

M04-Unit 6 Create a Traffic Manager profile using the Azure portal

Task 1: Create the web apps

1. On the Azure portal home page, click Create a resource, then select Web App (if this resource type is not listed on the page, use the search box at the top of the page to search for it and select it)

Home > Create a resource >

Create Web App

Basics Deployment Networking Monitoring Tags Review + create

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. [Learn more](#)

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * Azure for Students

Resource Group * (New) Resource group

[Create new](#)

Instance Details

Need a database? [Try the new Web + Database experience.](#)

Name * Web App name.

.azurewebsites.net

Publish * ☒ Code ☐ Docker Container ☐ Static Web App

[Review + create](#) < Previous Next : Deployment >

2. On the Create Web App page, on the Basics tab, use the information in the table below to create the first web application.

Home > Create a resource >

Create Web App

Basics Deployment Networking Monitoring Tags Review + create

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. [Learn more](#)

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * Azure for Students

Resource Group * (New) Contoso-RG-TM1

[Create new](#)

Instance Details

Need a database? [Try the new Web + Database experience.](#)

Name * ContosoWebAppEastUSIT

.azurewebsites.net

Publish * ☒ Code ☐ Docker Container ☐ Static Web App

[Review + create](#) < Previous Next : Deployment >

3. Click Next : Deployment, then click Next : Monitoring.

Create Web App ... ×

Basics Deployment Networking **Monitoring** Tags Review + create

Azure Monitor application insights is an Application Performance Management (APM) service for developers and DevOps professionals. Enable it below to automatically monitor your application. It will detect performance anomalies, and includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app. [Learn more](#) ⓘ

Application Insights

Enable Application Insights * ☐ No ☒ Yes

Application Insights *

(New) ContosoWebAppEastUSIT (East US) ▼

[Create new](#)

Region

East US

Review + create

< Previous

Next : Tags >

4. On the Monitoring tab, select the No option for Enable Application Insights.

Create Web App ... ×

Basics Deployment Networking **Monitoring** Tags Review + create

Azure Monitor application insights is an Application Performance Management (APM) service for developers and DevOps professionals. Enable it below to automatically monitor your application. It will detect performance anomalies, and includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app. [Learn more](#) ⓘ

Application Insights

Enable Application Insights * ☒ No ☐ Yes

Review + create

< Previous

Next : Tags >


5. Click Review + create.

Create Web App

✕

BasicsDeploymentNetworkingMonitoringTagsReview + create

Summary

Web App
by Microsoft

Basic (B1) sku
Estimated price - \$4.75 USD/Month

Details

Subscription	22326a92-2476-4fb9-bdc6-48f3ffdd5831
Resource Group	Contoso-RG-TM1
Name	ContosoWebAppEastUSIT
Publish	Code
Runtime stack	ASP.NET V4.8

App Service Plan (New)

Name	ContosoAppServicePlanEastUS
Operating System	Windows
Region	East US

Create

< Previous

Next >

[Download a template for automation](#)

FULLSTACK

Runtime stack

CODE

ASP.NET V4.8

App Service Plan (New)

Name	ContosoAppServicePlanEastUS
Operating System	Windows
Region	East US
SKU	Basic
Size	Small
ACU	100 total ACU
Memory	1.75 GB memory

Monitoring

Application Insights	Not enabled
----------------------	-------------

Deployment

Continuous deployment	Not enabled / Set up after app creation
-----------------------	---

Create




< Previous

Next >






[Download a template for automation](#)


6. Click Create. When the Web App successfully deploys, it creates a default web site.


[Home](#) >


**Microsoft.Web-WebApp-Portal-afe8eae7-9898** | Overview  ... 


Deployment


<<  Delete  Cancel  Redeploy  Download  Refresh


 Overview

 Inputs

 Outputs

 Template

 **Your deployment is complete**

 Deployment name: Microsoft.Web-WebApp-Portal-afe8e... Start time: 9/12/2022, 11:17:07 AM
Subscription: [Azure for Students](#) Correlation ID: 472645c7-f07e-4e37-adc1-730b6406069f
Resource group: [Contoso-RG-TM1](#)


▼ Deployment details


^ Next steps

[Manage deployments for your app.](#) Recommended

[Protect your app with authentication.](#) Recommended

[Go to resource](#)


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7. Repeat steps 1-6 above to create a second web app. Use the same settings as before except for the information in the table below.


