Implement Azure Front Door

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Overview

Introducing Azure Front Door

- Choosing the appropriate SKU

Deploying and Configuring Azure Front Door

- Health probes
- Routing/redirection rules

Introducing Azure Front Door

Azure Front Door

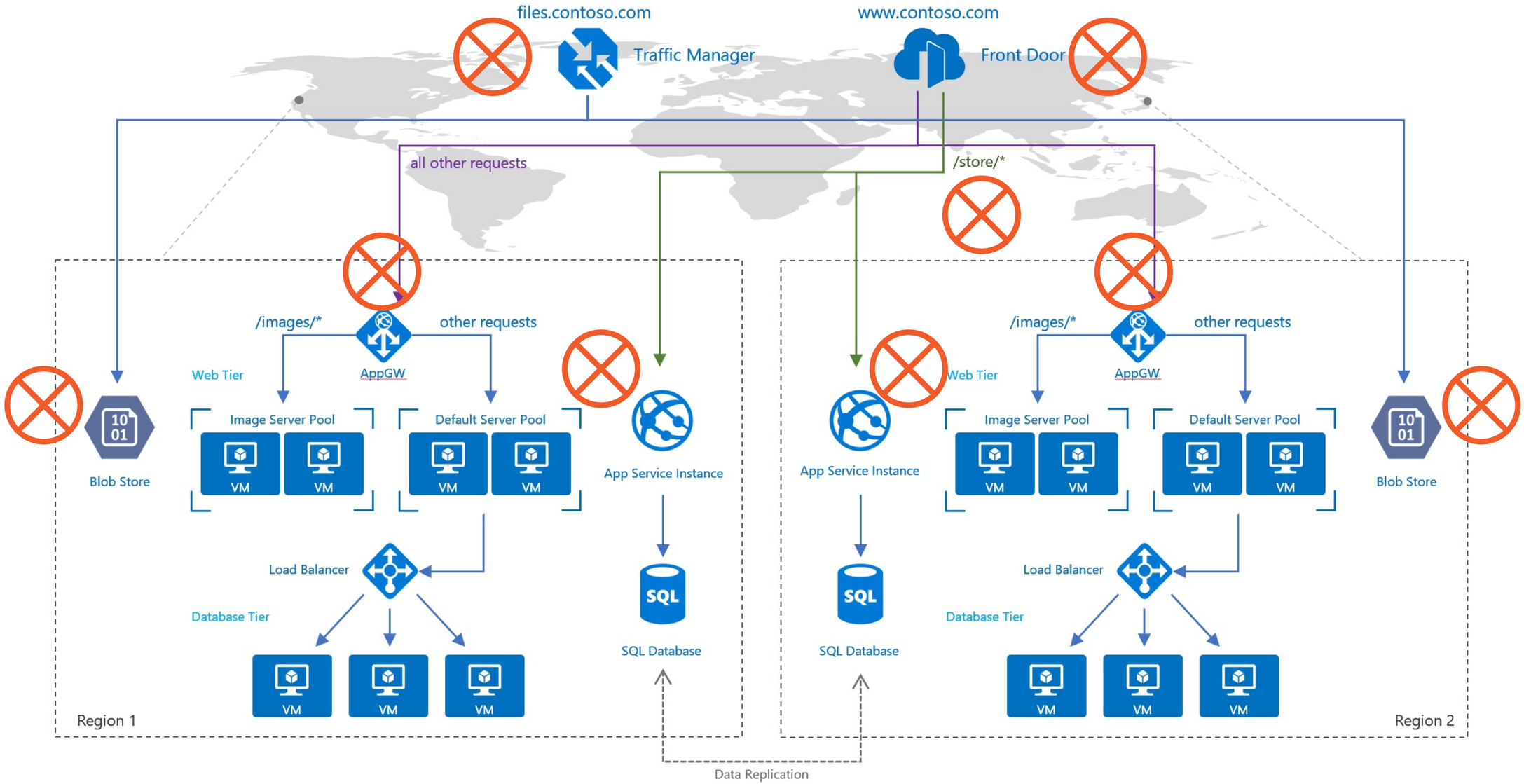
Global, scalable entry-point for your web applications

