Implement an Azure Traffic Manager Profile

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Overview

Introducing Azure Traffic Manager

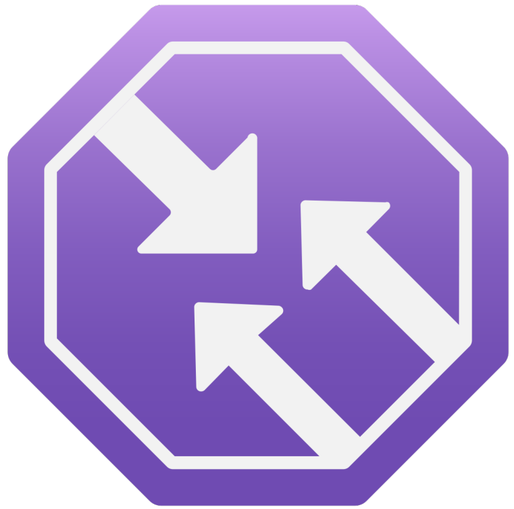
- Use case
- Comparison with Azure Front Door

Deploy and configuring Azure Traffic Manager

- Routing method(s)
- Endpoints
- HTTP settings

Introducing Azure Traffic Manager

Azure Traffic Manager



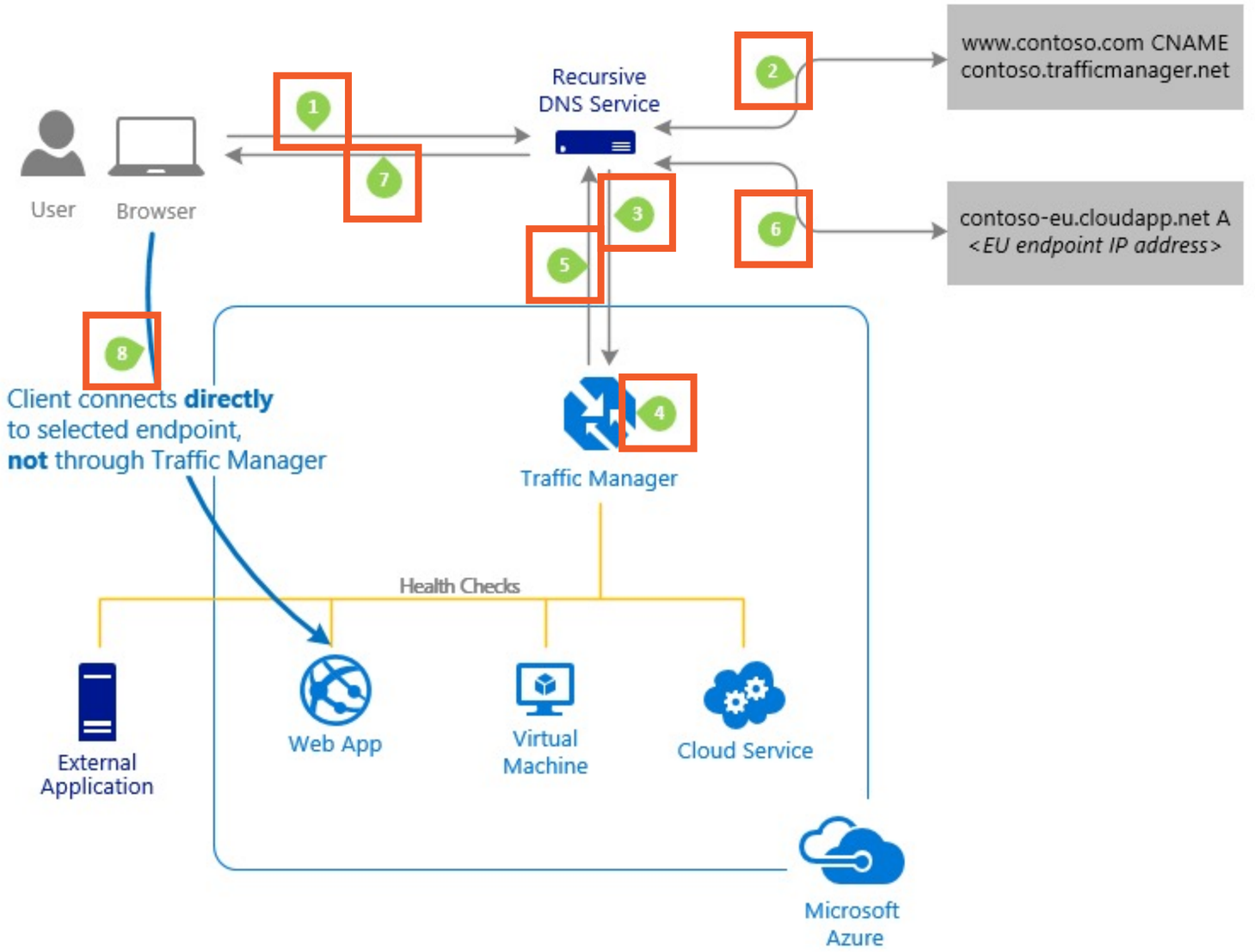
Domain Name System (DNS)-based traffic load balancer