Create Web App ... 


Basics Deployment Networking Monitoring Tags Review + create

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. [Learn more](#) 


Project Details
Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription * 


Azure for Students 

Resource Group * 

(New) Contoso-RG-TM2 

[Create new](#)

Instance Details
Need a database? [Try the new Web + Database experience.](#) 
Name *

ContosoWebAppWestEuropeIT 

.azurewebsites.net

Publish *

☒ Code ☐ Docker Container ☐ Static Web App

[Review + create](#)

[< Previous](#)

[Next : Deployment >](#)

azurewebsites.net

Publish *

☒ Code

☐ Docker Container

☐ Static Web App

Runtime stack *

ASP.NET V4.8

Operating System *

☐ Linux

☒ Windows

Region *

West Europe

Not finding your App Service Plan? Try a different region or select your App Service Environment.

App Service Plan

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.
[Learn more](#)

Windows Plan (West Europe) *

(New) ContosoAppServicePlanWestEurope

Create new

Sku and size *

Free F1

Shared infrastructure, 1 GB memory

[Change size](#)

Review + create

< Previous

Next : Deployment >

Create Web App ...

Basics

Deployment

Networking

Monitoring

Tags

Review + create

Summary

Web App

by Microsoft

Free sku

Estimated price - Free

Details

Subscription

22326a92-2476-4fb9-bdcb-48f3ffdd5831

Resource Group

Contoso-RG-TM2

Name

ContosoWebAppWestEuropeIT

Publish

Code

Runtime stack

ASP.NET V4.8

App Service Plan (New)

Name

ContosoAppServicePlanWestEurope

Operating System

Windows

Region

West Europe

Create

< Previous

Next >

[Download a template for automation](#)

Subscription	22326a92-2476-4fb9-bdc9-48f3ffdd5831
Resource Group	Contoso-RG-TM2
Name	ContosoWebAppWestEuropeIT
Publish	Code
Runtime stack	ASP.NET V4.8

App Service Plan (New)

Name	ContosoAppServicePlanWestEurope
Operating System	Windows
Region	West Europe
SKU	Free
ACU	Shared infrastructure
Memory	1 GB memory

Monitoring

Application Insights	Not enabled
----------------------	-------------

Deployment


Create

< Previous

Next >

[Download a template for automation](#)

Home >

 Microsoft.Web-WebApp-Portal-71ff9235-a28d | Overview

Deployment

Search (Ctrl+/)

<<

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

We'd love your feedback! →

✔ Your deployment is complete

Deployment name: Microsoft.Web-WebApp-Portal-71ff9...

Subscription: [Azure for Students](#)

Resource group: [Contoso-RG-TM2](#)

Start time: 9/12/2022, 11:29:13 AM

Correlation ID: b4ab4833-5e68-4cd0-835f-b02b6daf400c

Deployment details

Next steps

[Manage deployments for your app.](#) Recommended

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Go to resource

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<https://portal.azure.com/#>

8. On the Azure home page, click All services, in the left navigation menu, select Web, and then click App Services. + 9. You should see the two new web apps listed.

App Services

CTU Career (ctucareer.co.za)

+ Create Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete

Filter for all resource group equals all Location equals all Add filter

No grouping List view

Name	Location	Pricing Tier	App Service Plan	Subscription	App Type
ContosoWebAppEastUSIT	Running East US	Basic	ContosoAppServicePlanEastUS	Azure for Students	Web App
ContosoWebAppWestEuropeIT	Running West Europe	Free	ContosoAppServicePlanWestEurope	Azure for Students	Web App

Task 2: Create a Traffic Manager profile

1. On the Azure portal home page, click Create a resource.

Create a resource

Get Started Search services and marketplace Getting Started? Try our Quickstart center

