

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

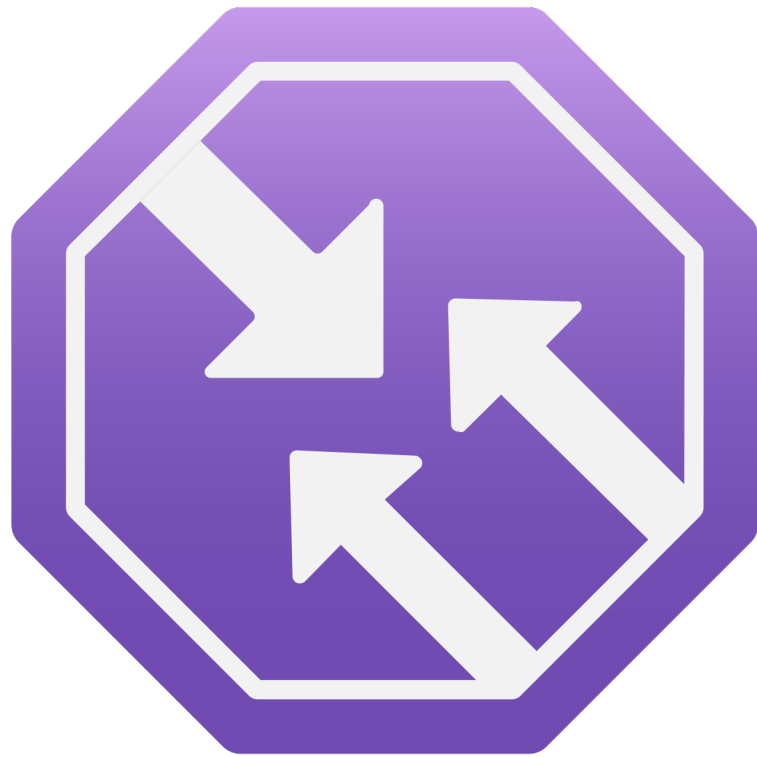
- Routing method(s)
- Endpoints
- HTTP settings



Introducing Azure Traffic Manager



Azure Traffic Manager



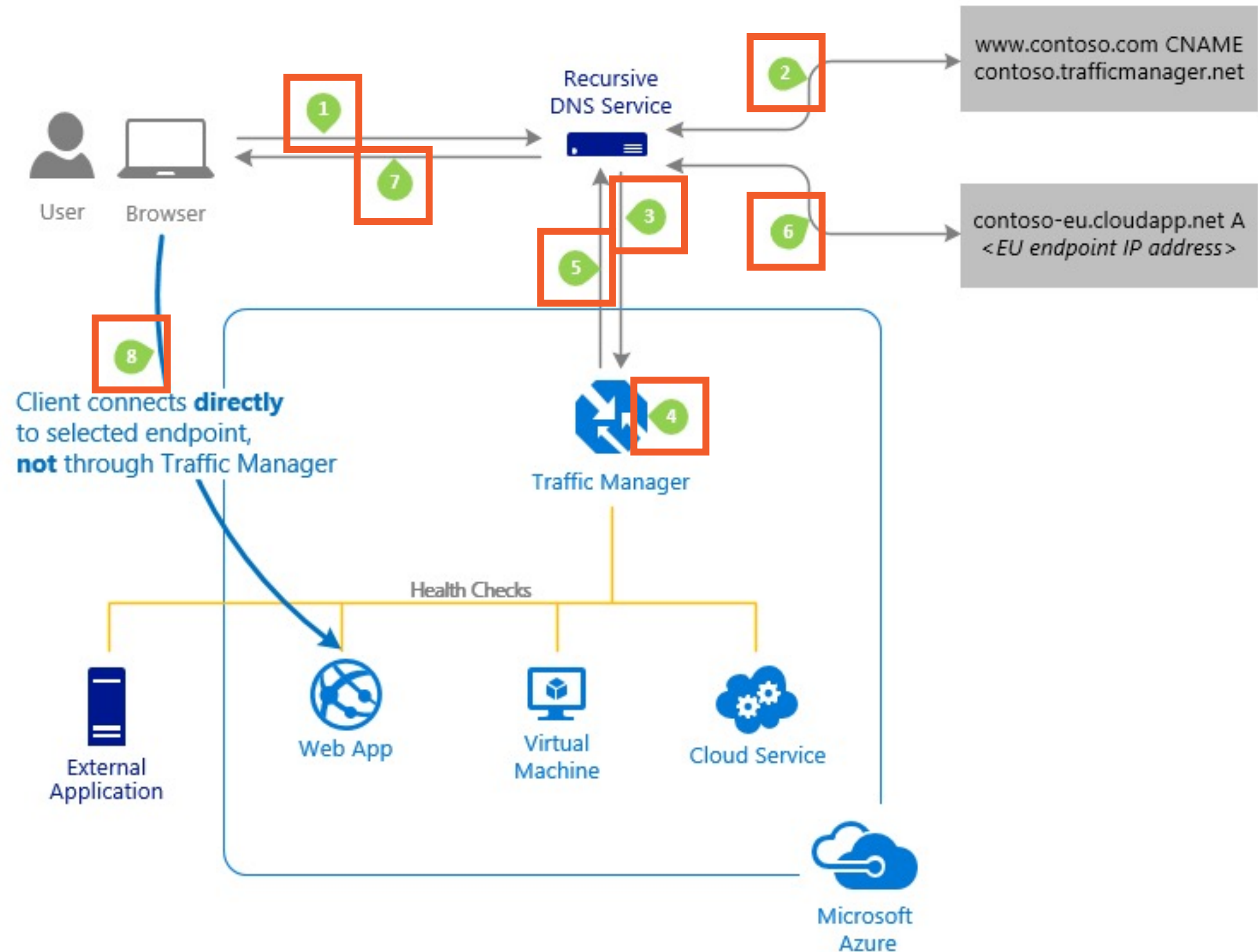
Domain Name System (DNS)-based traffic load balancer

