



Seamless Cloud Communication: Harnessing Azure DNS Private Resolver

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Agenda

- Introduction
- What is DNS resolution
- How does DNS resolution in Azure work
- Combine Azure with an on-prem environment
- Giveaway question



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Your goals for today (hopefully!)

- Get insight into Azure DNS resolution
- Understand how the Azure Private DNS Resolver work
 - In both Azure only and Hybrid scenarios
- Be able to set up the Azure Private DNS Resolver yourself
 - Don't worry, we'll do it together!

What is DNS resolution

DNS (Domain Name System)

- Address book / phone book

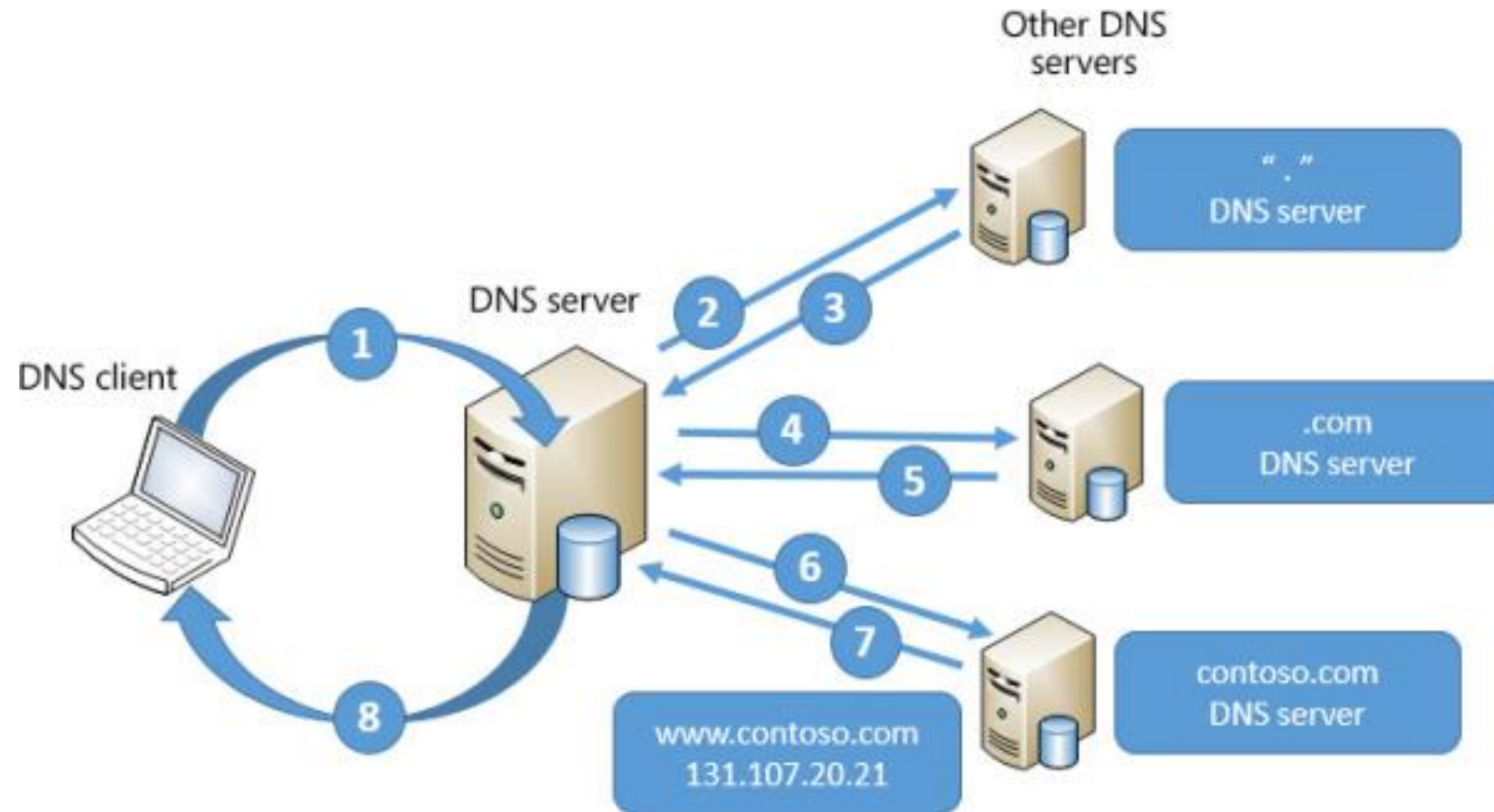
DNS Zones

- Administrative namespace
- Hierarchy
 - . (Root domain)
 - .com
 - azurefreakconfessions.com
 - .be
 - mc2mc.be
 - .nl

