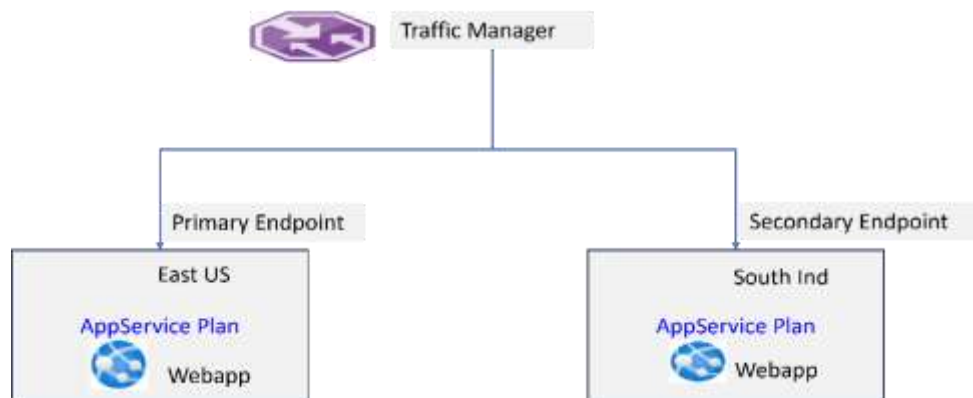


How to Create and Configure Azure Traffic Manager

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.

The screenshot shows the 'Create Web App' configuration page in the Azure Portal. The page is titled 'Create Web App' and includes a breadcrumb 'Home >'. Under 'Instance Details', there is a link 'Need a database? Try the new Web + Database experience.' The 'Name' field is 'WebappEasUS01' with a green checkmark and '.azurewebsites.net' below it. The 'Publish' section has radio buttons for 'Code' (selected), 'Docker Container', and 'Static Web App'. The 'Runtime stack' is 'ASP.NET V4.8'. The 'Operating System' has radio buttons for 'Linux' and 'Windows' (selected). The 'Region' is 'East US' with a note: 'Not finding your App Service Plan? Try a different region or select your App Service Environment.' Under 'Pricing plans', there is a link 'App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. Learn more'. The 'Windows Plan (East US)' dropdown is '(New) AppServicePlanEastUS' with a 'Create new' link. The 'Pricing plan' dropdown is 'Standard S1 (100 total ACU, 1.75 GB memory, 1 vCPU)' with an 'Explore pricing plans' link. The 'Zone redundancy' section has a note: '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'. At the bottom, there are three buttons: 'Review + create' (blue), '< Previous', and 'Next : Deployment >'.

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.

Home >

Create Web App

Instance Details

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

Name * ✓
.azurewebsites.net

Publish * Code Docker Container Static Web App

Runtime stack * ✓

Operating System * Linux Windows

Region * ✓
 ⓘ 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) * ⓘ ✓
[Create new](#)

Pricing plan ✓
[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](#)

Next steps

Enable Your App Service plan and the app in it will be zone

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

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

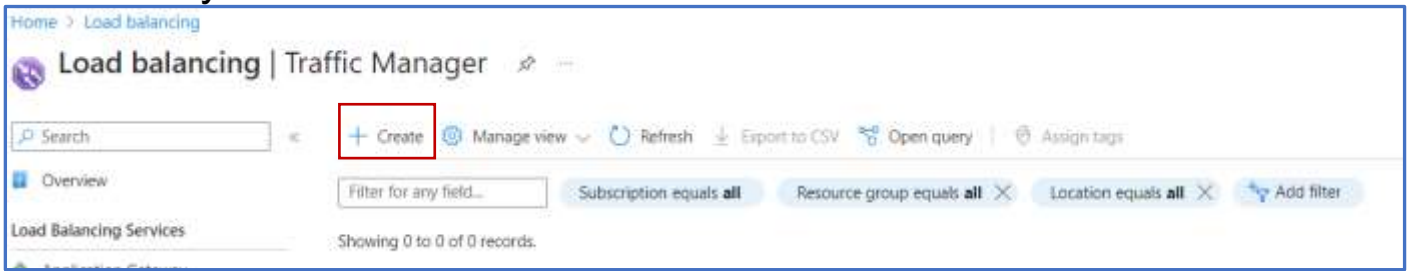
Name ↑↓	Status ↑↓	App Type ↑↓	Location ↑↓	Pricing Tier ↑↓	App Service Plan ↑↓
<input type="checkbox"/> WebappEastUS01	Running	Web App	East US	Standard	AppServicePlanEastUS
<input type="checkbox"/> WebAppSouthInd01	Running	Web App	South India	Standard	AppServicePlanSouthInd01

