

Microsoft Azure Administrator: Configure Name Resolution

CONFIGURE NAME RESOLUTION FOR AN
AZURE VIRTUAL NETWORK



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Overview
















Understand this course

Describe Azure-provided name resolution

Configure custom DNS settings



Exercise Files



What do you want to learn?

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Troubleshooting with Microsoft Azure Network Watcher

by Tim Warner

Microsoft now gives you packet-level access to your Windows Server and Linux virtual machines (VMs) running in Azure. You'll learn how to use Network Watcher to troubleshoot network security groups (NSGs), perform packet captures, and much more.

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Learning Check

Recommended

These exercise files are intended to provide you with the assets you need to create a video-based hands-on experience. With the exercise files, you can follow along with the author and re-create the same solution on your computer. We find this to be even more effective than written lab exercises.

[Download exercise files](#)

Course author

**Tim Warner**

Timothy Warner is a Microsoft Most Valuable Professional (MVP) in Cloud and Datacenter Management who is based in Nashville, TN.

Course info

Level	Intermediate
Rating	★★★★★
My rating	★★★★★
Duration	2h 12m
Released	31 Oct 2017

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Exercise Files

The screenshot displays a Windows desktop environment with three overlapping windows:

- File Explorer (Left):** Shows the 'Downloads' folder. A list of files is visible, including folders named 02, 03, 04, 05, and 06. The status bar at the bottom indicates '0 / 5 object(s) selected'.
- Text Editor (Center):** A Notepad window titled 'microsoft-azure-ad-privileged-identity-management-configuring-m4-links.txt'. It contains a list of 22 numbered items, each consisting of a title and a URL. The text is as follows:

```
1 Module 4: Organize and Perform Azure AD PIM Access Reviews
2
3 Microsoft Azure
4 https://azure.microsoft.com/en-us/
5
6 Azure Documentation
7 https://docs.microsoft.com/en-us/azure/
8
9 Azure AD Privileged Identity Management (PIM) documentation | Microsoft Docs
10 https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/
11
12 Identity Governance - Azure Active Directory | Microsoft Docs
13 https://docs.microsoft.com/en-us/azure/active-directory/governance/identity-governance-overview
14
15 Create an access review of Azure resource roles in PIM - Azure Active Directory | Microsoft Docs
16 https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-resource-roles-start-access-review
17
18 Review access to Azure AD roles in PIM - Azure Active Directory | Microsoft Docs
19 https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-how-to-perform-security-review
20
21 View audit history for Azure AD roles in PIM - Azure Active Directory | Microsoft Docs
22 https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-how-to-use-audit-log
```

The status bar at the bottom of the text editor shows 'Spaces: 4 UTF-8 CRLF Plain Text'.
- File Download Window (Right):** A small window titled '02\demos\' showing a table with file details. The table has two columns: 'Size' and 'Pac'. The data is as follows:

Size	Pac
1 298	
359	



Understand this Course



Exam AZ-104 OD

Objective Domain

Functional Group

Exam AZ-104: Microsoft Azure Administrator – Skills Measured

Configure and manage virtual networking (30-35%)