Recently created

Categories

AI + Machine Learning

Analytics

Blockchain

Compute

Containers

Databases

Developer Tools

DevOps

Identity

Integration

Internet of Things

IT & Management Tools


Popular Azure services See more in All services

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- SQL Database Create | Docs | MS Learn
- Storage account Create | Docs | MS Learn

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- Windows 10 Pro, version 20H2 Create | Learn more
- Ubuntu Server 18.04 LTS Create | Learn more
- Free 100 Set up + subscribe | Learn more
- Elastic Cloud - Pay as you Go Set up + subscribe | Learn more

2. In the search box at the top of the page, type Traffic Manager profile, and then select it from the pop-up list.

Traffic Manager profile  ...
Microsoft



Traffic Manager profile [Add to Favorites](#)

Microsoft

★ 4.0 (18 Marketplace ratings) | ★ 4.0 (12 external ratings)

Plan

Traffic Manager profile

Create

[Overview](#) [Plans](#) [Usage Information + Support](#) [Reviews](#)

Azure Traffic Manager helps reduce downtime and improve responsiveness of important applications by routing incoming traffic across multiple deployments in different regions. Built-in health checks and automatic re-routing help ensure high availability if a service fails. Use Traffic Manager with Azure services including Web Apps, Cloud Services and Virtual Machines - or combine it with on-premises services for hybrid deployments and smooth cloud migration.

Use Traffic Manager to:

- Improve app availability with automatic failover.
- Increase your app's responsiveness by routing end users to the Azure location with lowest network latency.
- Seamlessly combine on-premises and cloud.

More products from Microsoft [See All](#)



3. Click Create.

[Home](#) > [Create a resource](#) > [Traffic Manager profile](#) >

Create Traffic Manager profile ...

Name *

.trafficmanager.net

Routing method

Performance

Subscription *

Azure for Students

Resource group *

[Create new](#)

Resource group location ⓘ

West Europe

Create

[Automation options](#)

4. On the Create Traffic Manager profile page, use the information in the table below to create the Traffic Manager profile.

Create Traffic Manager profile ...

Name *
Contoso-TMProfileIT ✓
.trafficmanager.net

Routing method
Priority ▼

Subscription *
Azure for Students ▼

Resource group *
Contoso-RG-TM1 ▼
[Create new](#)

Resource group location ⓘ
East US ▼

[Create](#) [Automation options](#)

5. Click Create.

Contoso-TMProfileIT Traffic Manager profile

Search (Ctrl+/) << Enable profile Disable profile Refresh Move Delete profile

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Configuration
- Real user measurements
- Traffic view
- Endpoints
- Properties
- Locks

Monitoring

...

Essentials [JSON](#)

Resource group (move) : [Contoso-RG-TM1](#) DNS name : http://contoso-tmprofileit.trafficmanager.net

Status : Enabled Monitor status : Inactive

Subscription (move) : [Azure for Students](#) Routing method : Priority

Subscription ID : 22326a92-2476-4fb9-bdc9-48f3ffdd5831

Tags (edit) : [Click here to add tags](#)

Search endpoints

Name	↑↓	Status	↑↓	Monitor status	↑↓	Type	↑↓	Priority
No results.								

Task 3: Add Traffic Manager endpoints

1. On the Azure portal home page, click All resources, then click on Contoso-TMProfile in the resources list.

The screenshot displays the Azure portal interface for a Traffic Manager profile named 'Contoso-TMProfileIT'. The left-hand navigation pane is visible, showing sections for Overview, Settings, and Monitoring. The main content area is titled 'Contoso-TMProfileIT' and includes a search bar and action buttons like 'Enable profile', 'Disable profile', 'Refresh', 'Move', and 'Delete profile'. The 'Essentials' tab is selected, showing details such as Resource group (Contoso-RG-TM1), Status (Enabled), Subscription (Azure for Students), and DNS name (http://contoso-tmprofileit.trafficmanager.net). Below the essentials, there is a table for endpoints with columns for Name, Status, Monitor status, Type, and Priority. The table currently displays 'No results'.