Step 3: Create Traffic Manager Profile

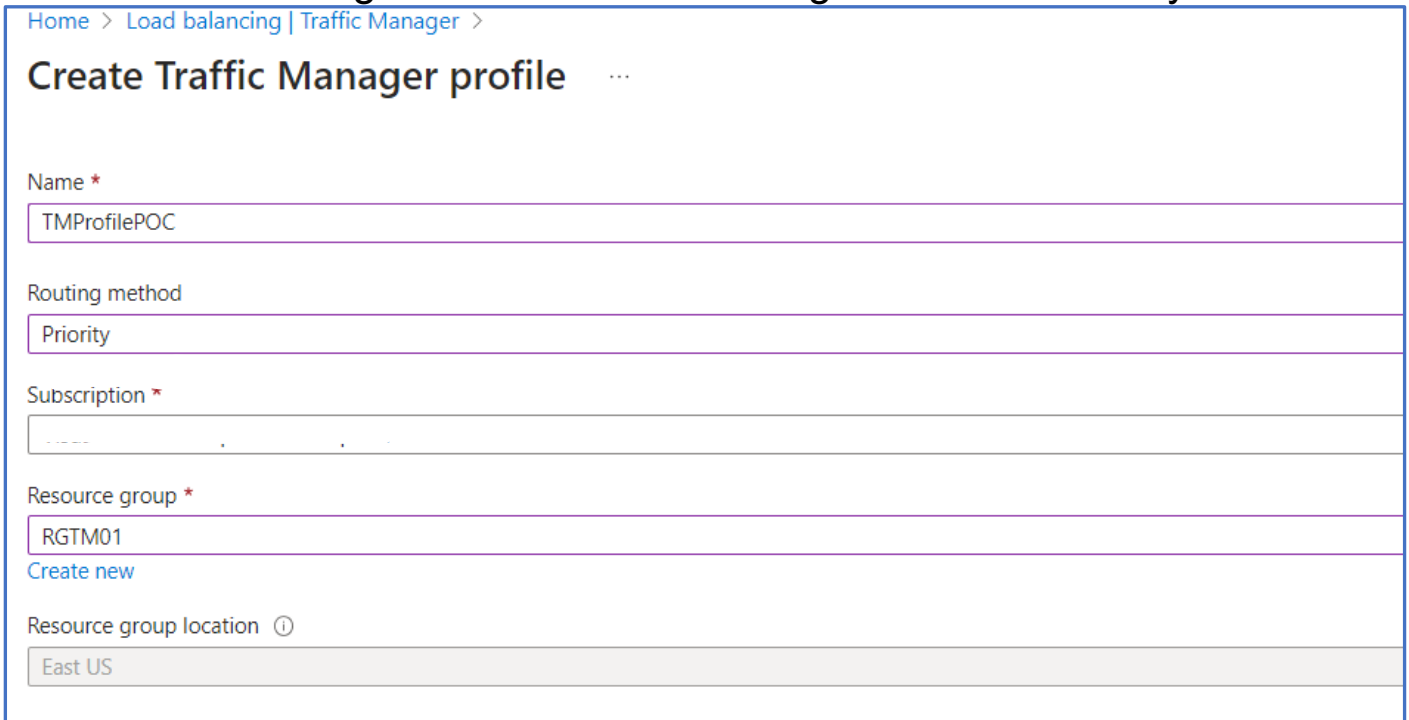
Create Resource -> Search for Traffic Manager -> Create.

Enter Traffic Manager Profile name as **TMProfilePOC**.