Configure name resolution

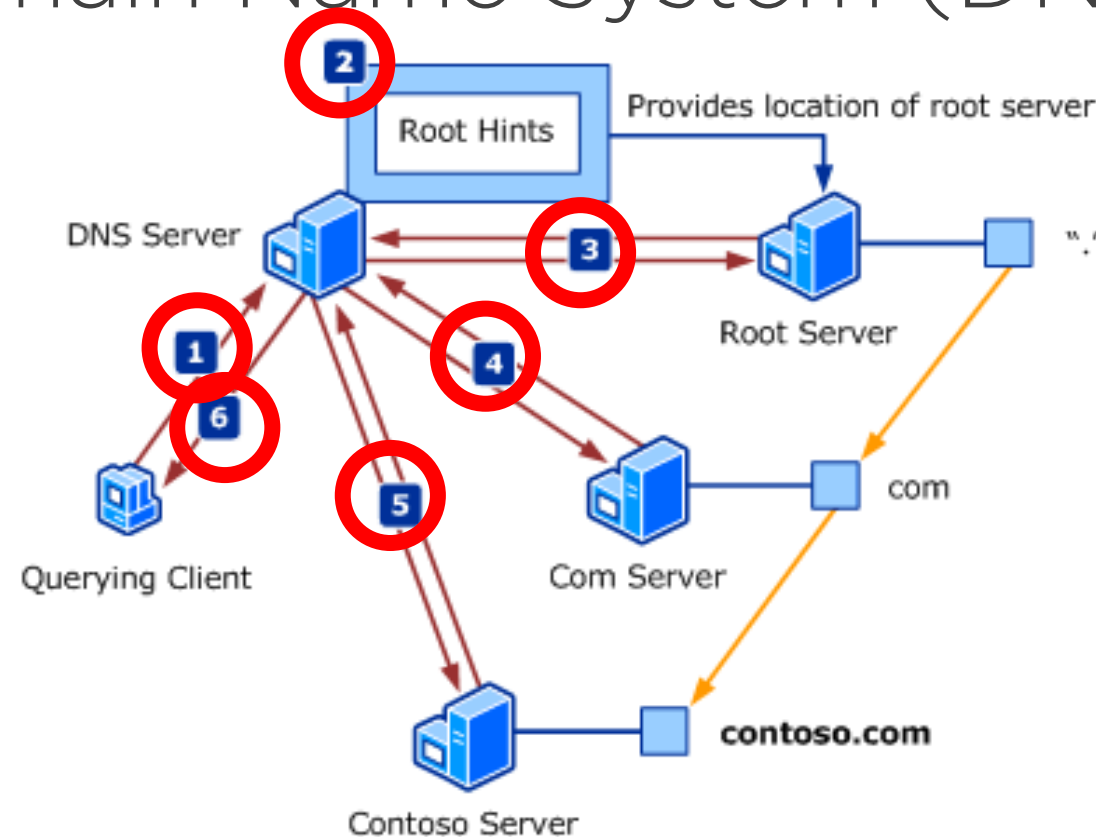
Objective

- configure Azure DNS
- configure custom DNS settings
- configure a private or public DNS zone

Skills



Domain Name System (DNS)