Multi-region high availability with latency-based routing, caching, and WAF protections

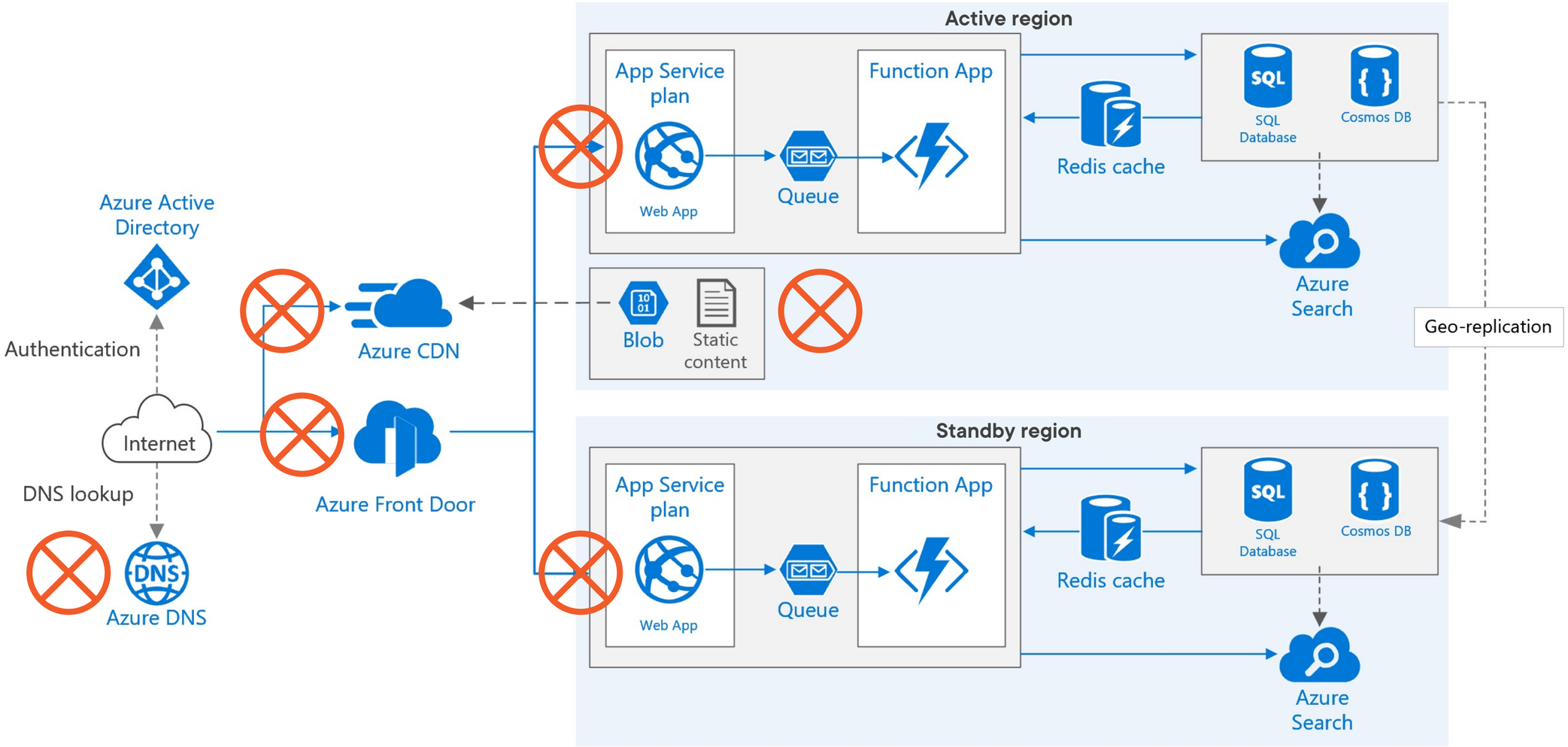
Works at OSI Layer 7

Can potentially simplify your Azure deployment(s)