- 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

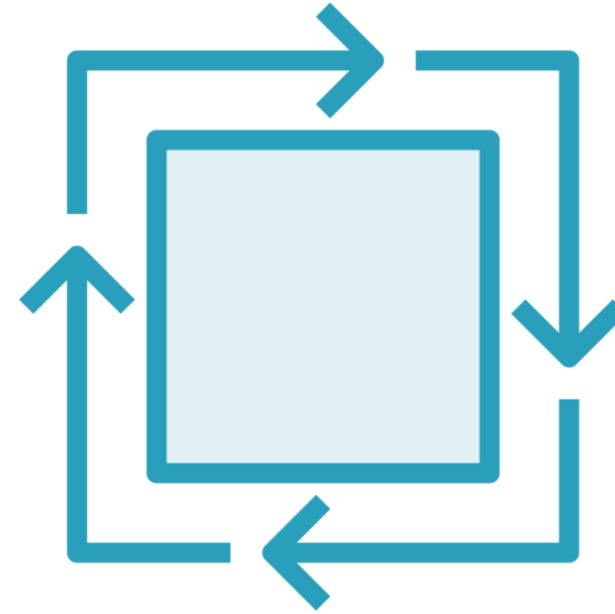


Traffic Manager Endpoint Types



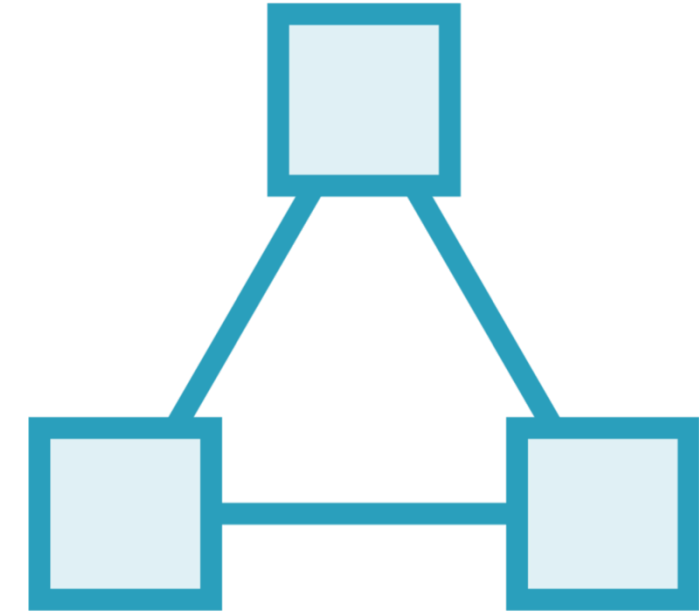
Azure

