

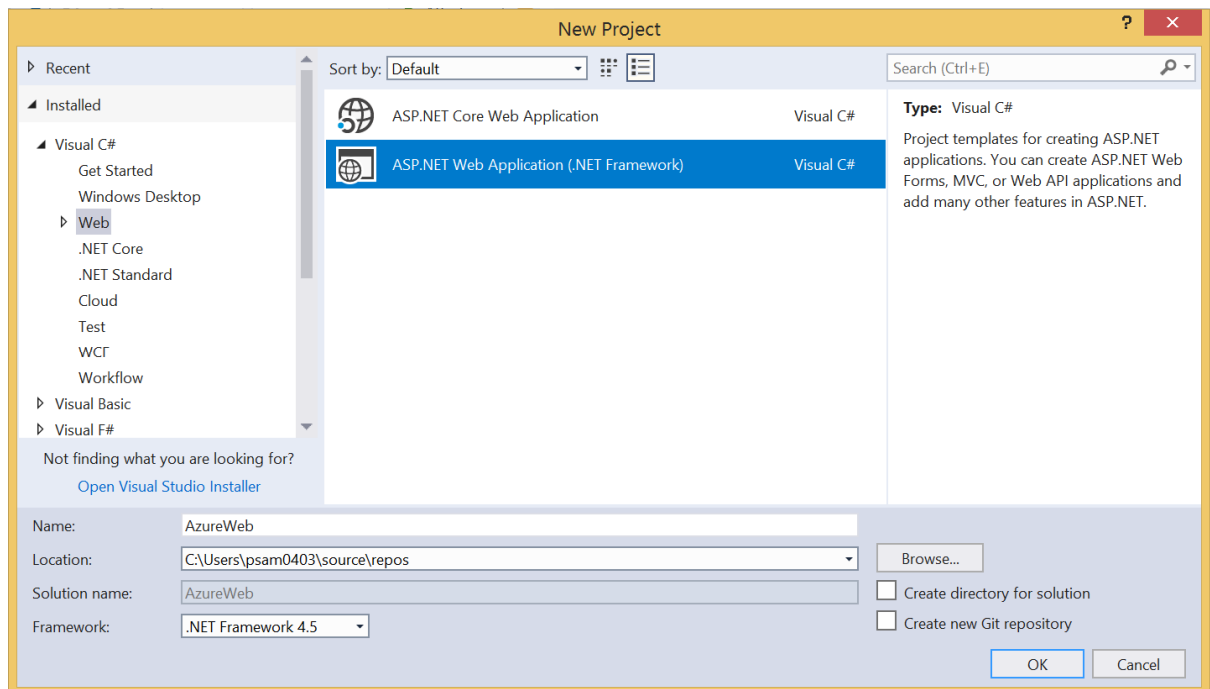
How to add Content Delivery Network (CDN) to Azure Web App