Azure Front Door Architecture



Azure Front Door Architecture



Composite Services

Azure Front Door

Traffic Manager, Application Gateway WAF, CDN

Azure Virtual WAN

Hub/spoke, peering, VPNs, ExpressRoute, routing

Azure Front Door SKUs

Azure Front Door Standard SKU

Content delivery optimized

Offering both static and dynamic content acceleration

Global load balancing

SSL offload

Domain and certificate management

Enhanced traffic analytics

Basic security capabilities

Standard: delivery optimized

Azure Front Door Premium SKU

Extensive security capabilities across WAF

BOT protection

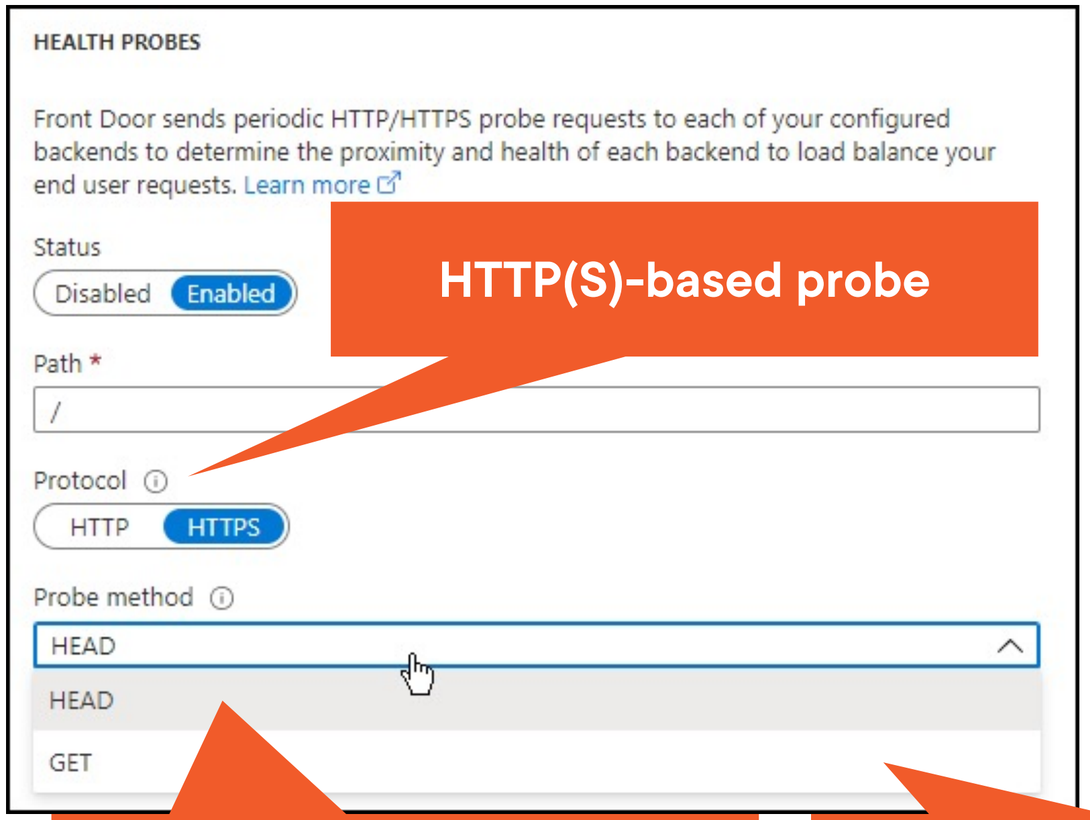
Private link support

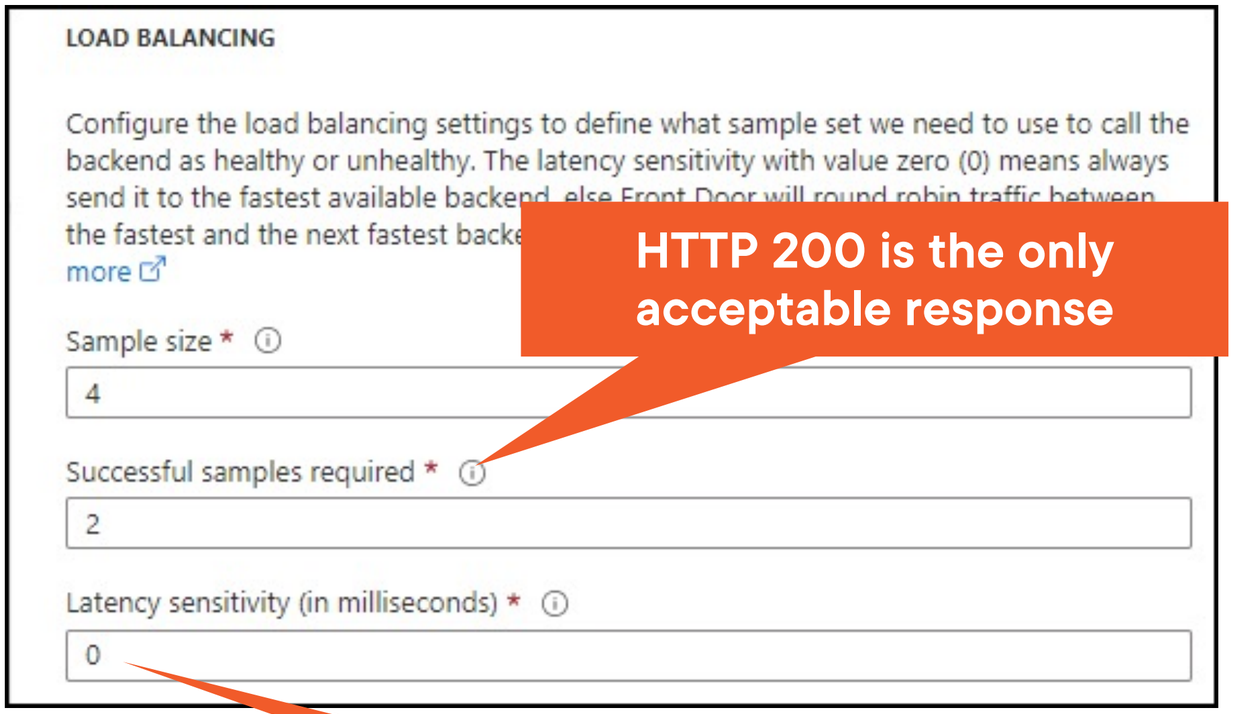
Integration with Microsoft Threat Intelligence and security analytics