DNS Servers

- Authoritative
- Non-Authoritative

How does it work



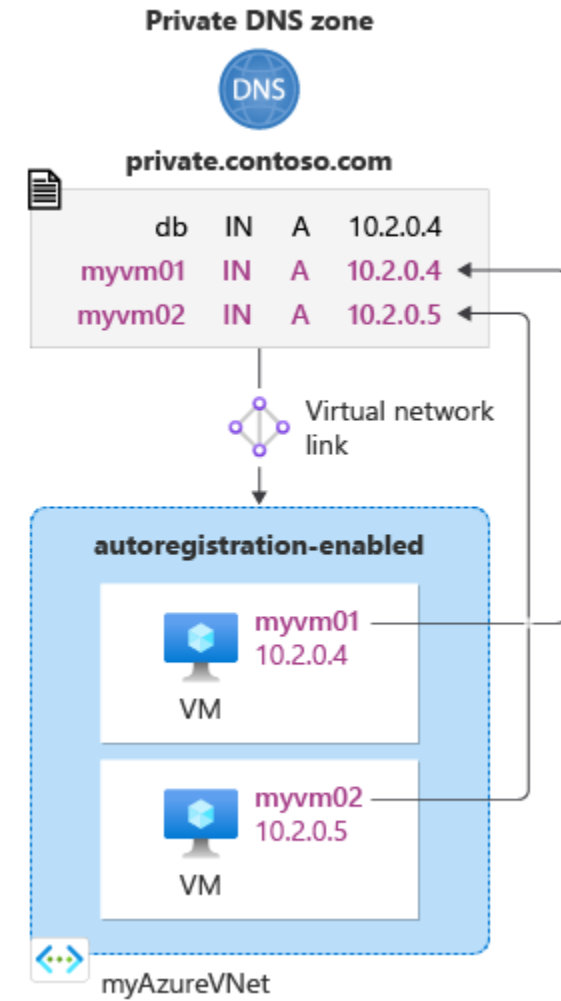
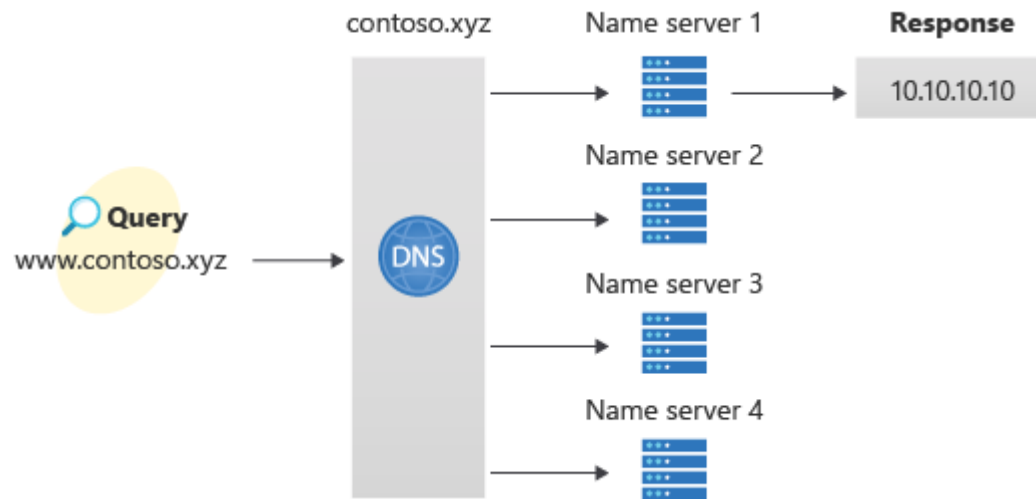
How does DNS resolution in Azure work

