# Lab 7: Azure Front Door

## Objective

1. Provision a Front Door
2. Add a custom rule to WAF policy

**Note:**

1. All the steps are to be done within Azure Portal.
2. There will be breakout rooms assigned and each room will have a group number [1-5]
3. Login into Azure Portal
   a. Go to https://portal.azure.com
   b. Login with the supplied credentials (username and password).
      i. Each group has a unique integer for their login [1-5] eg. usergroup[1-5]
      ii. For example, group number 5 will have
         1. Username: usergroup5@makecloudwork.com
         2. Password: will be provided during the class.
   c. You will then see the landing Azure homepage. Dismiss any popups/message boxes

*It's important that you enter all the resource names same as mentioned.*

## Section 1: Provision a Front Door

### Steps

1. Type **"Front Door"** on the search bar and select **"Front Door and CDN profiles"** from the drop down. You will be redirected to **"Front Door and CDN profiles".**
2. Click on **"+Create"** button
3. Select **"Azure Front Door"** and **"Quick create"**
4. Click on **"Continue to create a Front Door"**
5. **Basics Tab**
   a. Select the resource group from the dropdown.
   b. Give name to Front door as "**frontdoorsb"+"group number"** add your group number as suffix e.g. if your group number is 4, name the resource as **"frontdoorsb4"**
   c. Tier: Choose **"Standard"**
   d. Endpoint name: Enter **"apimendpoint"**
   e. Origin Type: Select **"API Management"**
   f. Origin host name: **Select APIM name that you created in the previous lab.**

g. WAF Policy: Click on **"Create New"**
   i. Name: **"wafpolicy"+group number**
h. Click on **"Review + create"**

6. **Review+Create Tab**
   a. Let the validation run and pass.
   b. Click on **"Create"** and wait for the deployment to complete
   c. Click on **"Go to resource"**. This will take you to the overview page of the newly created Front Door

## Observations

1. Open Browser and enter the endpoint hostname of the front door.
   a. [https://<endpoint name>.azurefd.net /conf/sessions](https://<endpoint name>.azurefd.net/conf/sessions)
2. You will get the results back from the APIM service.

# Section 2: Add a custom rule to WAF policy

## Steps

1. Within Front door resource, click on **"Security policies"** under Settings
2. Click on the WAF policy resource. You will be redirected to Front Door WAF policy page.
3. Click on **"Custom rules"** under Settings.
4. Click on **"+ Add custom rule"**
   a. Custom rule name: Enter "blockCountries"
   b. Status: Select **"Enabled"**
   c. Rule Type: Select **"Match"**
   d. Priority: Enter **"1"**
   e. Conditions
      i. Match type: **Geo location**
      ii. Country/Region: Check few countries that you want to block from the drop down.
   f. Action
      i. Deny traffic
   g. Click on **"Add"**
5. Click on **"Save"**

*End of Lab.*