2. Under Settings, select Endpoints, and then click Add.



Add endpoint

Contoso-TMProfileIT



Type * ⓘ

Azure endpoint



Name *

myPrimaryEndpoint



Target resource type

App Service



Target resource *

ContosoWebAppEastUSIT (East US)



Priority *

1

Custom Header settings ⓘ

☐

Add as disabled

Add

4. Click Add.

Contoso-TMProfileIT | Endpoints Traffic Manager profile

Search (Ctrl+/) << + Add Refresh

Search endpoints

Name ↑↓	Status ↑↓	Monitor status ↑↓	Type ↑↓	Priority ↑↓	
myPrimaryEndpoint	Enabled	Checking endpoint	Azure endpoint	1	...

- Repeat steps 2-4 above to create the failover endpoint. Use the same settings as before except for the information in the table below.



Add endpoint

Contoso-TMProfileIT



Type * ⓘ

Azure endpoint



Name *

myFailoverEndpoint



Target resource type

App Service



Target resource *

ContosoWebAppWestEuropeIT (West Europe)



Priority *

2

Custom Header settings ⓘ

☐

Add as disabled

Add

6. Setting a priority of 2 means that traffic will route to this failover endpoint if the configured primary endpoint becomes unhealthy. + 7. The two new endpoints are displayed in the Traffic Manager profile. Notice that after a few minutes the Monitoring status should change to Online.

Name	Status	Monitor status	Type	Priority
myPrimaryEndpoint	Enabled	Degraded	Azure endpoint	1
myFailoverEndpoint	Enabled	Degraded	Azure endpoint	2

Task 4: Test the Traffic Manager profile

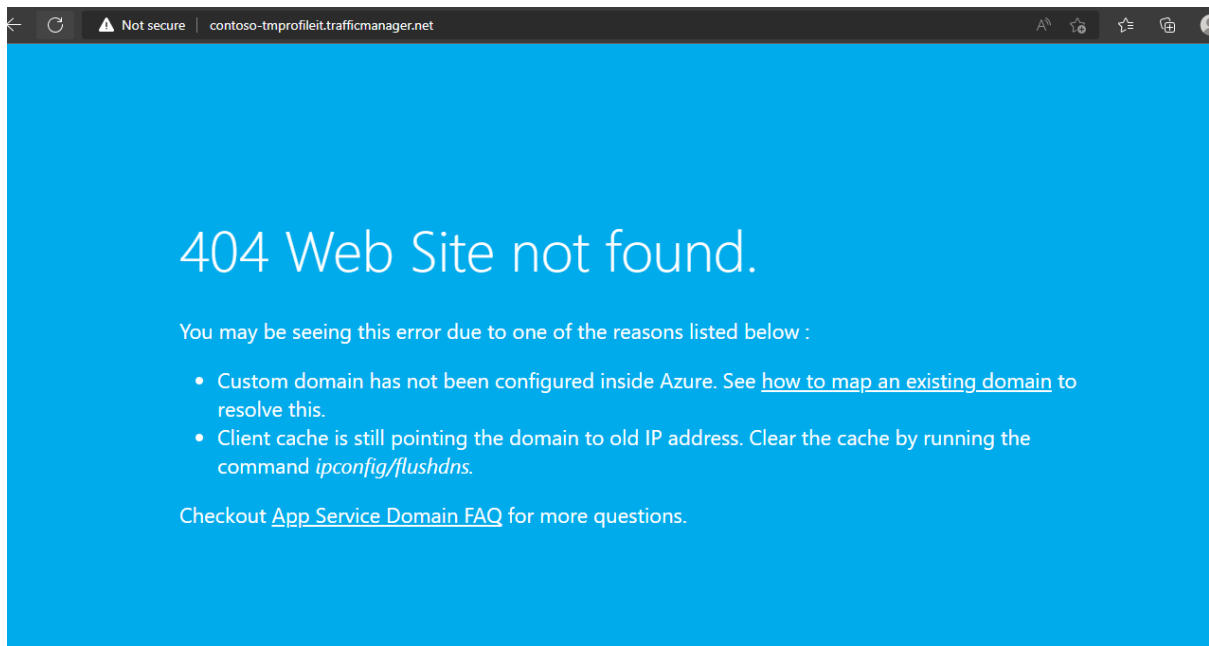
1. On the Contoso-TMProfile page, click Overview.+2. On the Overview screen, copy the DNS name entry to the clipboard (or take note of it somewhere).

