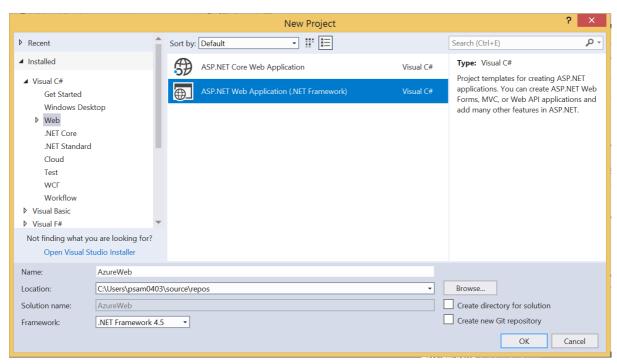
How to add Content Delivery Network (CDN) to Azure Web App

In this tutorial I'm going to show how to:

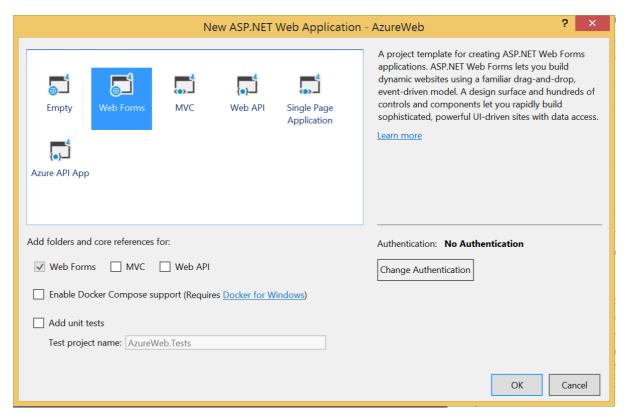
- Create an ASP.NET Web Application and publish to Azure
- Configure CDN end point to this Web Site

Step 01: Create an ASP.NET Web Application and publish to Azure

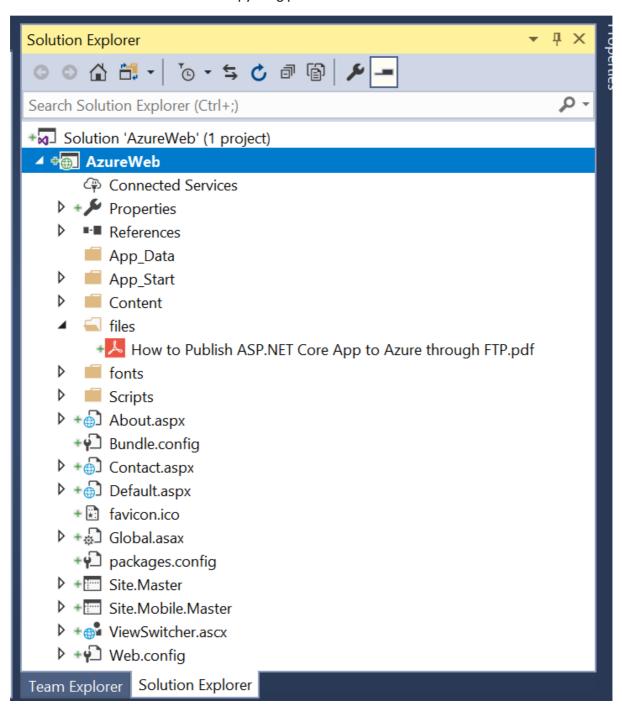
Create a new ASP.Net Web Project – Name it AzureWeb.



Web Forms



Next create a folder called files and copy a big pdf inside it.

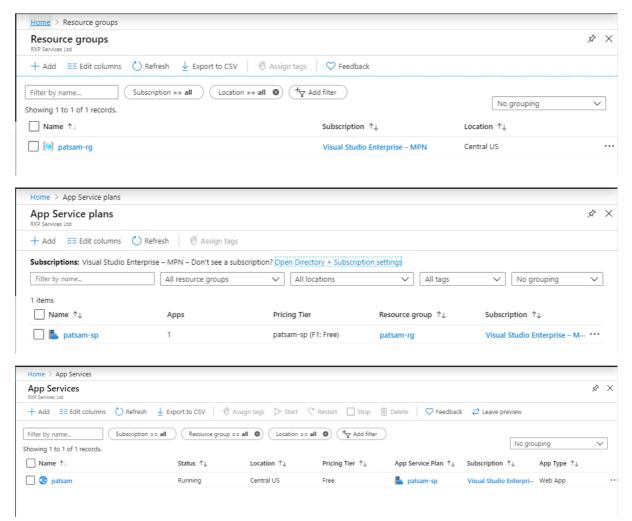


Scenario:

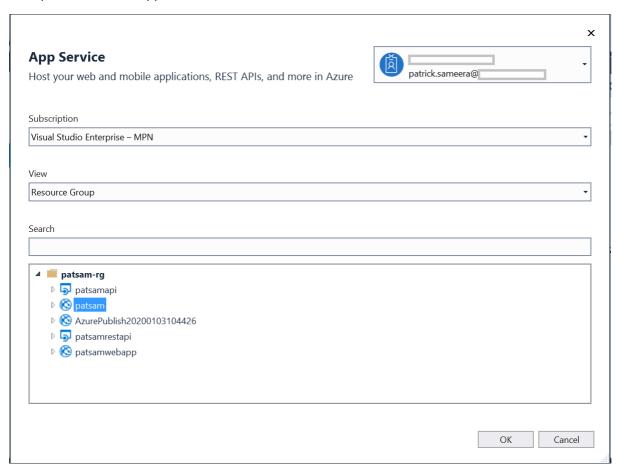
- Mind you I'm located in Melbourne Australia.
- But we are going to create an App Service Plan in Central US.
- So, we are going to access the pdf file from Australia, and it will show how the distance going to affect when delivering the file from Central US to Australia.
- Then I'm going to create a CDN end point for this web application and access the same file.
- For the first time we are going to experience some latency but for the second time it will be quicker than earlier.
- It will be faster next time because it will be cached in the CDN end point near to your location.

I have bellow resources in my Azure subscription and I'm going to use them for my tutorial.

- Resource Group: patsam-rg
- App Service Plan: patsam-sp (Central US)
- App Service: patsam

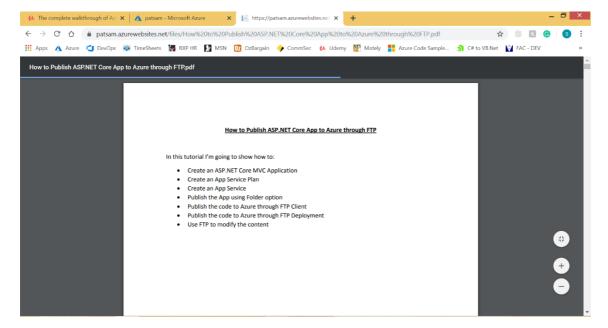


Next publish the web app.



Once the publish completed, browse the URL and access the pdf file we uploaded inside files folder. As you can see it takes bit of time.

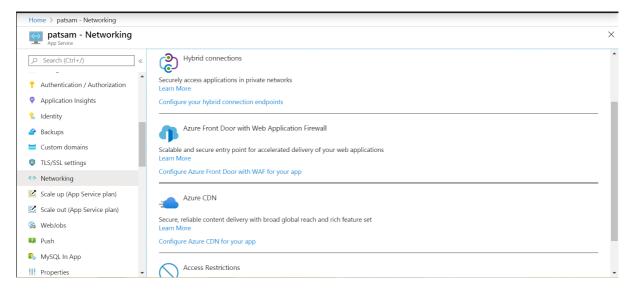
- https://patsam.azurewebsites.net/
- https://patsam.azurewebsites.net/files/How%20to%20Publish%20ASP.NET%20Core%20App%20to%20Azure%20through%20FTP.pdf



Step 02: Configure CDN end point to this Web Site

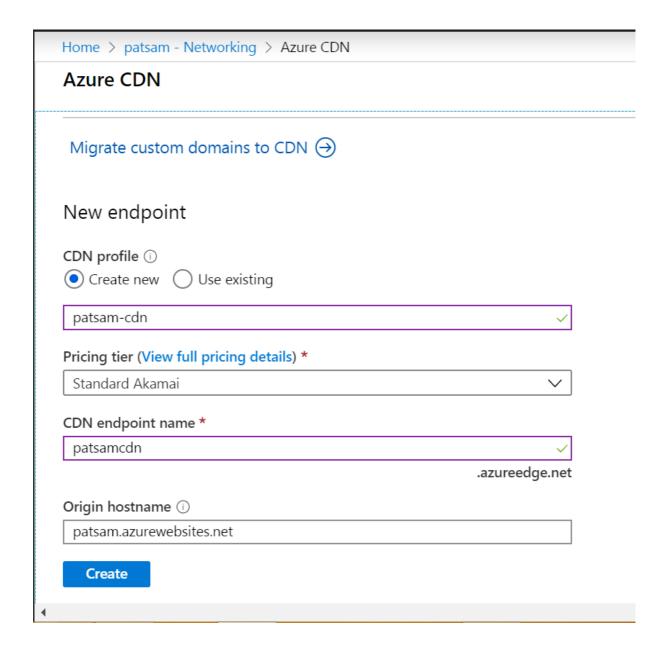
Go inside the App Service we created and click on Networking tab.