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



External

FQDN or public IP address



Nested

Sub-Traffic Manager profile

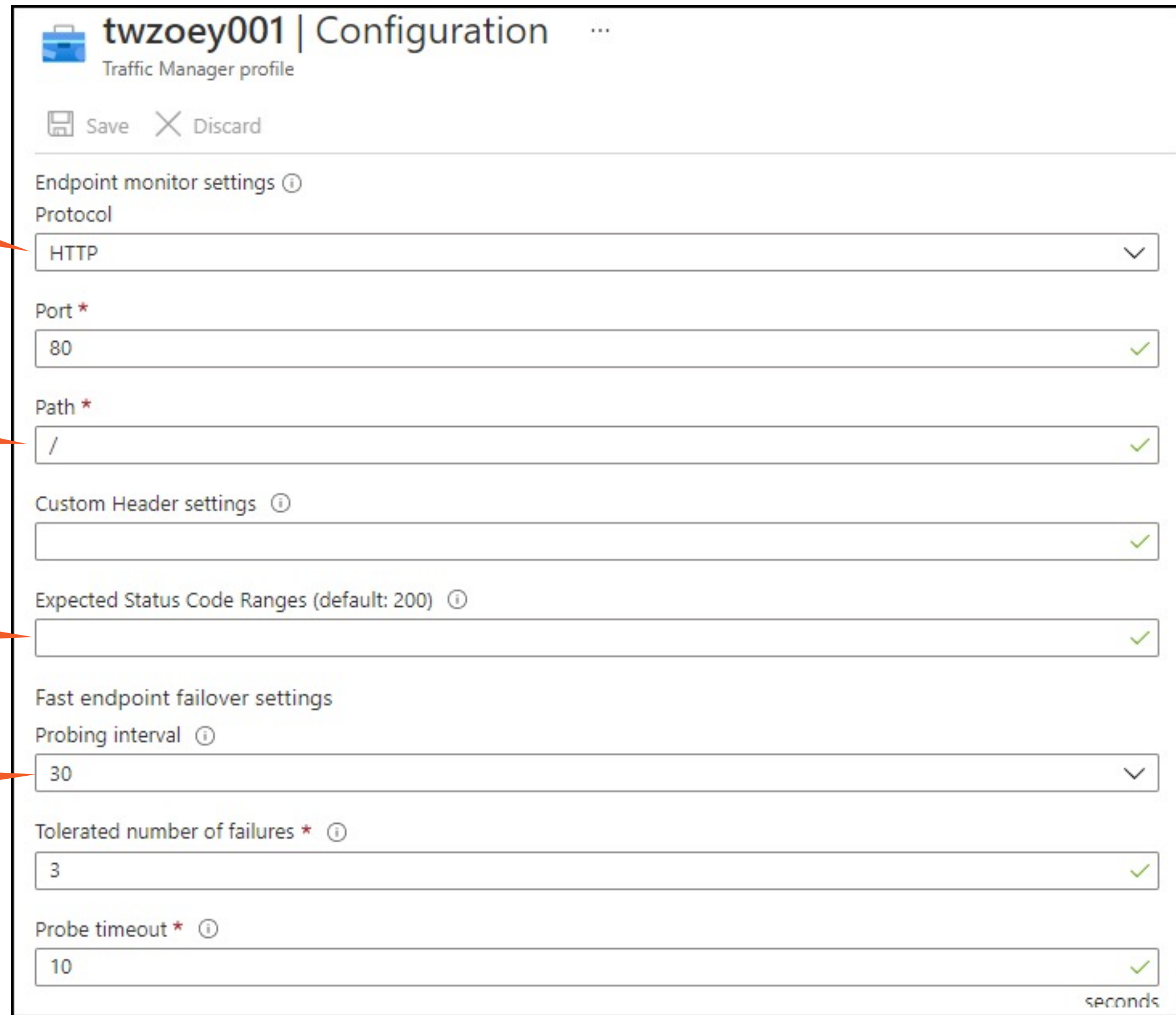
Traffic Manager Endpoint Monitor Settings