Copy to clipboard

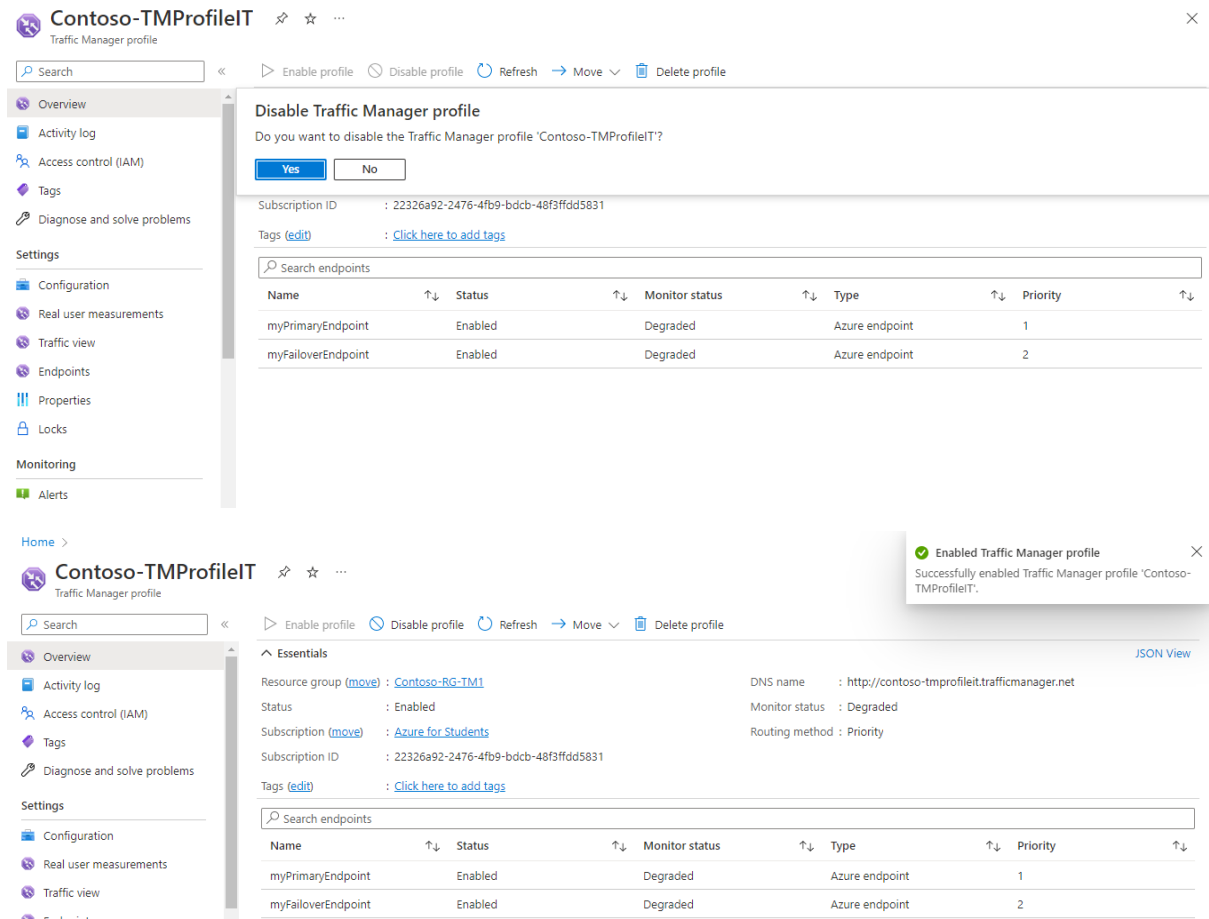
JSON View

Name	Status	Monitor status	Type	Priority
myPrimaryEndpoint	Enabled	Degraded	Azure endpoint	1
myFailoverEndpoint	Enabled	Degraded	Azure endpoint	2

3. Open a web browser tab, and paste (or enter) the DNS name entry (contoso-tmprofile.trafficmanager.net) into the address bar, and press Enter.