Legend

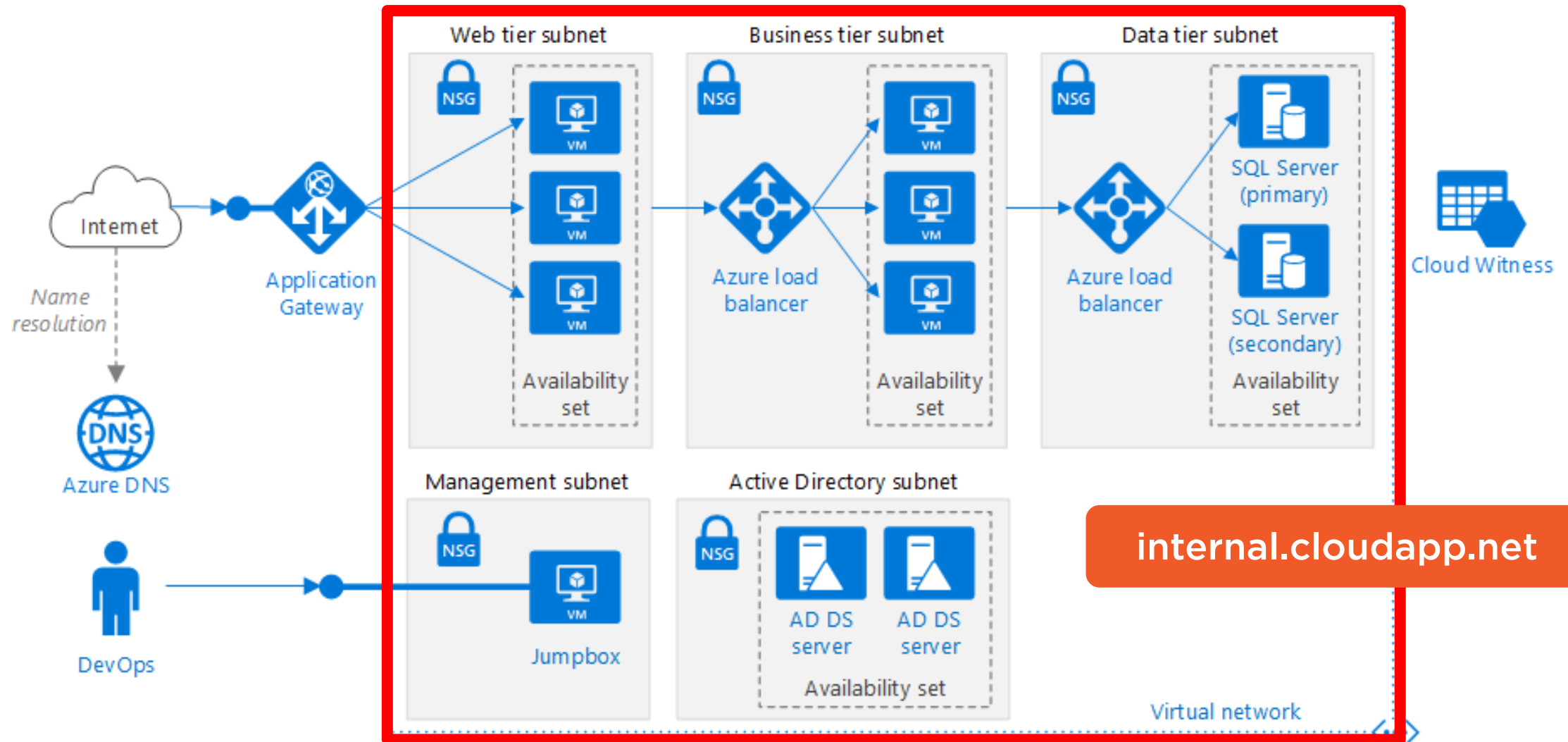
- Zone
- Delegation
- Queries and Responses
- Server Hosts Zone