Azure DNS Server

- Global service out-of-the-box by Microsoft
- Single IP for all requests

Azure DNS Zones

- Private versus public



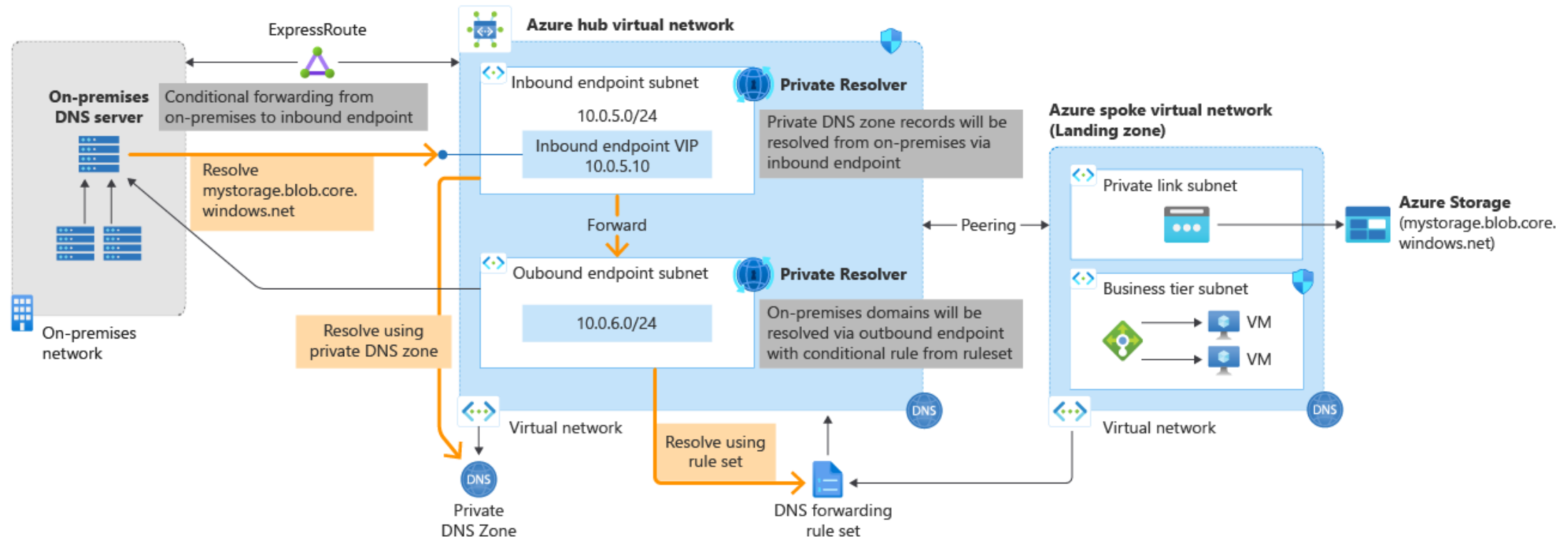
Private DNS Resolver

- General availability since May 2023
- PaaS service

Private DNS Resolver

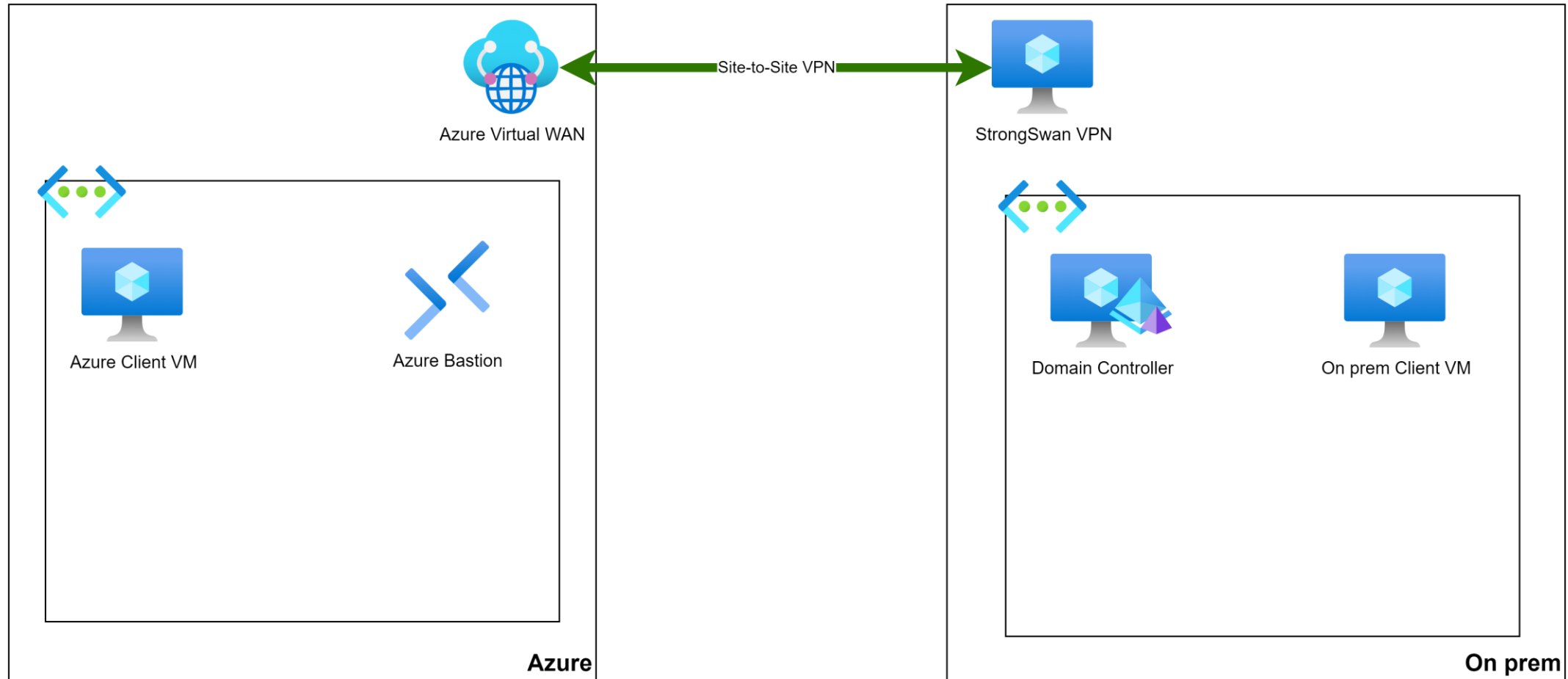
- Inbound endpoint
- Outbound endpoint
- Forwarding rule set

