# How to Create and Configure Azure Traffic Manager

Azure Traffic Manager provides **DNS** level Traffic Routing, Load balances **Public Endpoint Application** across Global Azure Regions with failover Capabilities.

Benefits:

- High Availability & Responsiveness
- Distribute Traffic to Closest Endpoint to Improve Performance.
- Endpoint Monitoring - Monitors Health of endpoints
- Automatic failover when endpoint fails
- Distribute Traffic based on traffic routing methods
- No Application Downtime during Maintenance
- Supports Hybrid Application
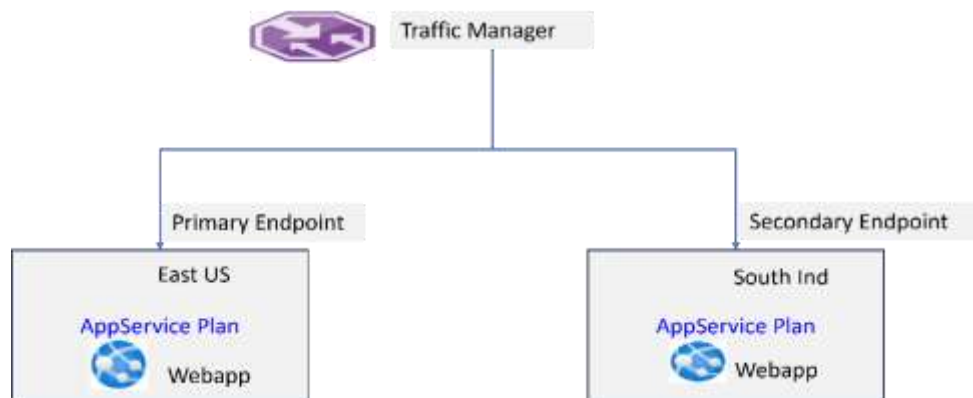
Traffic Manager continuously monitor the web application if the primary site is unavailable, it will automatically failover to the secondary site. There are 6(Priority, weighted, performance, geographic, subnet and multi-value) Types of routing Options, we can combine this option and create routing traffic profiles based on Business requirement.

Here in this Exercise, we create a simple Traffic manage profile to deliver High Availability for Web Application.

Step 1: Create first webapp in East US.
Step 2: Create second webapp in South India.
Step 3: Create Traffic Manager Profile
Step 4: Configure Traffic manager Endpoints.
Step 5: Test Traffic Manager
Step 6: Clean-up the Resource

Login to Azure Portal.
Step 1: Create Webapp in East US.
Create Web app (search webapp from Marketplace)
Create New Resource Group RGTM01
Enter Webapp name as *WebAppEastUS01*, and select region **EastUS.**
Select Runtime stack ASP.net
Under Pricing Plan, Create New App Service Plan.

Step 2: Create Webapp in South ind.
Create Web app (search webapp from Marketplace)
Create New Resource Group RGTM01
Enter Webapp name as *WebAppSouthInd01*, and select region **South India.**
Select Runtime stack ASP.net
Under Pricing Plan, Create New App Service Plan.

Create Web App

Instance Details

Need a database? Try the new Web + Database experience. ⧉

Name * WebAppSouthInd01 ✓
.azurewebsites.net

Publish * ● Code ○ Docker Container ○ Static Web App

Runtime stack * ASP.NET V4.8 ⌄

Operating System * ○ Linux ● Windows

Region * South India ⌄
ⓘ Not finding your App Service Plan? Try a different region or select your App Service Environment.

Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.
Learn more ⧉

Windows Plan (South India) * ⓘ (New) AppServicePlanSouthInd01 ⌄
Create new

Pricing plan Standard S1 (100 total ACU, 1.75 GB memory, 1 vCPU) ⌄
Explore pricing plans

Zone redundancy

An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed Learn more ⧉

[Review + create] [< Previous] [Next : Deployment >]

In Appservice, Overview page view the webapp created and running.