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

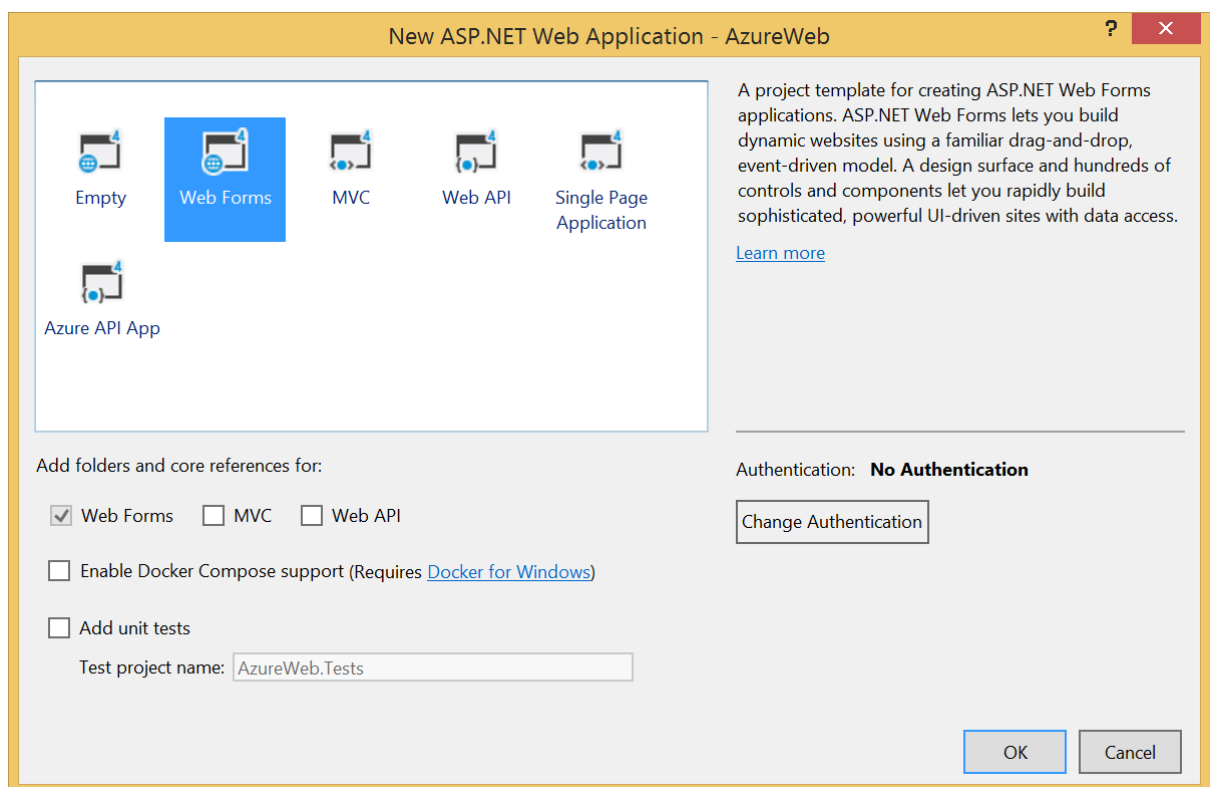
- Create an ASP.NET Web Application and publish to Azure
- Configure CDN end point to this Web Site

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

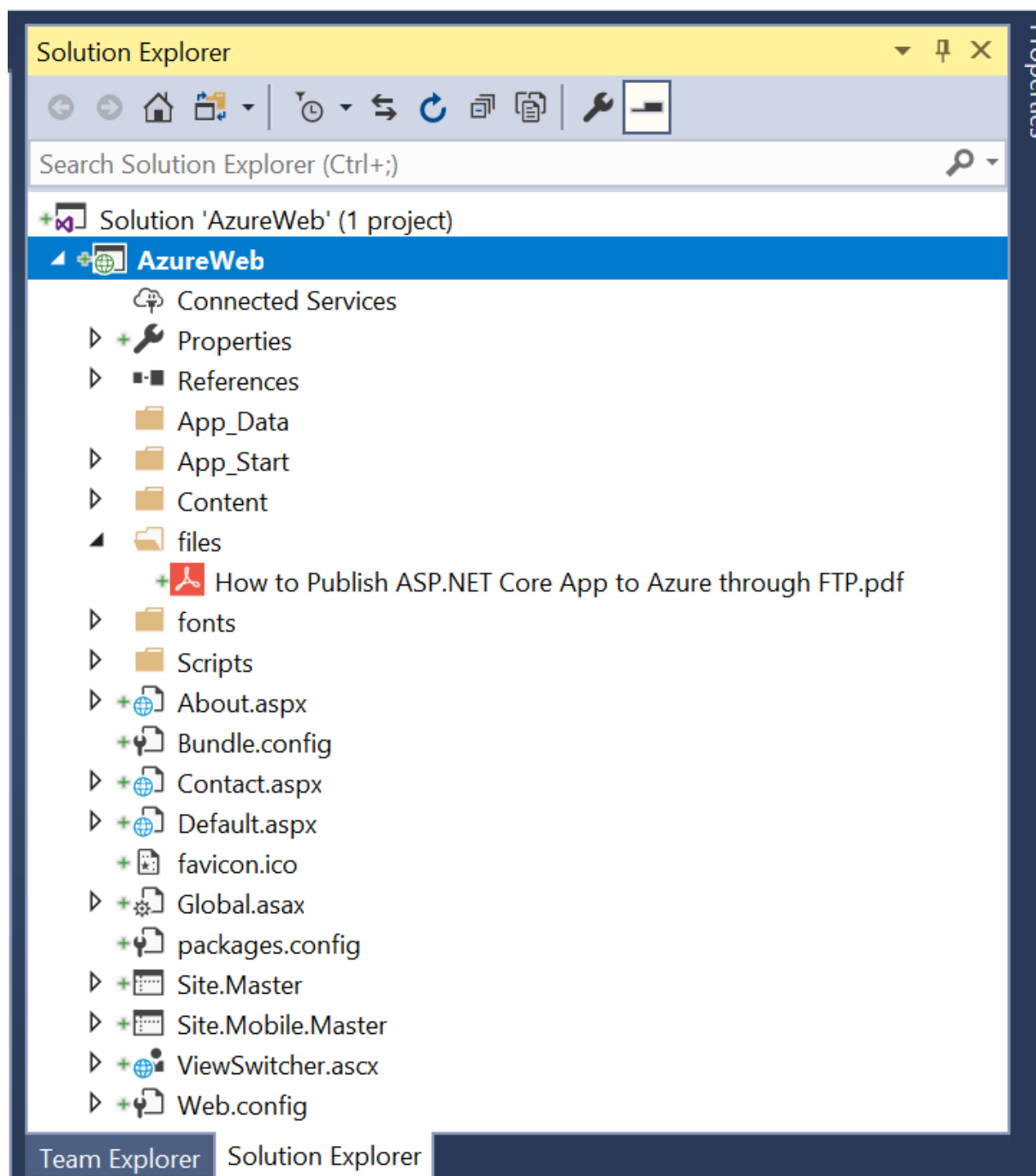
Create a new ASP.Net Web Project – Name it AzureWeb.