Private DNS Resolver

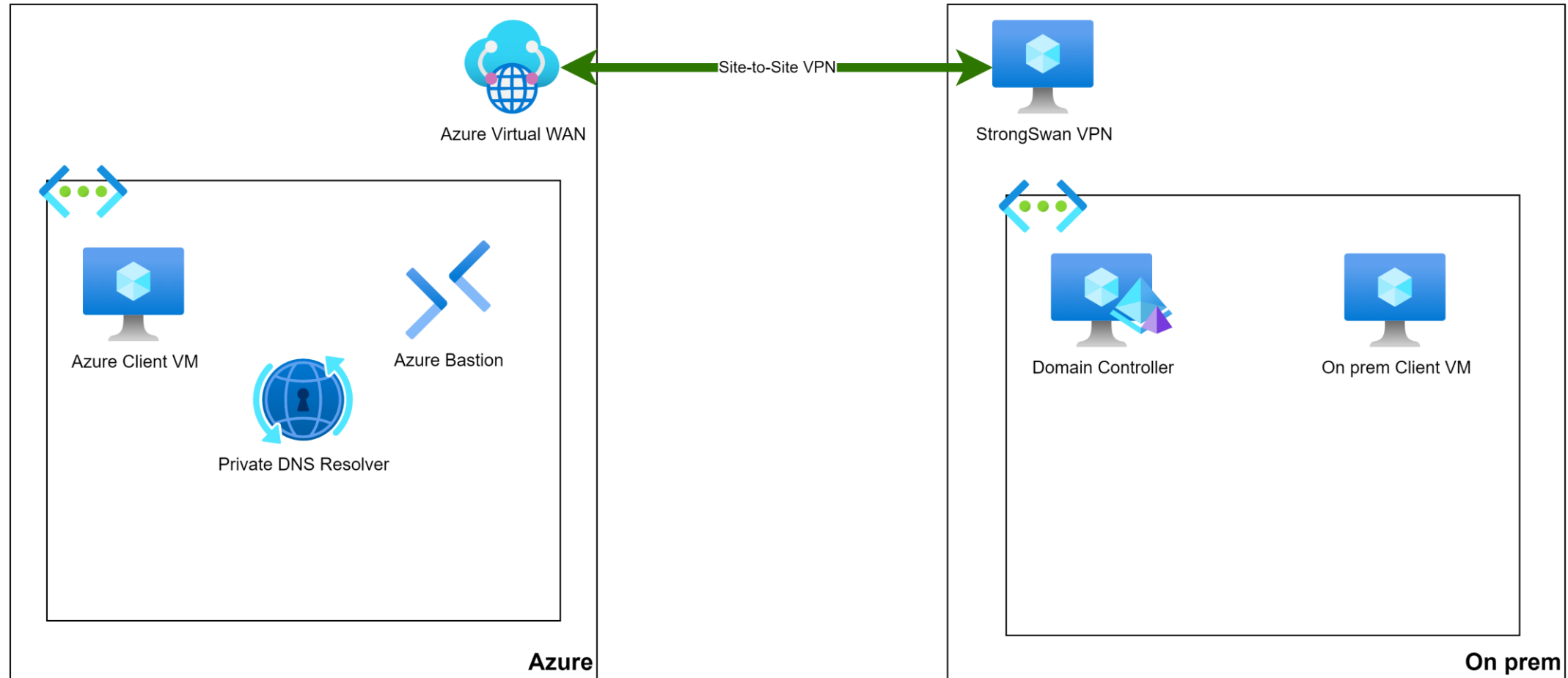


Now let's combine Azure with an
on-prem environment

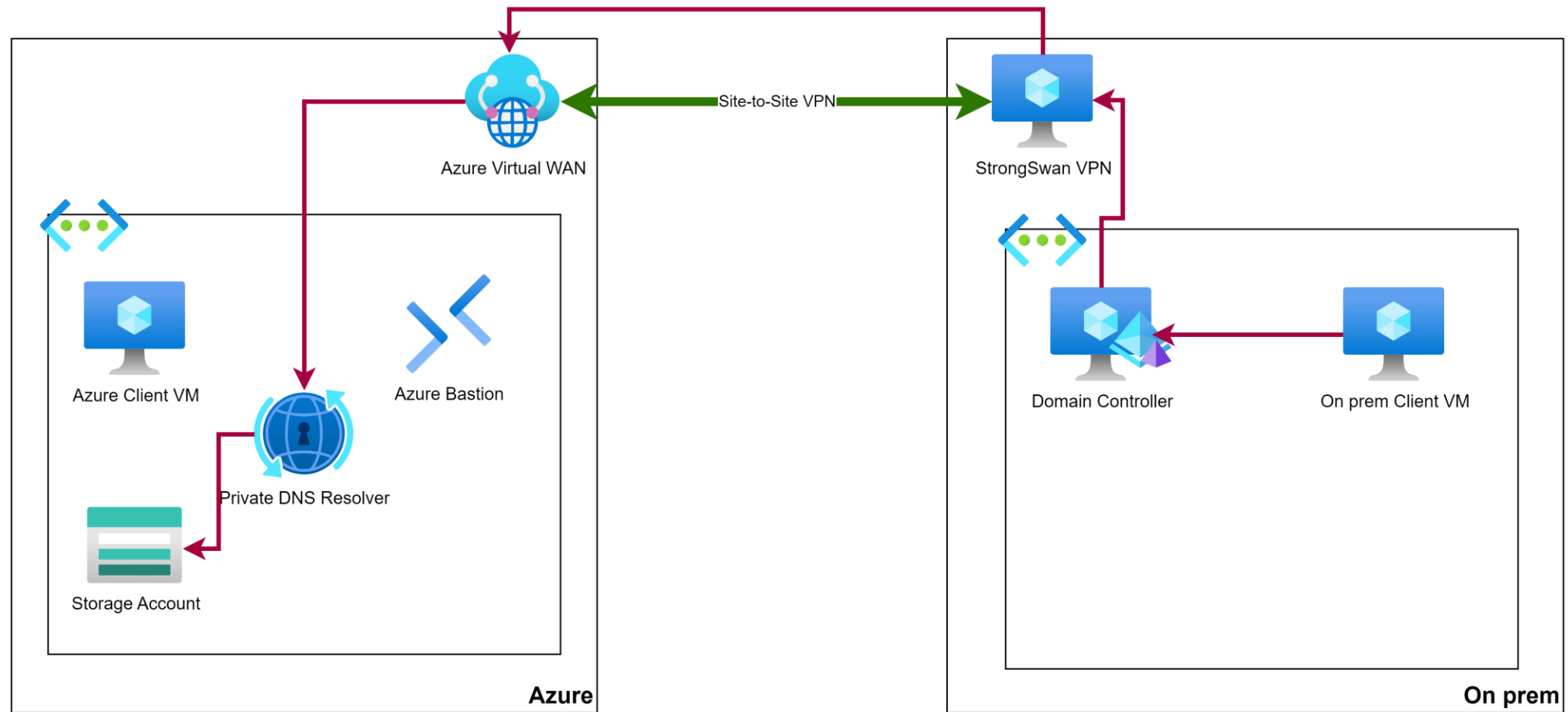
Starting point



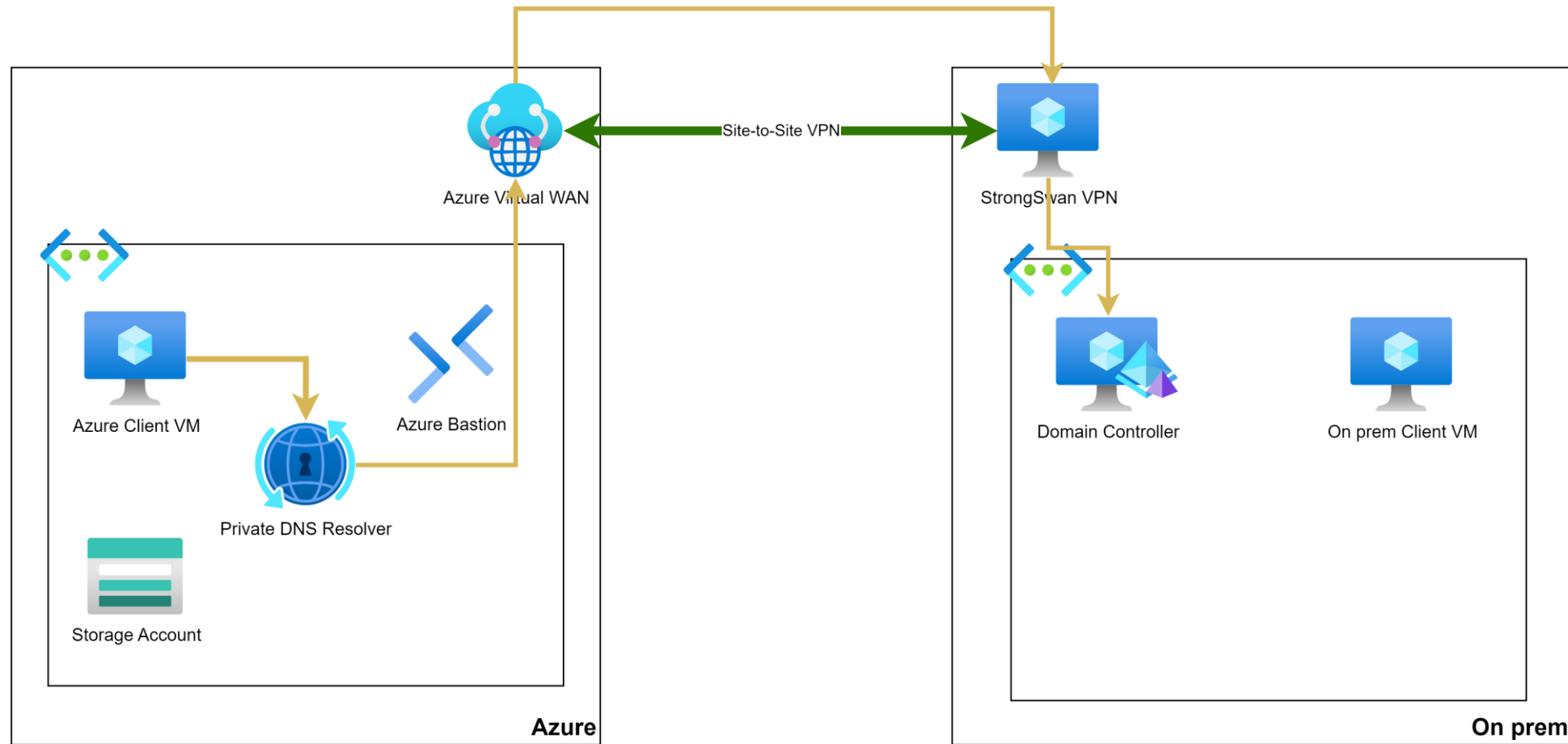
Target architecture



DNS Flows



DNS Flows



Recap

Recap

- DNS Resolution translates names to IP-addresses
- Azure can host private and public DNS Zones
 - But you can't buy them
- Azure Private DNS Resolver is the PaaS service to enable (hybrid) DNS resolution

Questions?

What do you need to configure to make sure on-premises systems can resolve Azure DNS names privately

Quiz question for the giveaway

Thank you!



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