Premium: security optimized

Deploying and Configuring Azure Front Door

Health Probe





HTTP(S)-based probe

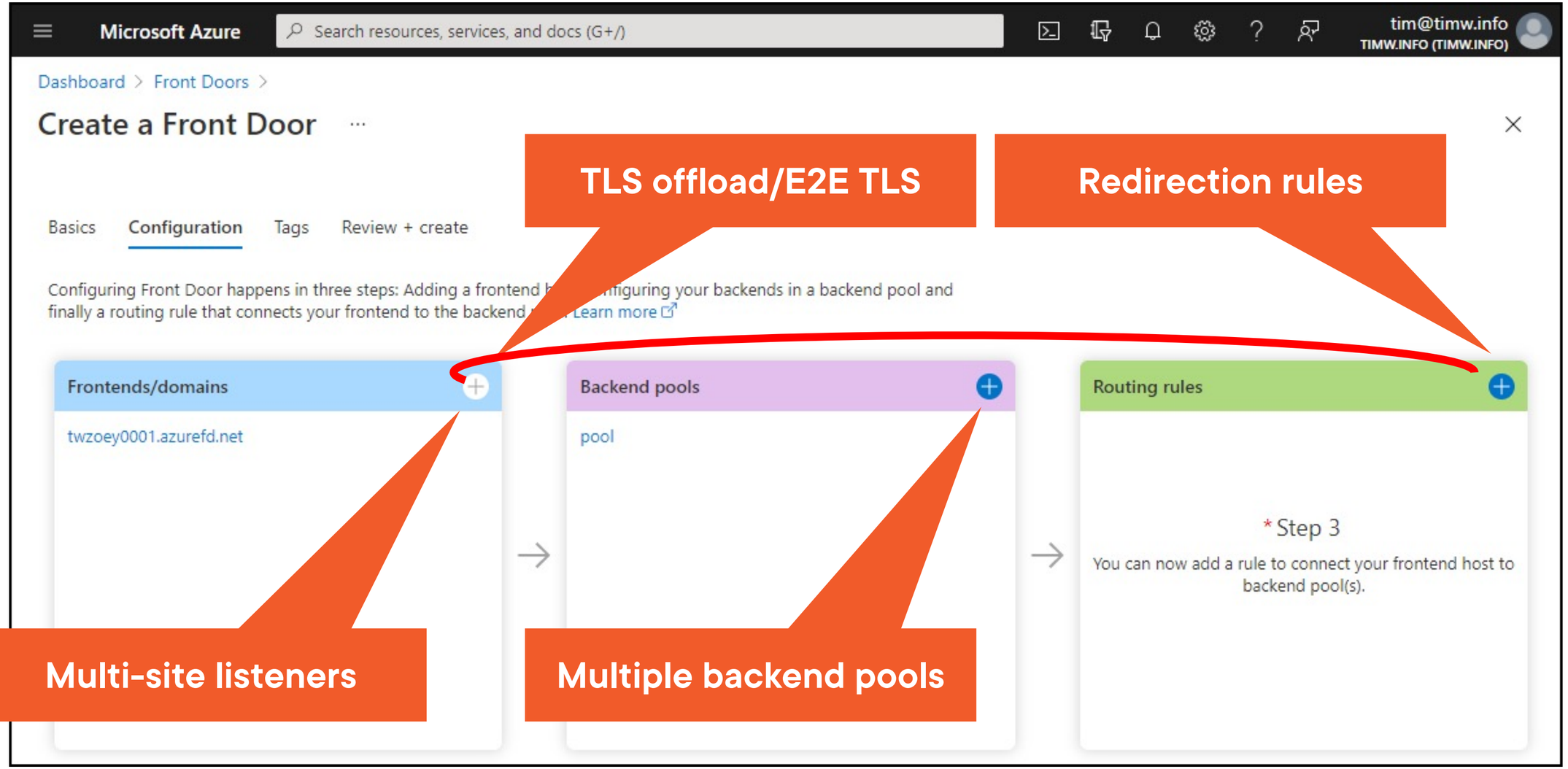
HTTP 200 is the only acceptable response

Server does not respond with message body (default)