- OSI Layer 7

Support multi-region, multi-cloud app deployments with several traffic distribution methods

You can load-balance the root (apex) domain just like you can with Azure Front Door

How Azure Traffic Manager Works



Traffic Manager Routing Methods

Priority:
Disaster recovery

Weighted:
Canary testing

Performance:
Latency

Geographic:
Data sovereignty

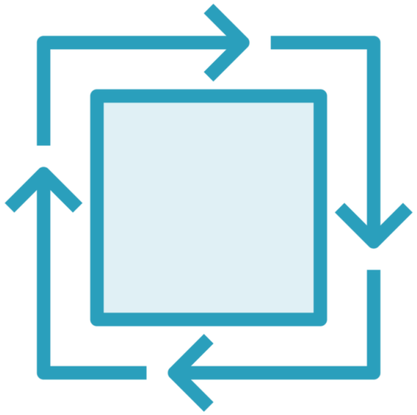
MultiValue:
IPv4/6-only endpoints

Subnet:
Mapped end-user IP address ranges

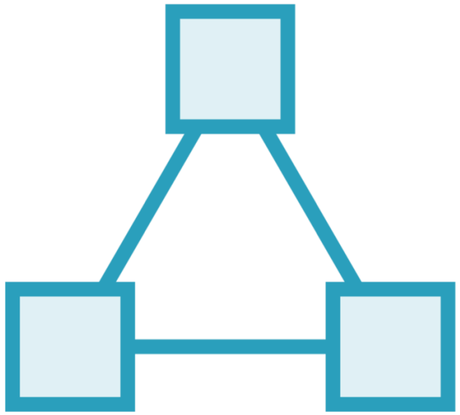
Deploying and Configuring Azure Traffic Manager