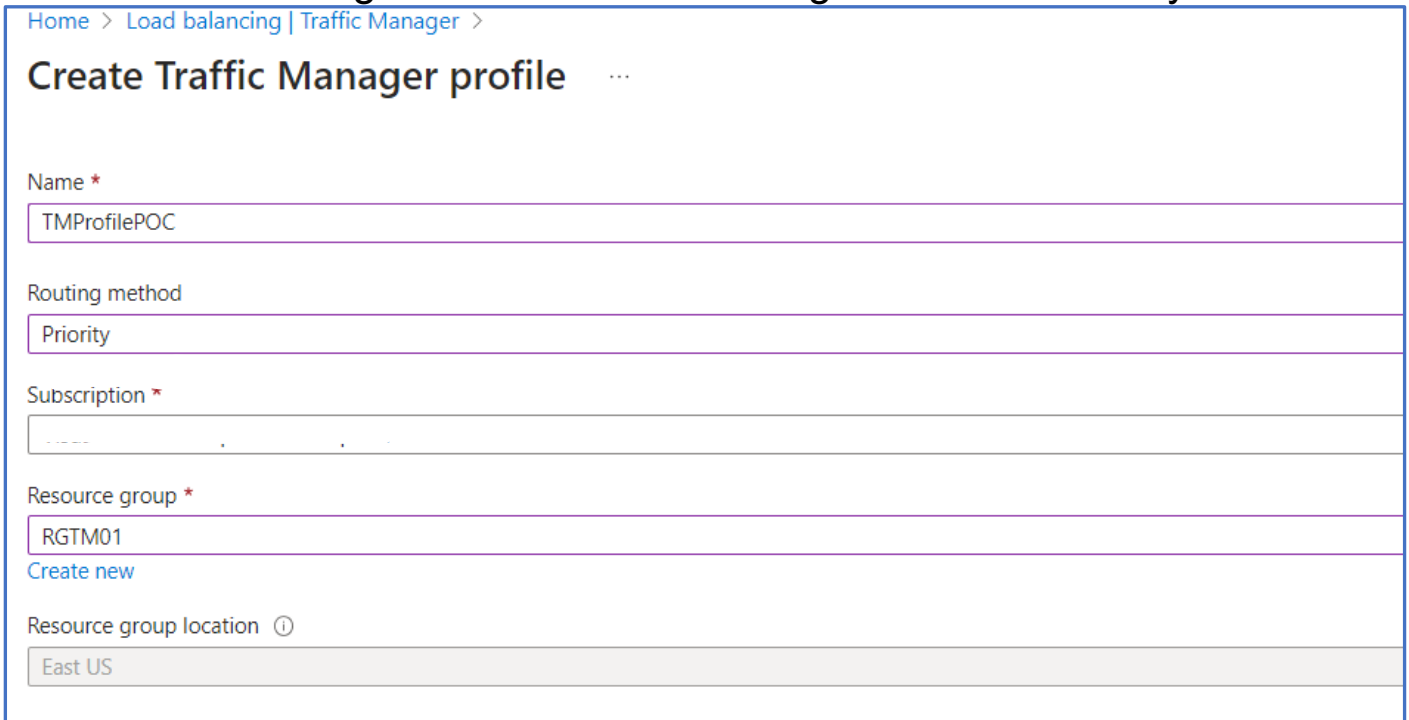**Step 3: Create Traffic Manager Profile**
Create Resource -> Search for Traffic Manager -> Create.
Enter Traffic Manager Profile name as **TM*ProfilePOC*.**

Note: Traffic Manager billing is based on the number of DNS queries received by TM services.
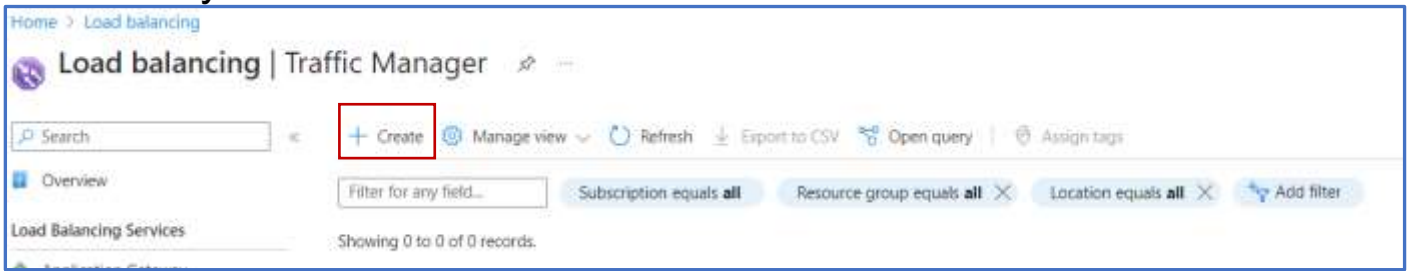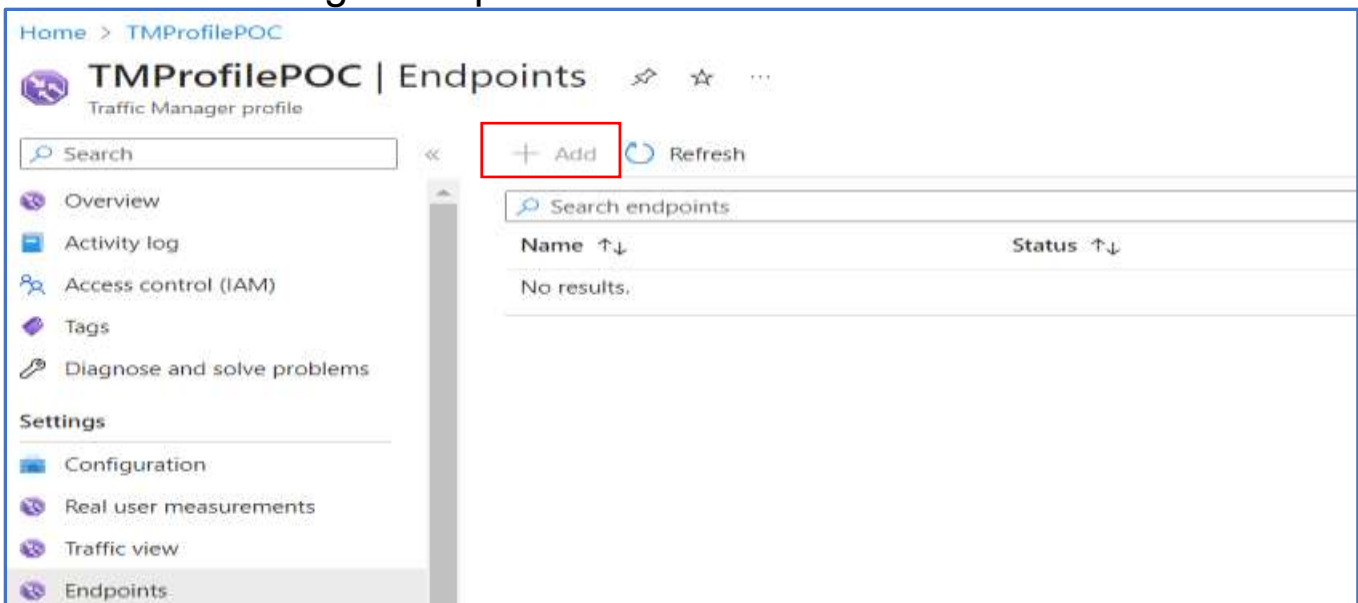