• App Service → Networking → Configure Azure CDN for your app

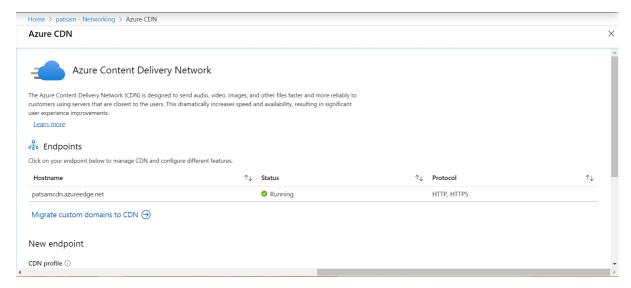


Provide relevant CDN details and click Create.

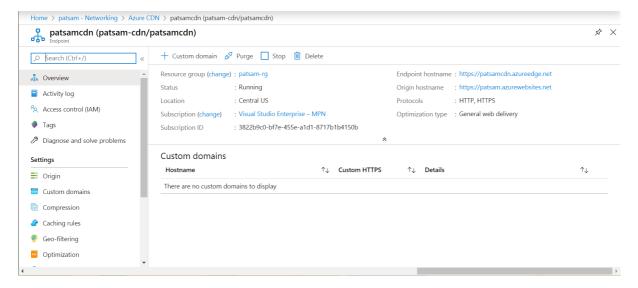
- CDN profile: patsam-cdn
- Pricing tier: Standard Akamai
- CDN end point name: patsamcdn.azureedge.net
- Origin host name: patsam.azurewebsites.net



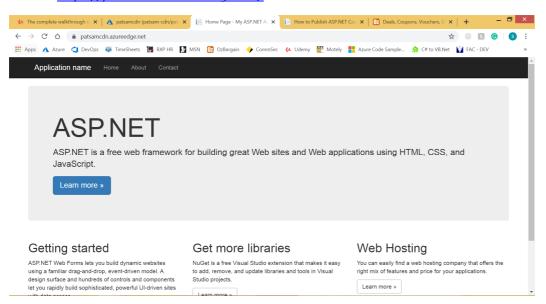
Once finish creating the CDN it should show the newly created CDN. Click on it.



We can see the CDN details.



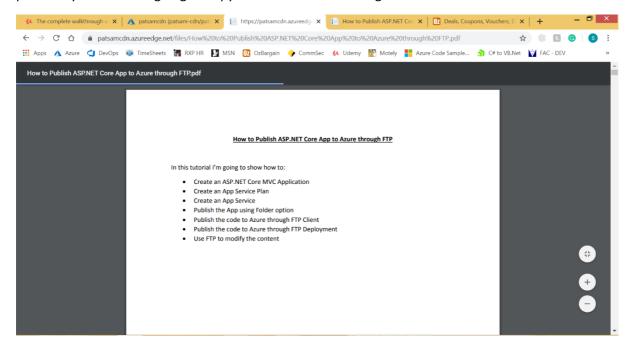
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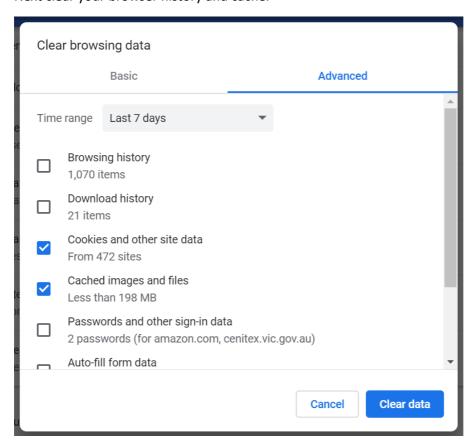
Browse the URL.

• https://patsamcdn.azureedge.net/files/How%20to%20Publish%20ASP.NET%20Core%20App%20to%20Azure%20through%20FTP.pdf

Since this is the first time, we are browsing the pdf file from the CDN end pint, it takes same time as previously because it's going to copy the file to Australian region.

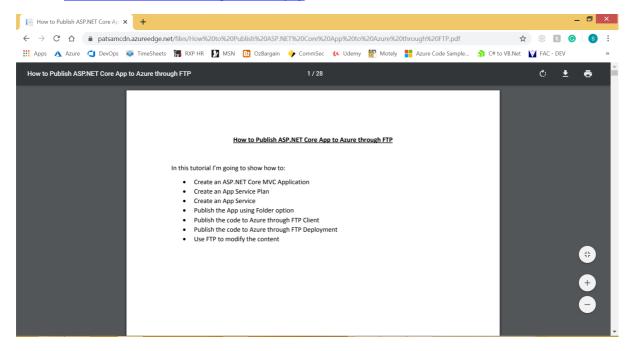


Next clear your browser history and cache.



Try browsing the URL again.

• https://patsamcdn.azureedge.net/files/How%20to%20Publish%20ASP.NET%20Core%20App %20to%20Azure%20through%20FTP.pdf



This time it loads the pdf file very quickly.

That is because this file is now cached in the CDN end point near to your location, and now onwards for any user who going to access the same file from Australian region it will be retrieved from the cache.

So that is the advantage of Content Deliver Network, where we can deliver high bandwidth content with low latency.