

# 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

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# Azure Front Door



**Global, scalable entry-point for your web applications**

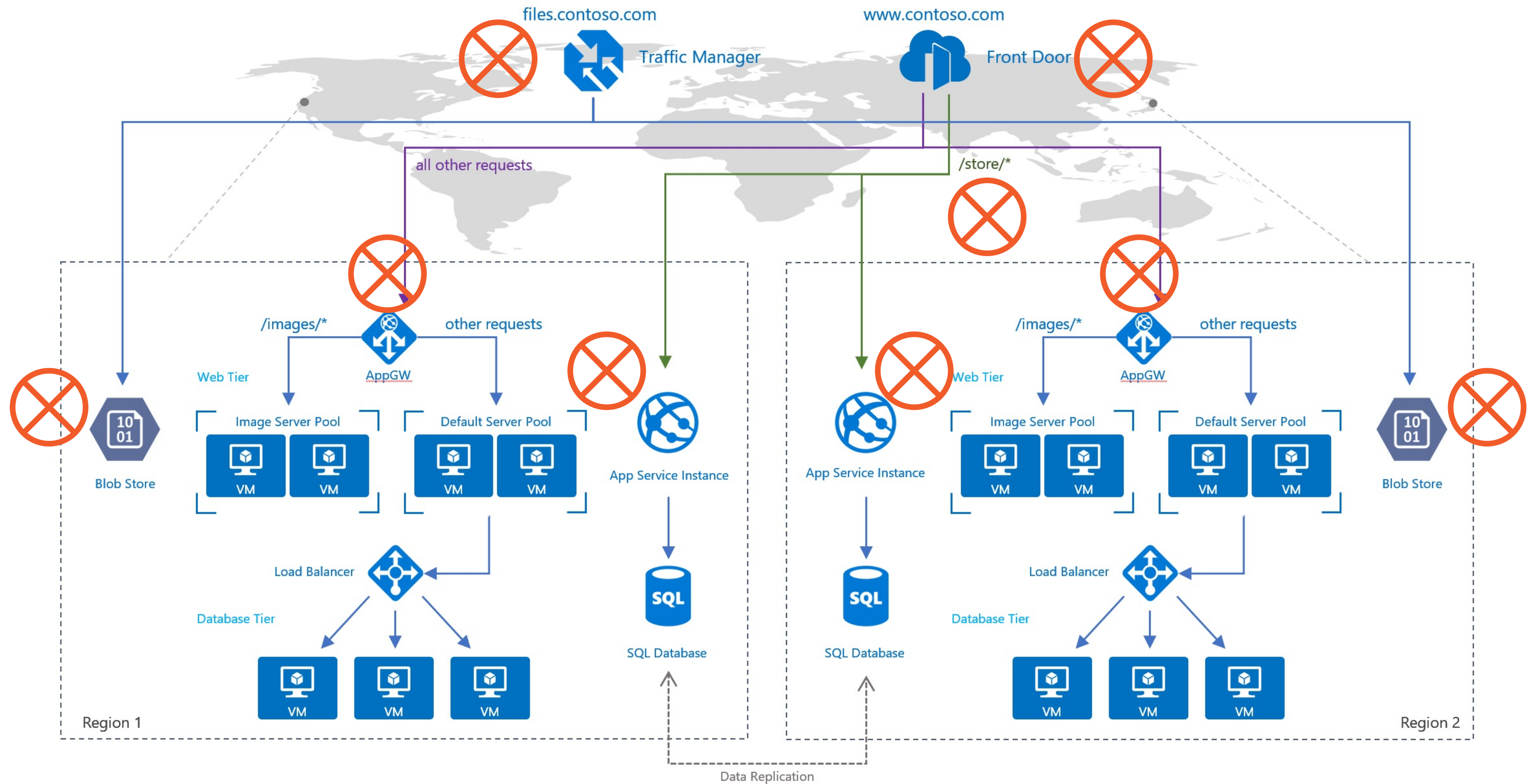
**Multi-region high availability with latency-based routing, caching, and WAF protections**