Create Traffic Manger Profile. Enter Routing method as Priority.

Step 4: Configure Traffic manager Endpoints.
Add Traffic Manager Endpoints as below

Add East *US* as primary endpoint to route all the user traffic. Add South India as a failover endpoint. When the primary endpoint is unavailable, traffic automatically routes to the failover Secondary endpoint.

Note: The Target Resource Type can be AppServices/Slot, Cloud Services and Public IP.
Add the Second Endpoint.

Add endpoint

TMProfilePOC

Type * ⓘ

| Azure endpoint | ⌄ |

Name *

| SecondaryEndpoint | ✓ |

Enable Endpoint

☑

Target resource type

| App Service | ⌄ |

Target resource *

| WebAppSouthInd01 (South India) | ⌄ |

Priority *

| 2 |

Custom Header settings ⓘ

| Configure in this format, host:contoso.com,customheader:contoso |

⚠ Do NOT input sensitive customer data in this field (i.e. APIKeys, Secrets, and Auth tokens etc.).

Health Checks ⓘ

◉ Enable
Health check will determine if traffic can be served to the endpoint.

◯ Always serve traffic
No health check will run. Traffic will be always served to the endpoint.

Add

Home / TMProfilePOC

TMProfilePOC | Endpoints 📌 ☆ …
Traffic Manager profile

🔍 Search   «   + Add   ↻ Refresh

🌐 Overview
📘 Activity log
🔑 Access control (IAM)
🏷 Tags
🔧 Diagnose and solve problems
Settings

🔍 Search endpoints

Name ↑↓	Status ↑↓	Monitor status ↑↓	Type ↑↓	Priority ↑↓
PrimaryEndpoint01	Enabled	Checking endpoint	Azure endpoint	1
SecondaryEndpoint	Enabled	Checking endpoint	Azure endpoint	2

Step 5: Test Traffic Manager

From the Traffic manager Profile Overview Page, Copy the DNS name and paste it in Brower.
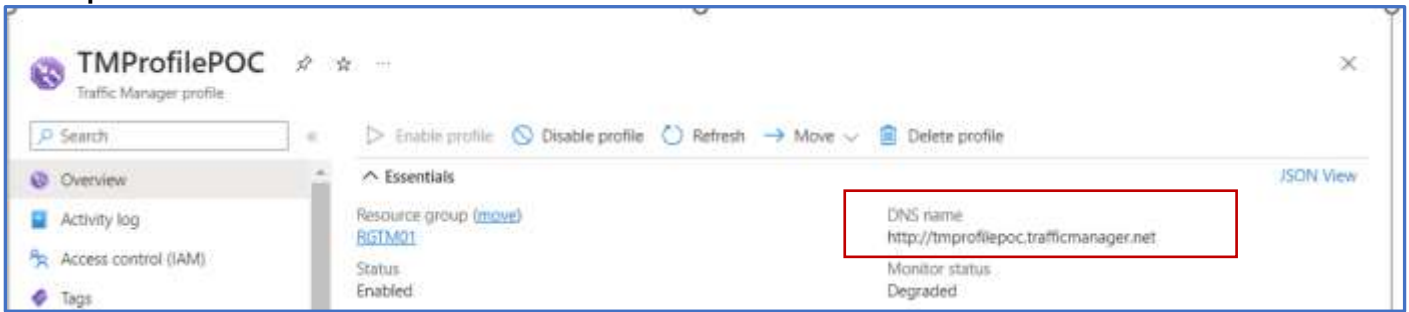
Now Disable the Primary Endpoint and Check the availability of Website from failover secondary endpoint.

Step 6: Clean-up the Resource
Select the Resource Group and Delete.