Configure Azure-Provided Name Resolution



Context: Azure Virtual Network



Azure- Provided Name Resolution



Hostname (single label name) resolution within a single VNet

Advantage: Ease of use/no configuration

Advantage: No more globally unique VM hostnames

***.internal.cloudapp.net**

- Can't modify suffix

WINS and NetBIOS names are not supported

Both A and PTR lookups are supported



Azure Wire
Server:
168.63.129.16



**Enables VM Agent to communicate with
Azure platform**

Intra-VNet name resolution

Azure-provided DHCP



Demo



1

Inspect a VNet

- DNS settings
- VM / NIC DNS settings

`ipconfig /all`

Test connectivity between two VMs on the hub-vnet



Configure Custom DNS Settings



Custom DNS Use Cases

**On-premises
Active Directory**

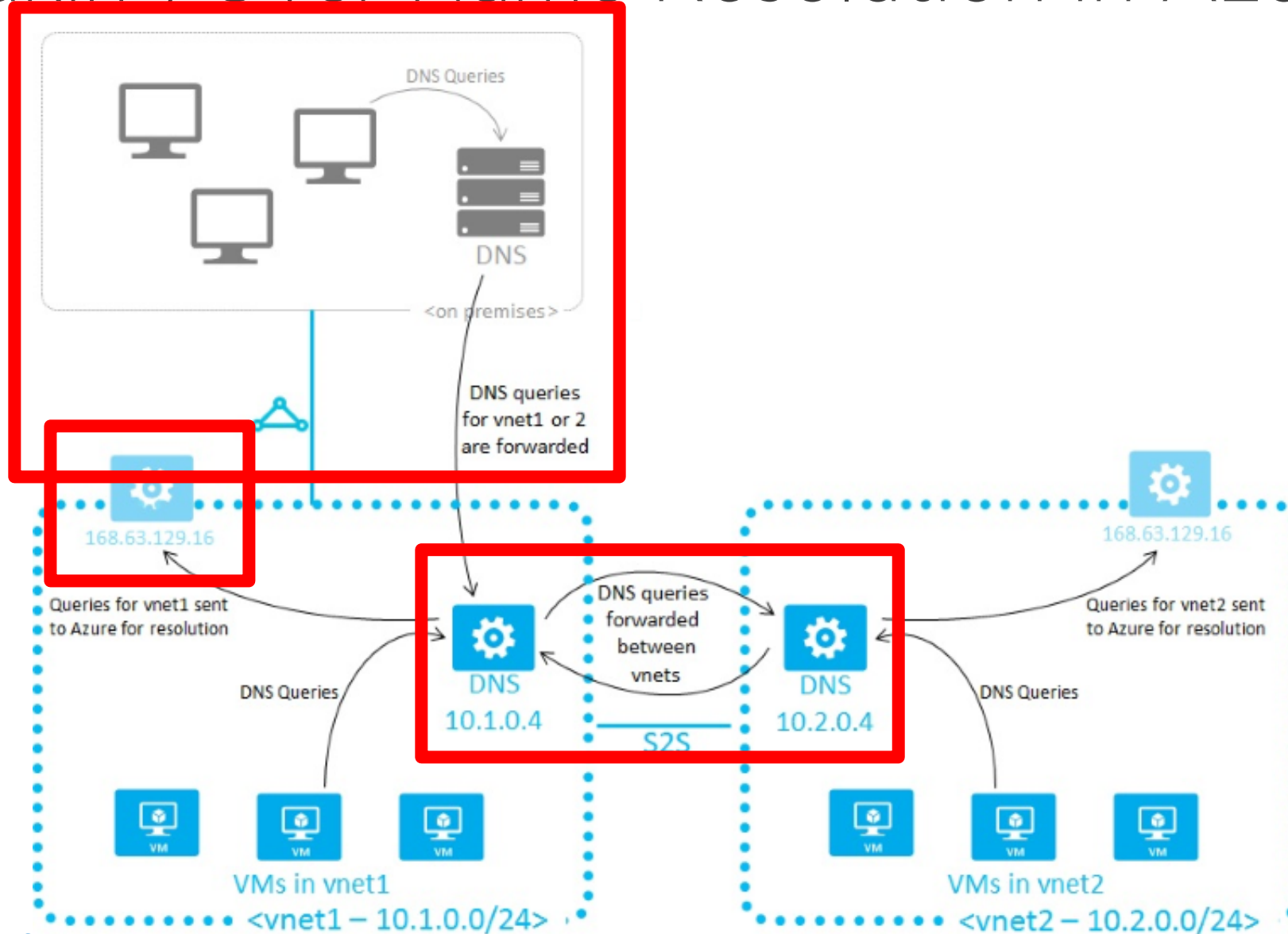
**IaaS Active
Directory**

**Inter-VNet name
resolution**

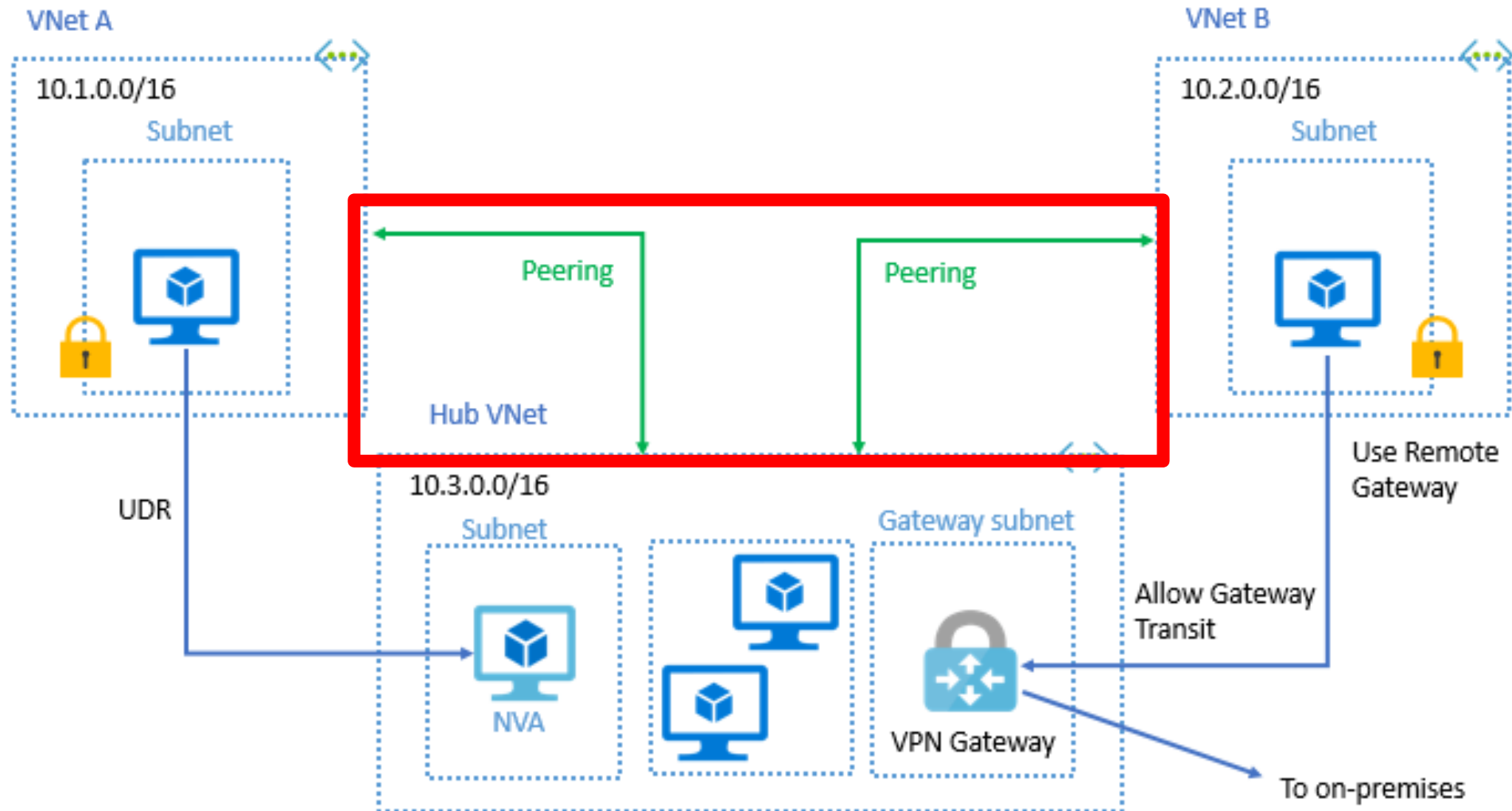
**FQDN name
resolution**



Taking Over Name Resolution in Azure



Virtual Network Peering



Demo



2

Configure tim vm as domain controller /
dns server

Set a custom DNS server

Join another box to the domain



Summary



In VNets, Azure-provided name resolution is quite basic indeed

You need to devise a name resolution strategy for your Vnets

For maximum control, deploy your own DNS servers

Next module: **Configuring the Azure DNS Service**