- 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 below 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

Home > Resource groups

Resource groups

RXP Services Ltd

+ Add Edit columns Refresh Export to CSV Assign tags Feedback

Filter by name... Subscription == all Location == all Add filter

Showing 1 to 1 of 1 records.

<input type="checkbox"/> Name ↑↓	Subscription ↑↓	Location ↑↓	
<input type="checkbox"/> patsam-rg	Visual Studio Enterprise - MPN	Central US	...

Home > App Service plans

App Service plans

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+ Add Edit columns Refresh Assign tags

Subscriptions: Visual Studio Enterprise - MPN - Don't see a subscription? [Open Directory + Subscription settings](#)

Filter by name... All resource groups All locations All tags No grouping

1 items

<input type="checkbox"/> Name ↑↓	Apps	Pricing Tier	Resource group ↑↓	Subscription ↑↓
<input type="checkbox"/> patsam-sp	1	patsam-sp (F1: Free)	patsam-rg	Visual Studio Enterprise - M... ..

Home > App Services

App Services

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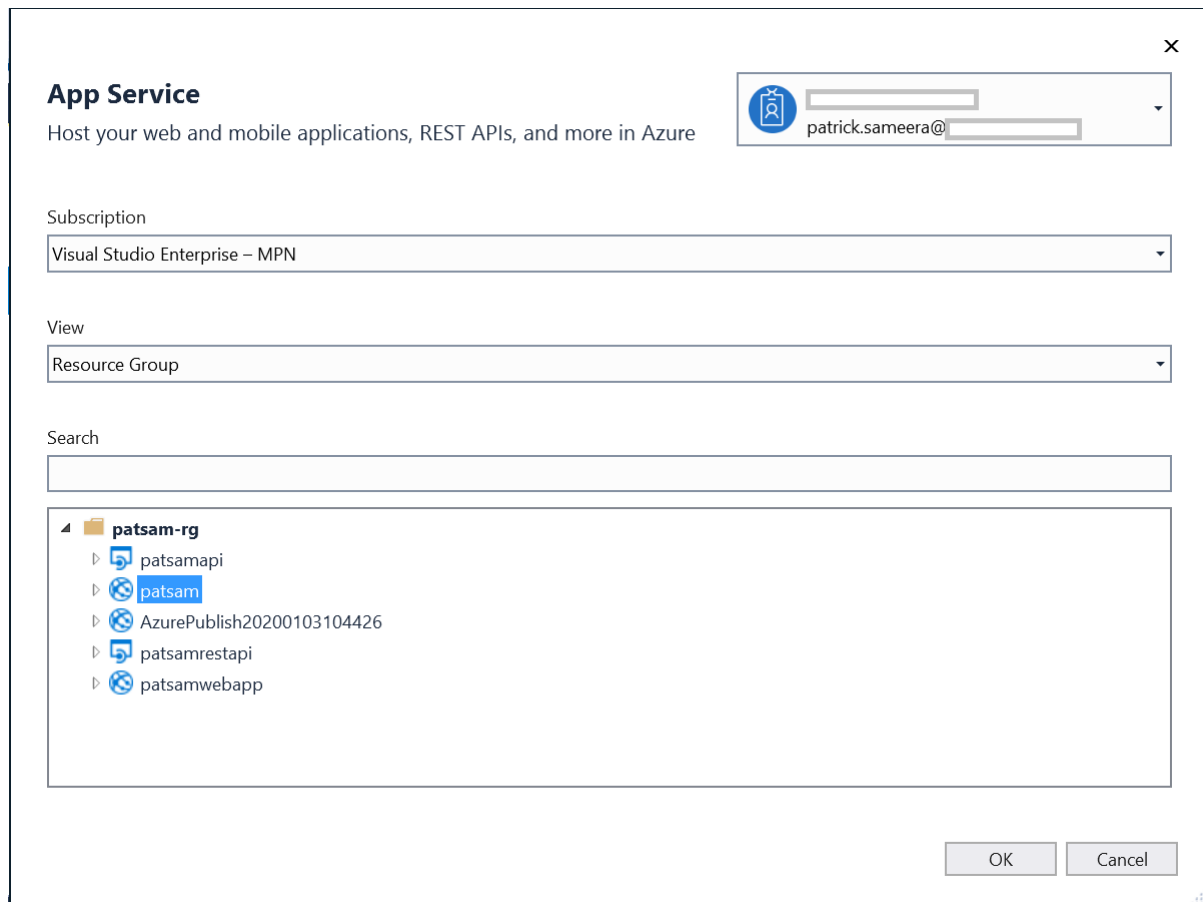
+ Add Edit columns Refresh Export to CSV Assign tags Start Restart Stop Delete Feedback Leave preview

