problems to Solve

**Need for custom
domain in VNet**

**Need for FQDN
resolution**

**Need for inter-
VNet name
resolution**

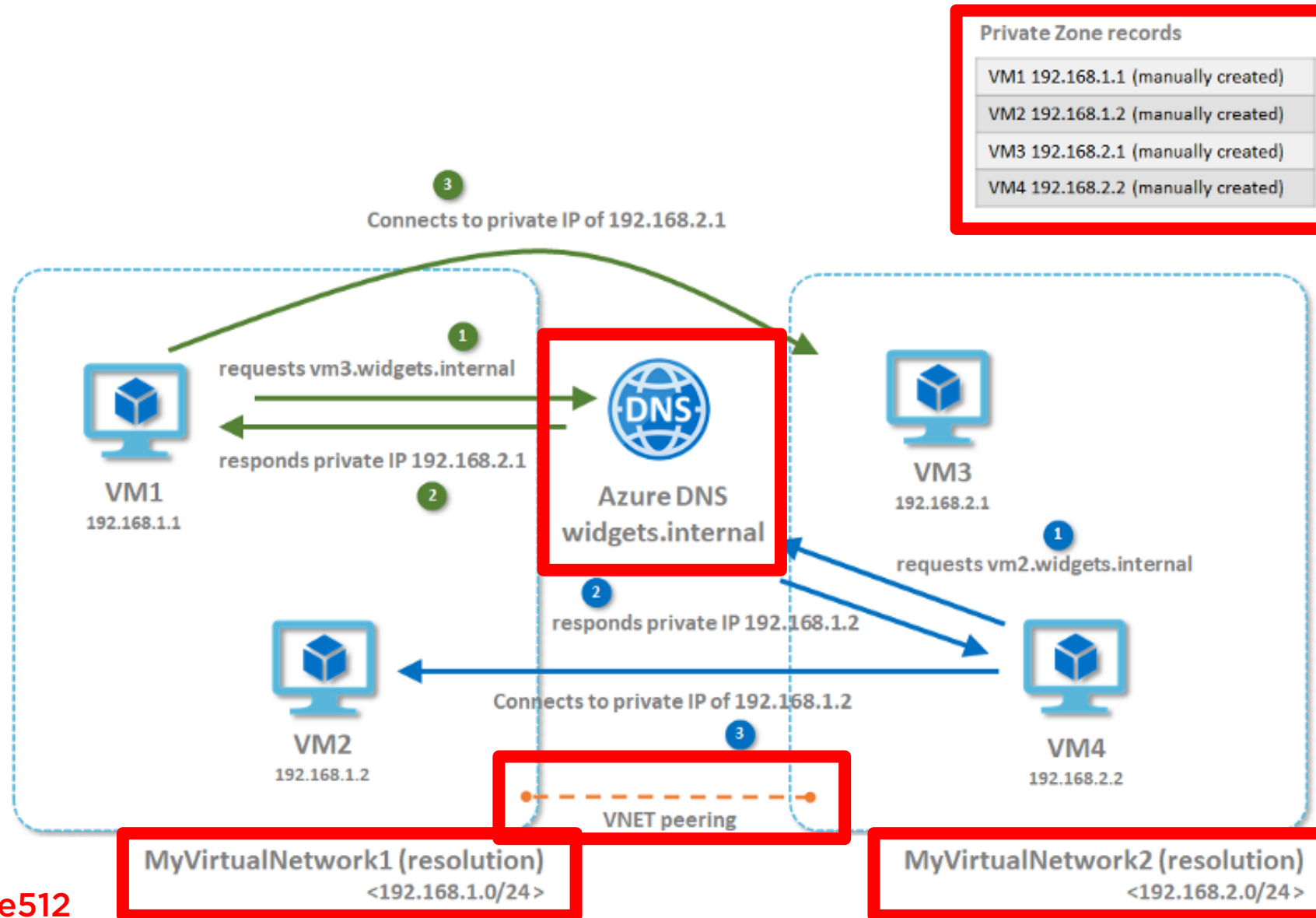
**Need for Private
Link name
resolution**

**Need to avoid
hosting DNS
server VMs**

**Need for
simplicity**



Azure DNS Private Zone Architecture



```
$zone = New-AzPrivateDnsZone -Name 'private.ps.com' `
    -ResourceGroupName 'pluralsight-rg'

$link = New-AzPrivateDnsVirtualNetworkLink -ZoneName 'private.ps.com' `
    -ResourceGroupName 'pluralsight-rg' -Name 'hub-vnet' `
    -VirtualNetworkId $vnet.id -EnableRegistration
```

Azure PowerShell



```
az network private-dns zone create -g pluralsight-rg -n private.ps.com
```

```
az network private-dns link vnet create -g pluralsight-rg -n MyDNSLink \  
-z private.ps.com -v spoke-vnet -e true
```

Azure CLI



Demo



2

Link two VNets with a private zone

- Test VNet/NIC DNS servers list

Add a storage account via Private Link



Summary



Like most Azure services, Azure DNS is a work in progress

Remember for maximum control you can always host your own DNS servers

Thanks so much!

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