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

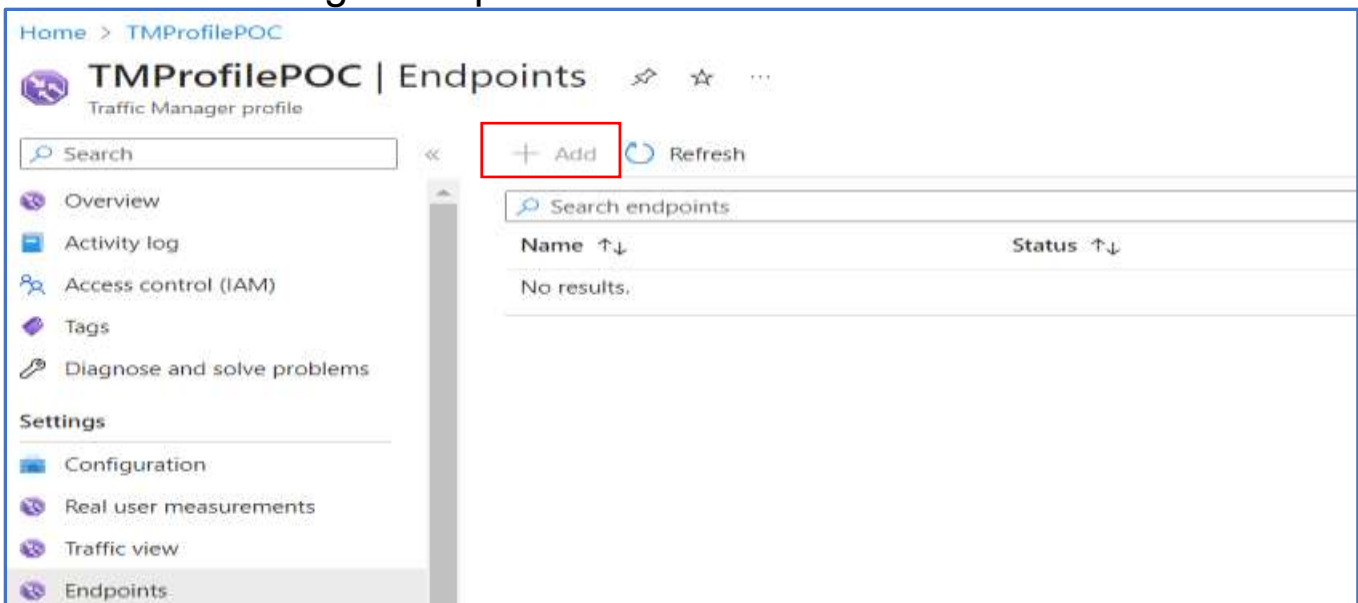


Create Traffic Manger Profile. Enter Routing method as Priority.



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.

Add endpoint ×

TMPProfilePOC

Type * ⓘ
Azure endpoint

Name *
PrimaryEndpoint01 ✓


Enable Endpoint

Target resource type
App Service

Target resource *
WebappEasUS01 (East US)

Priority *
1

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

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

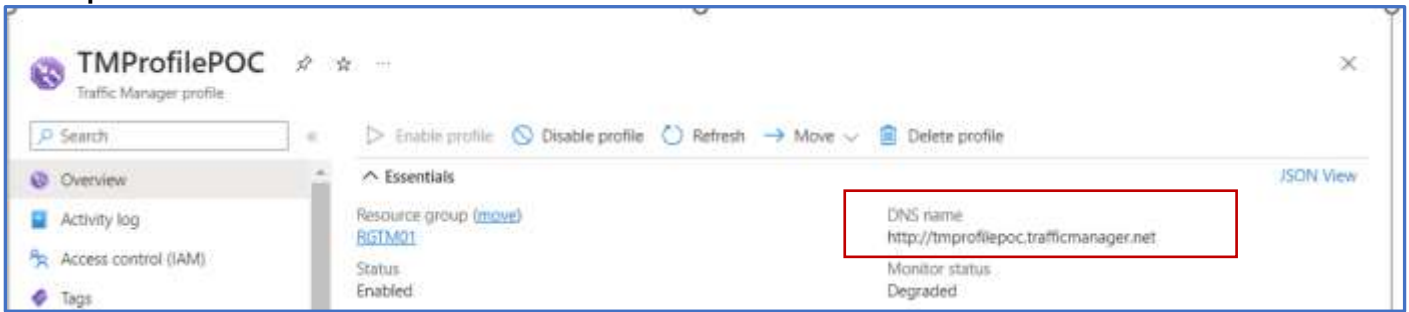
Settings

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.