Traffic Manager Endpoint Types

Azure
App Service, App Service slot, or Azure public IP address



External
FQDN or public IP address



Nested
Sub-Traffic Manager profile

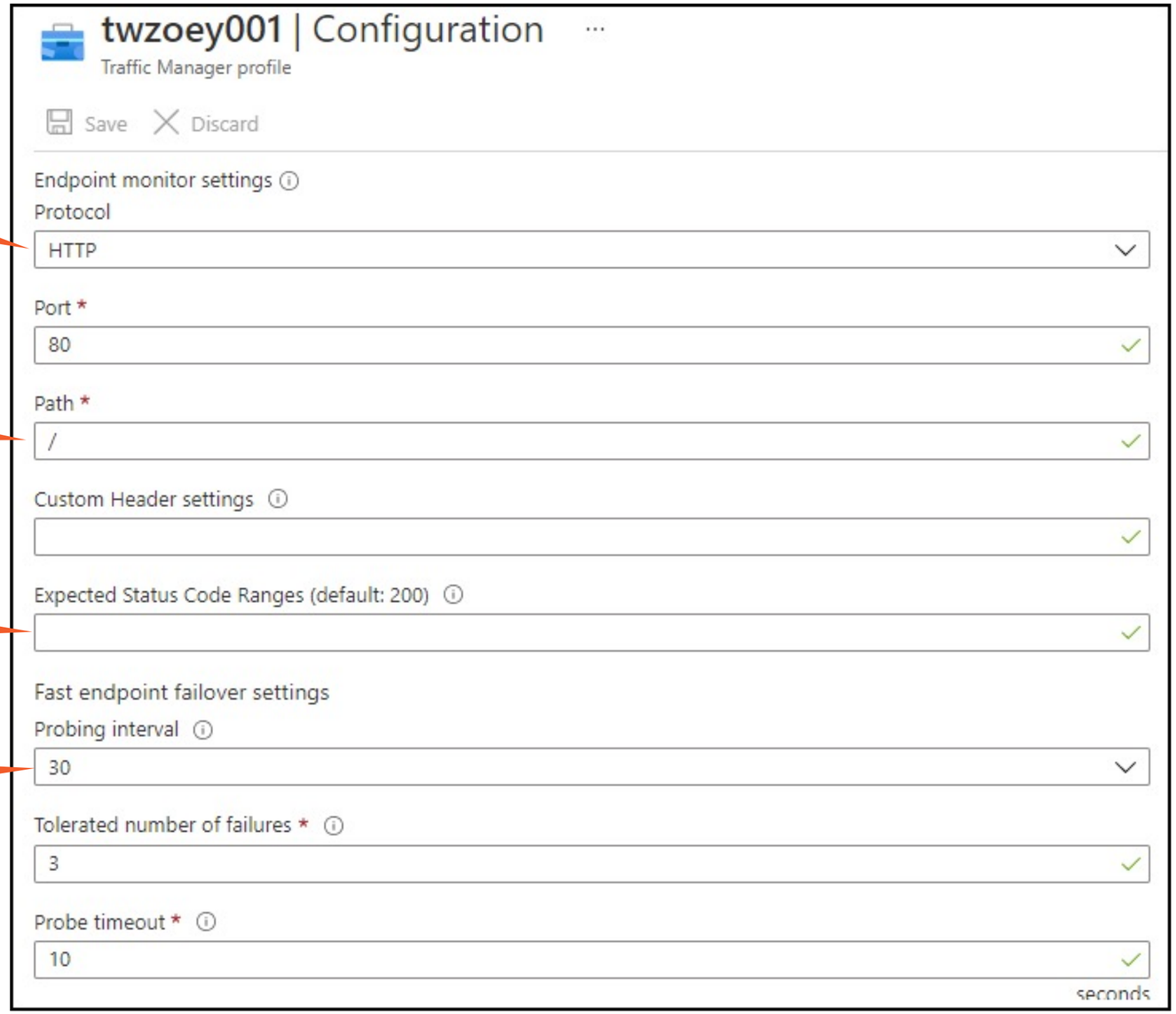
Traffic Manager Endpoint Monitor Settings