Server responds with message body

Latency-based load balancing metric

Mapping App Gateway Features to Front Door

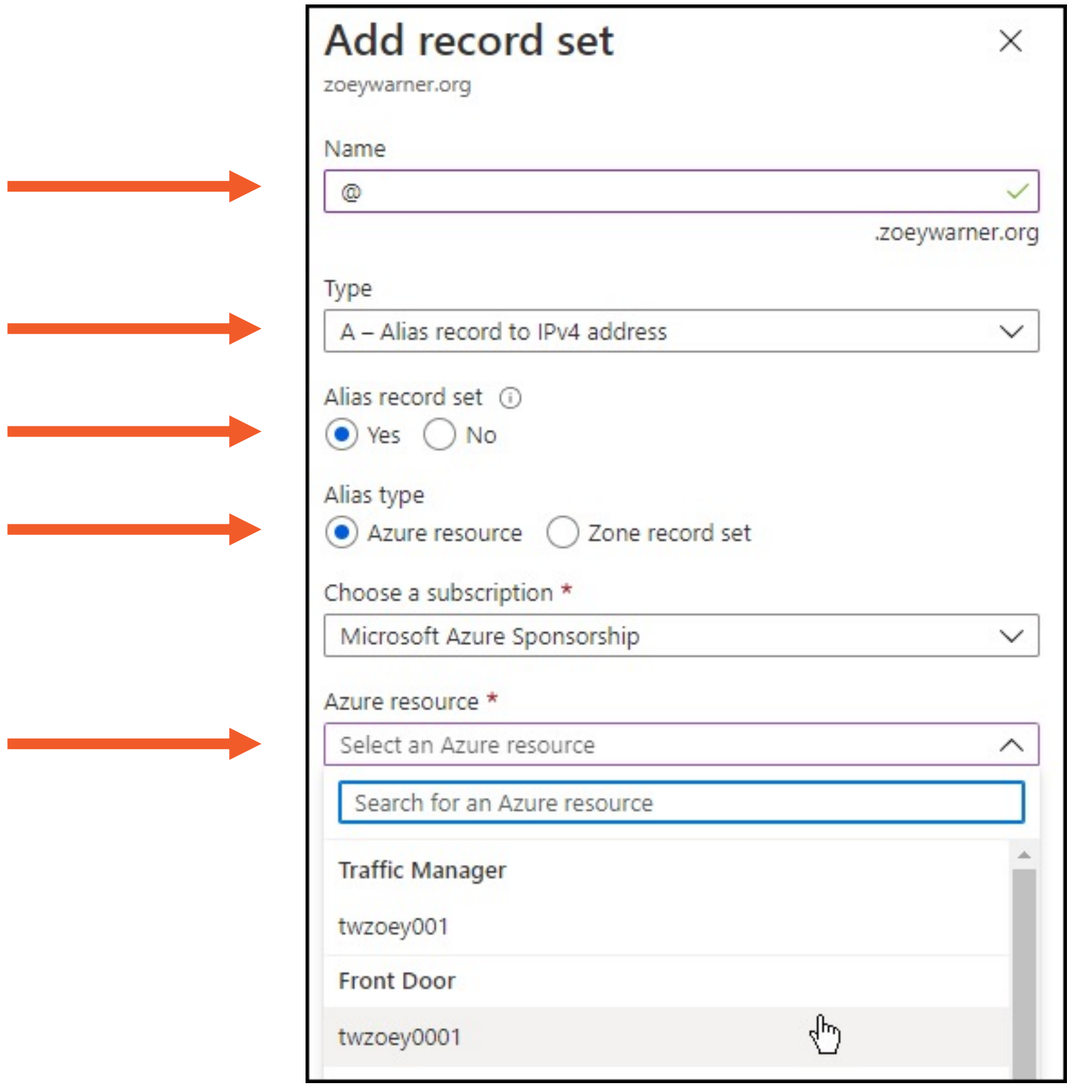


Load Balancing the Apex Domain

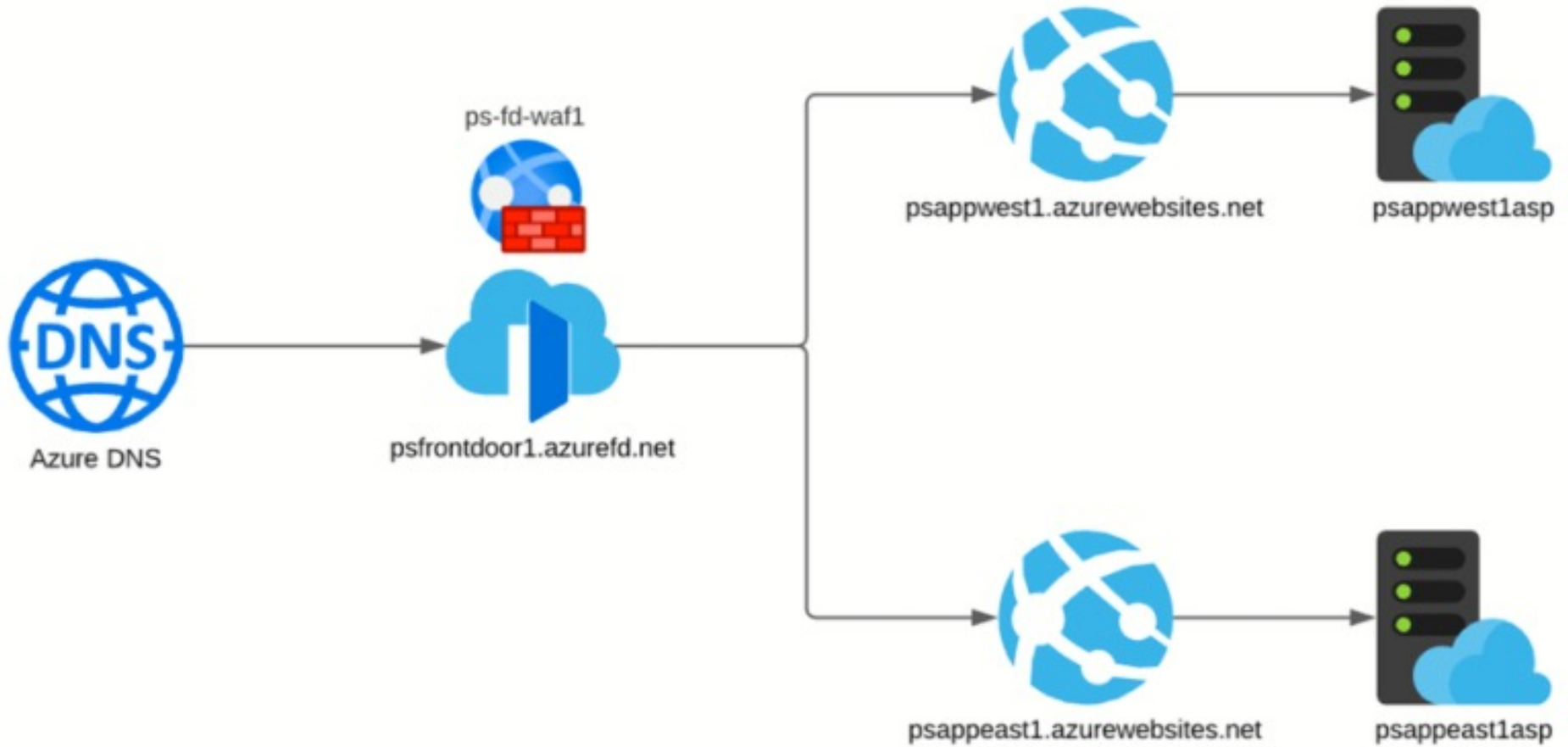
Historically, you use CNAME records to point to Front Door and Traffic Manager endpoints

CNAME flattening presents a workaround

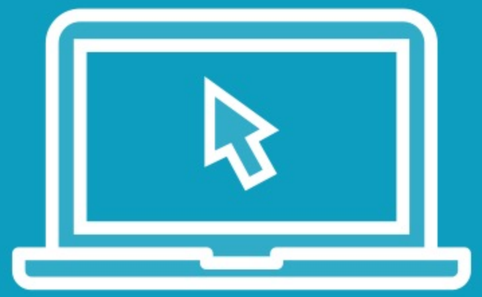
Azure DNS has easy-to-use Alias record sets



Our Lab Topology



Demo



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Deploy Front Door

Add custom domain

Configure TLS offload

Health probes

Test access and failover

Summary

Your decision to implement Azure Front Door likely boils down to:

- Your staff's networking skills
- Willingness to sacrifice control for ease of use
- Cost factors

"How would I implement Traffic Manager if I went that route?"

Up Next:
Implement an Azure Traffic Manager Profile