HTTP/HTTPS GET request

Ex: /health.aspx with
app-specific checks

Ex: HTTP 200-299

“Fast” interval is 10 seconds



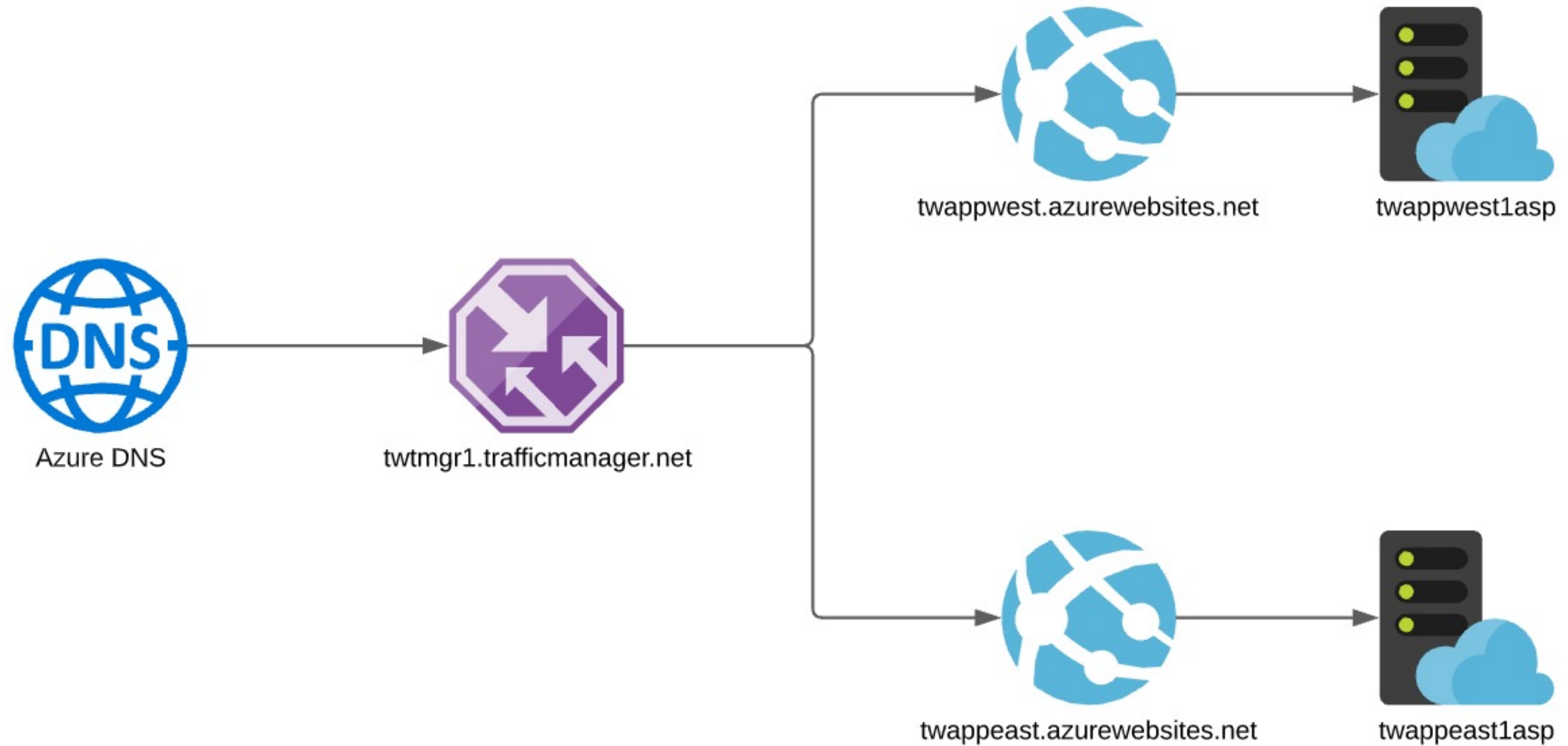
The screenshot shows the 'twzoey001 | Configuration' page for a Traffic Manager profile. It includes a 'Save' button and a 'Discard' button. The 'Endpoint monitor settings' section is expanded, showing the following fields:

- Protocol:** HTTP (selected from a dropdown menu)
- Port:** 80 (with a green checkmark)
- Path:** / (with a green checkmark)
- Custom Header settings:** (empty text field with a green checkmark)
- Expected Status Code Ranges (default: 200):** (empty text field with a green checkmark)
- Fast endpoint failover settings:**
 - Probing interval:** 30 (selected from a dropdown menu)
 - Tolerated number of failures:** 3 (with a green checkmark)
 - Probe timeout:** 10 (with a green checkmark)

The unit 'seconds' is indicated at the bottom right of the form.



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