**Works at OSI Layer 7**

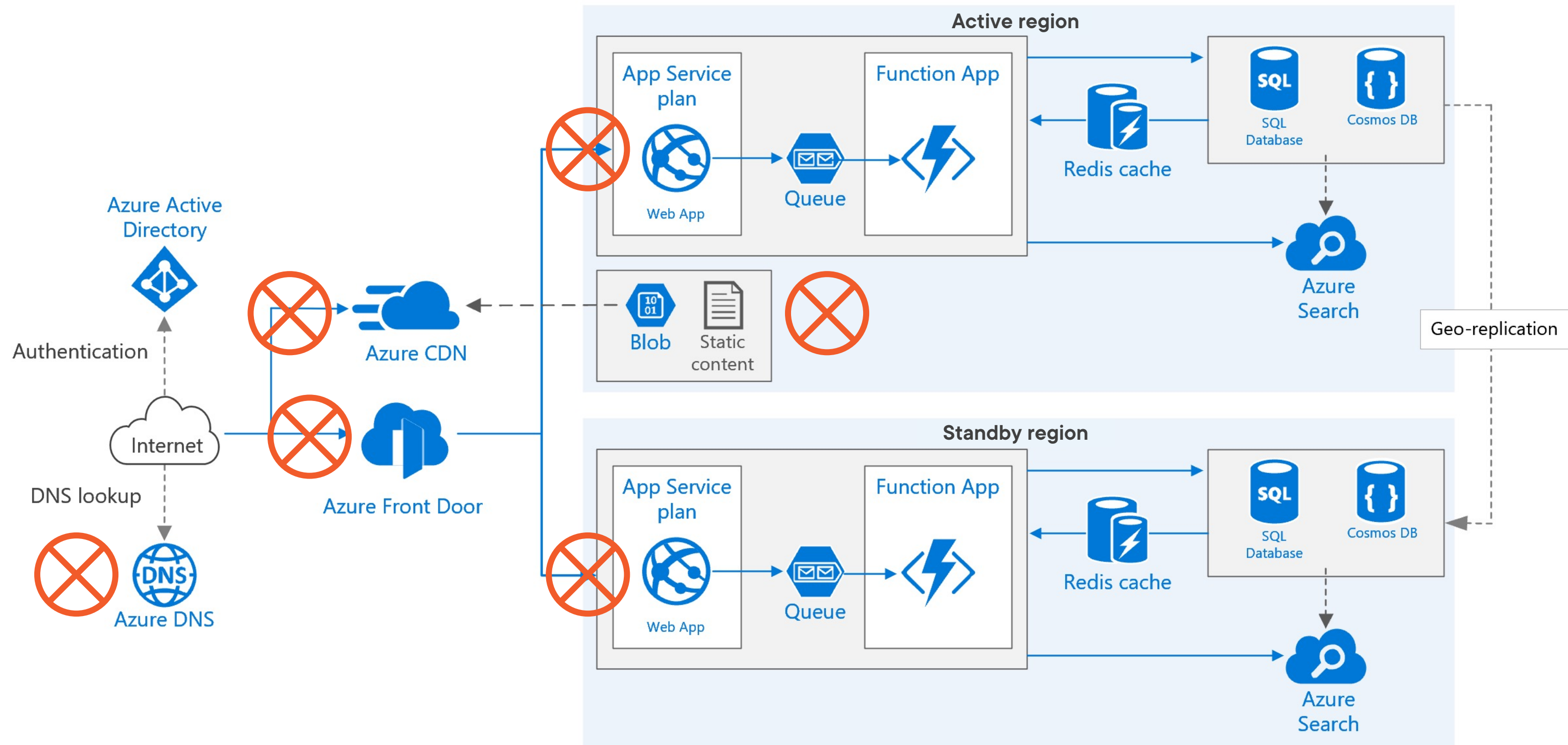
**Can potentially simplify your Azure deployment(s)**



# 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

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# Health Probe

**HEALTH PROBES**

Front Door sends periodic HTTP/HTTPS probe requests to each of your configured backends to determine the proximity and health of each backend to load balance your end user requests. [Learn more](#)

Status  
☐ Disabled ☒ Enabled

Path \*  
/

Protocol ⓘ  
☐ HTTP ☒ HTTPS

Probe method ⓘ  
HEAD  
HEAD  
GET

HTTP(S)-based probe

Server does not respond with message body (default)