HTTP/HTTPS GET request

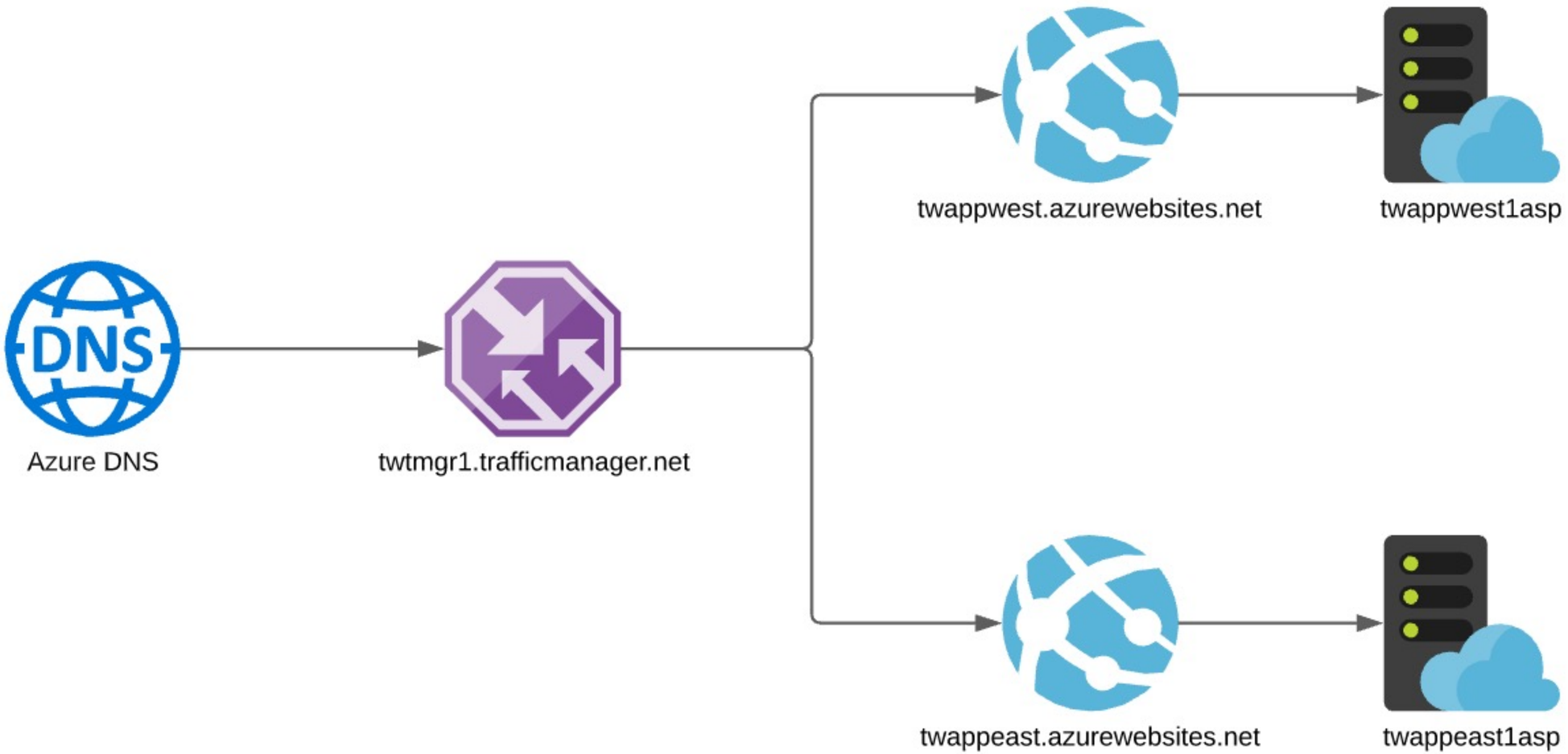
Ex: /health.aspx with app-specific checks

Ex: HTTP 200-299

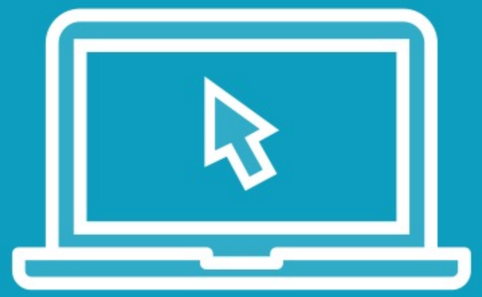
“Fast” interval is 10 seconds



Our Lab Topology



Demo



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Deploy TM profile

Configure endpoints

Tweak HTTP settings

Test access & failover

Summary

If you're willing to implement the resources separately, Traffic Manager and Application Gateway make a powerful combination

As always, the answer to any Azure load balancing question is...

- "It depends!"

"We can't give our API server a public IP, but we need to track its outbound Internet access with a predictable public IP address. What should we do?"

Up Next: Design and Implement Azure Virtual Network NAT