

Azure Front Door & Manager– DEMO

Step-by-Step Configuration

1. Log in to the Azure portal at <https://portal.azure.com>.
2. Create an RG “azurefrontdoor-demo” on any one of the regions say “East US” wherein App Service is available for your (free?) subscription.
3. Create a .Net core App Service “afd-demo-eastasia” based out “East Asia” Region.
4. Create a Java App Service “afd-demo-centralusa” based out “Central US” Region.
5. Note → Creating 2 app service web apps in different region to validate the load balancing and routing feature of Azure Front Door. That is, based on the location from where you access front door end, you will be routed to.
6. Create Azure Front Door profile as shown below

[Home](#) > [Front Door and CDN profiles](#) > [Compare offerings](#) >

Create a front door profile ...

Microsoft Azure

Name *

AFD-DEMO ✓

Tier * ⓘ



Standard

Content delivery optimized



Premium

Security optimized

Endpoint settings

Endpoint name *

azurefrontdoor ✓

Endpoint hostname

azurefrontdoor-bag6h3d5f3cvgtgh.z01.azurefd.net

Origin type *

App services ▼

Origin host name *

afd-demo-eastasia.azurewebsites.net ▼

[Review + create](#)

[< Previous](#)

[Next: Tags >](#)

[Automation options](#)

7. Once its created successfully, configure it's origin which is nothing but kind of backend pool to load balance global user traffic based on it its location.

afddemo | Origin groups Front Door and CDN profiles

Search (Ctrl+/) Add Refresh Associate endpoint and route

Search by name Provisioning state: All Reset

Name	Endpoint	Routes	Provisioning state
default-origin-group	afddemo	1 associated route	Succeeded
		default-route	Succeeded

Update origin group Microsoft Azure

An origin group is a set of origins to which Front Door load balances your client requests. [Learn more](#)

Name: default-origin-group

Origins
Origins are the application servers where Front Door will route your client requests. Utilize any publicly accessible application server, including App Service, Traffic Manager, Private Link, and many others. [Learn more](#)

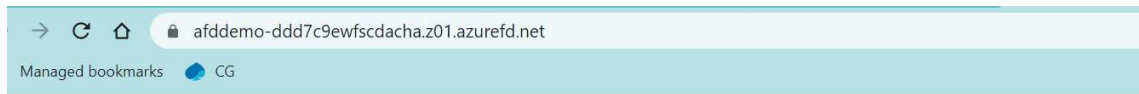
+ Add an origin

Origin host name	Status	Priority	Weight
afd-demo-eastasia.azurewebsites.net	Enabled	1	1000
afd-demo-centralusa.azurewebsites.net	Enabled	1	1000

Session affinity ☐ Enable session affinity

Update Cancel

8. Review the routing rules setting from "Front Door Manager"
9. Now access the endpoint url of front door such as <https://afddemo-ddd7c9ewfscdacha.z01.azurefd.net/>
10. You should be able to access the app service which is hosted nearby you. In this case East Asia, .net based app.



Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.



 Supporting Node.js, Java, .NET and more

Haven't deployed yet?
Use the deployment center
to publish code or set up
continuous deployment.

[Deployment center](#)

Starting a new web site?
Follow our Quickstart
guide to get a web app
ready quickly.

[Quickstart](#)

11. If someone from US access it, it should show java app

Traffic Manager - Demo

12. Create new traffic manager profile.

Microsoft Azure Search resources, services, and docs (G+)

Home > Load balancing | Traffic Manager >

Create Traffic Manager profile ...

Name *
trafficmanagerdemo

Routing method
Performance

Subscription *
CloudzDevOps-Training

Resource group *
azurefrontdoor-demo
[Create new](#)

Resource group location ⓘ
East US

13. Configure end point to point above created 2 web apps from different region.

Home > cloudzdevops

cloudzdevops | Endpoints ☆ ☆ ...
Traffic Manager profile

Search << + Add ↻ Refresh

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

Settings
Configuration
Real user measurements
Traffic view
Endpoints

Search endpoints

Name ↑↓	Status ↑↓	Monitor status ↑↓	Type ↑↓	Location ↑↓
eastus2-endpoint	Enabled	Degraded	Azure endpoint	East US 2
cent-ind-endpoint	Enabled	Degraded	Azure endpoint	Central India

14. You can access now traffic manager and check if you get web hosted near to you.

cloudzdevops
Traffic Manager profile

Search

Enable profile Disable profile Refresh Move Delete profile

Essentials

Resource group (move) : [azurefrontdoor-demo](#) DNS name : <http://cloudzdevops.trafficmanager.net>

Status : Enabled Monitor status : Degraded

Subscription (move) : [CloudzDevOps-Training](#) Routing method : Performance

Subscription ID : 6e636a88-0376-4c2e-8e2b-802913740787


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

Search endpoints

Name	↑↓ Status	↑↓ Monitor status	↑↓ Type	↑↓ Location
eastus2-endpoint	Enabled	Degraded	Azure endpoint	East US 2
cent-ind-endpoint	Enabled	Degraded	Azure endpoint	Central India

15. We need to map this traffic manager with your actual DNS by creating CNAME. Since we have not done it, it shows degraded in monitoring.

→ ↻ 🏠 🔒 afddemo-ddd7c9ewfscdacha.z01.azurefd.net

 **Microsoft Azure**

Hey, Java developers!

Your app service is up and running.
Time to take the next step and deploy your code.

Have your code ready?
Use deployment center to get code published from your client or setup continuous deployment.

[Deployment Center](#)

Don't have your code yet?
Follow our quickstart guide and you'll have a full app ready in 5 minutes or less.

[Quickstart](#)

Technical Information
java.version: 11.0.13
java.home: /opt/java/openjdk

16. NOTE – Load balancer working not only based on location but also availability of other app service. If you access from India and India website is busy in servicing content to other, then you may see USA website.