Server responds with message body

**LOAD BALANCING**

Configure the load balancing settings to define what sample set we need to use to call the backend as healthy or unhealthy. The latency sensitivity with value zero (0) means always send it to the fastest available backend, else Front Door will round robin traffic between the fastest and the next fastest backends. [Learn more](#)

Sample size \* ⓘ  
4

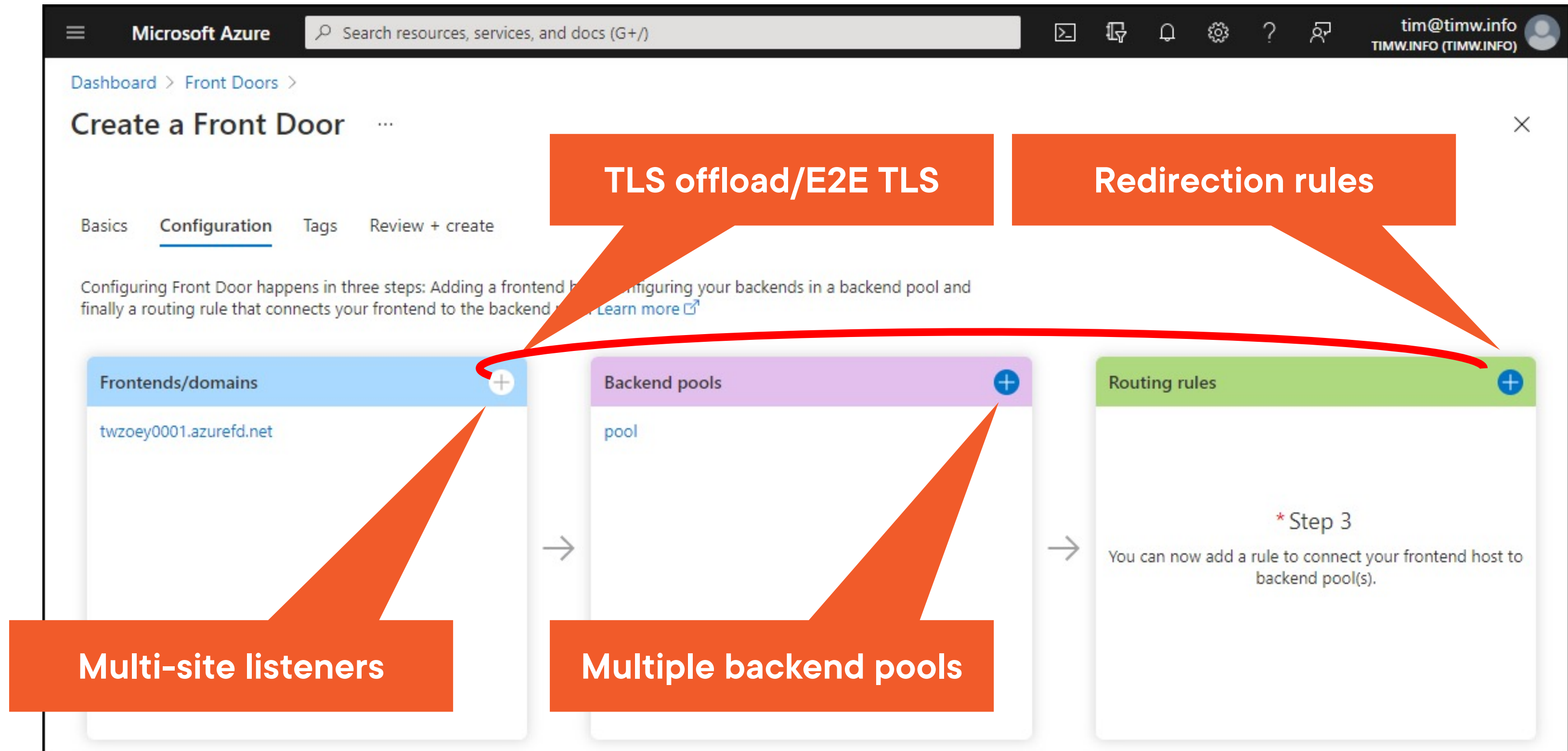
Successful samples required \* ⓘ  
2

Latency sensitivity (in milliseconds) \* ⓘ  
0

HTTP 200 is the only acceptable response