4. The web app's default web site should be displayed. If you get 404 Web Site not found message, Disable profile from Contoso-TMProfilexx Traffic Manager profile overview page and Enable profile. Then refresh the webpage.



7. On the Contoso-TMProfile page, on the overview screen, select myPrimaryEndpoint. +8. On the myPrimaryEndpoint page, under Status, click Disabled, and then click Save.

myPrimaryEndpoint ...

Contoso-TMProfileIT

 Save  Discard  Delete

Status

Disabled Enabled

Monitor status

Degraded

Type

Azure endpoint

Target resource type

App Service

*Target resource

ContosoWebAppEastUSIT

Priority *

1

Custom Header settings ⓘ

8. Close the myPrimaryEndpoint page (click the X in the top right corner of the page).+10. On the Contoso-TMProfile page, the Monitor status for myPrimaryEndpoint should now be Disabled.

Contoso-TMProfileIT | Endpoints

Traffic Manager profile

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Real user measurements

Traffic view

Endpoints

Properties

Locks

Monitoring

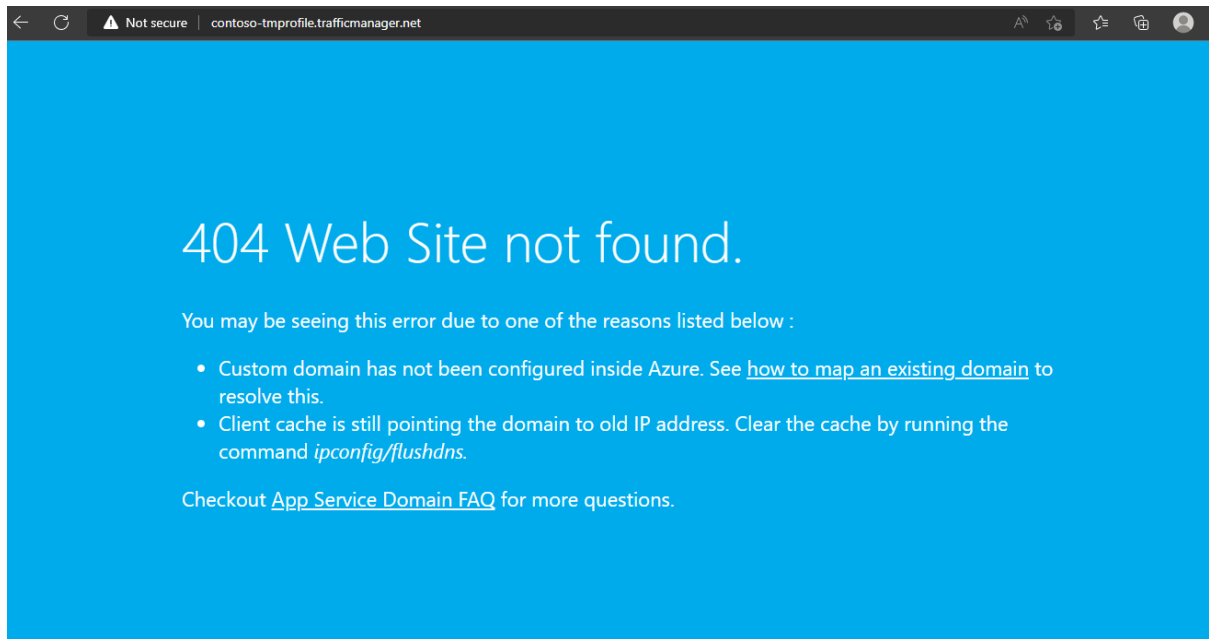
Alerts

+ Add Refresh

Search endpoints

Name ↑↓	Status ↑↓	Monitor status ↑↓	Type ↑↓	Priority ↑↓
myPrimaryEndpoint	Enabled	Degraded	Azure endpoint	1
myFailoverEndpoint	Enabled	Degraded	Azure endpoint	2

12. Open a new web browser session, and paste (or enter) the DNS name entry (contoso-tmpprofile.trafficmanager.net) into the address bar, and press Enter



Task 4: Test the Traffic Manager profile

1. On the Contoso-TMProfile page, click Overview.