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**

**Add record set** zoeywarner.org

Name:  ✓ .zoeywarner.org

Type: A - Alias record to IPv4 address ▼

Alias record set ⓘ ☒ Yes ☐ No

Alias type ☒ Azure resource ☐ Zone record set

Choose a subscription \* Microsoft Azure Sponsorship ▼

Azure resource \* Select an Azure resource ^

Traffic Manager

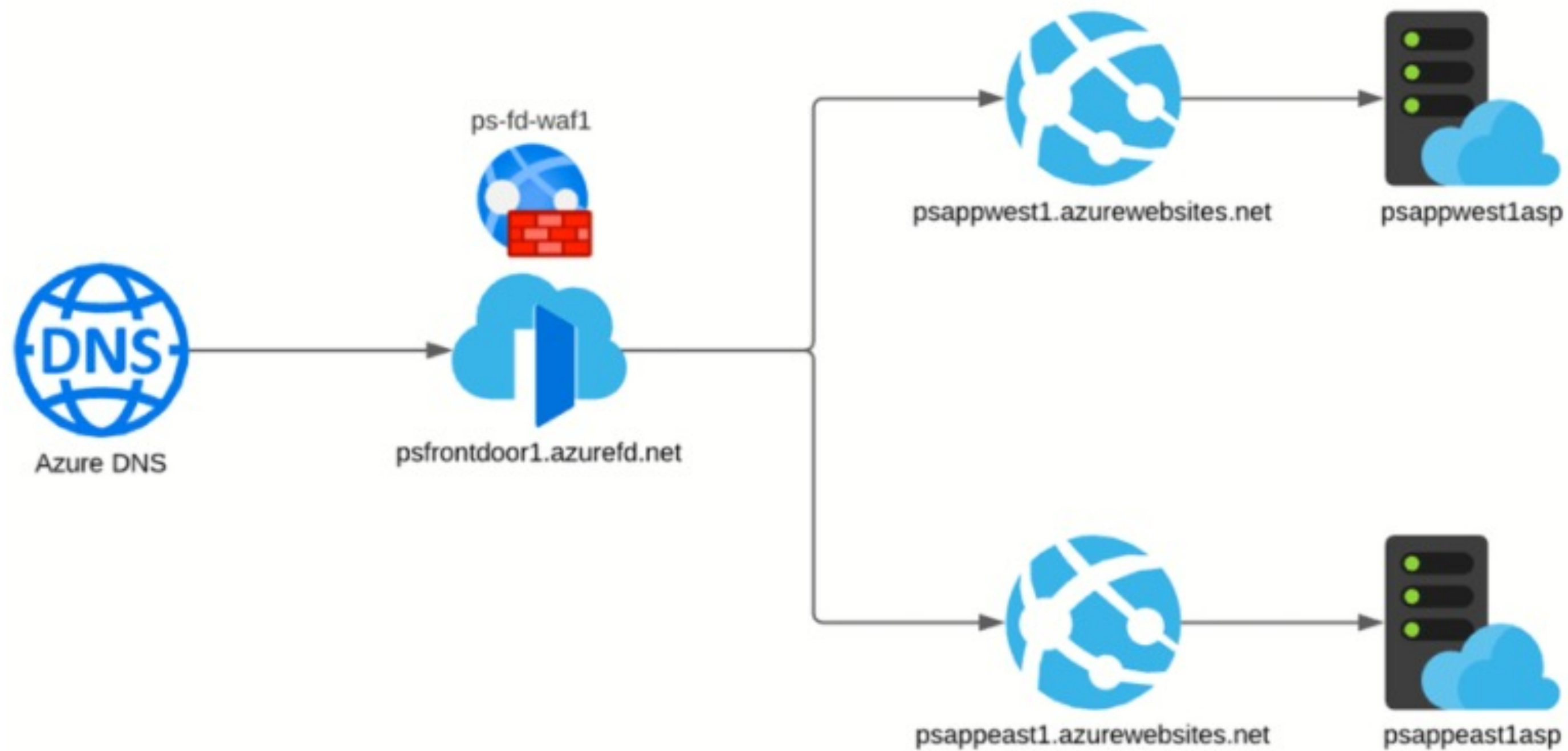
twzoey001

Front Door

twzoey0001



# Our Lab Topology



# Demo



1

**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

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