Filter by name... Subscription == all Resource group == all Location == all Add filter

Showing 1 to 1 of 1 records.

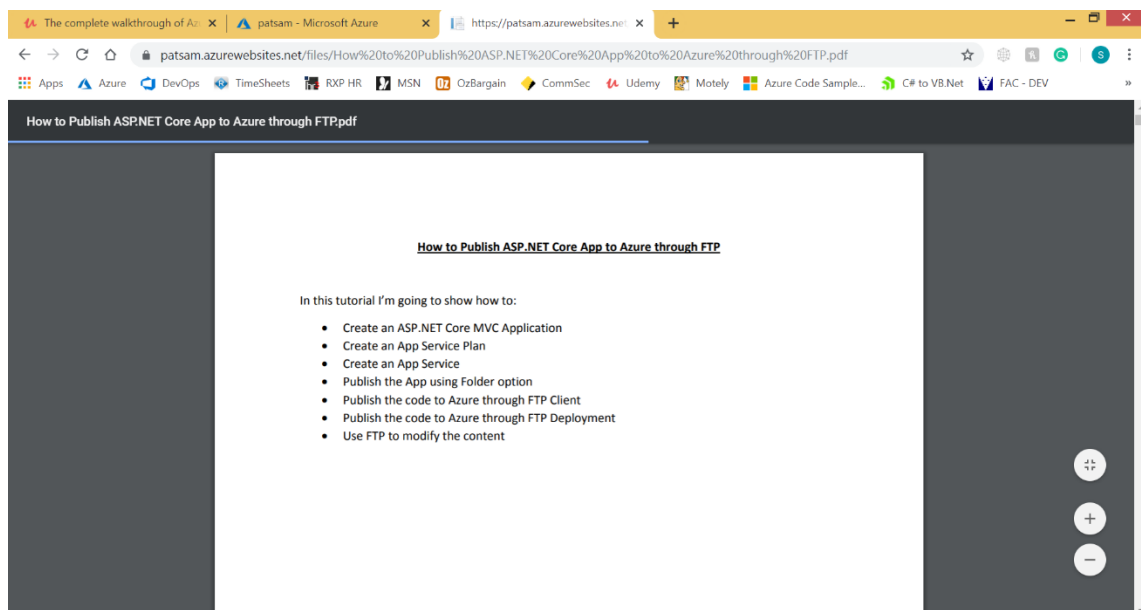
<input type="checkbox"/> Name ↑↓	Status ↑↓	Location ↑↓	Pricing Tier ↑↓	App Service Plan ↑↓	Subscription ↑↓	App Type ↑↓
<input type="checkbox"/> patsam	Running	Central US	Free	patsam-sp	Visual Studio Enterpri...	Web App ..

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.

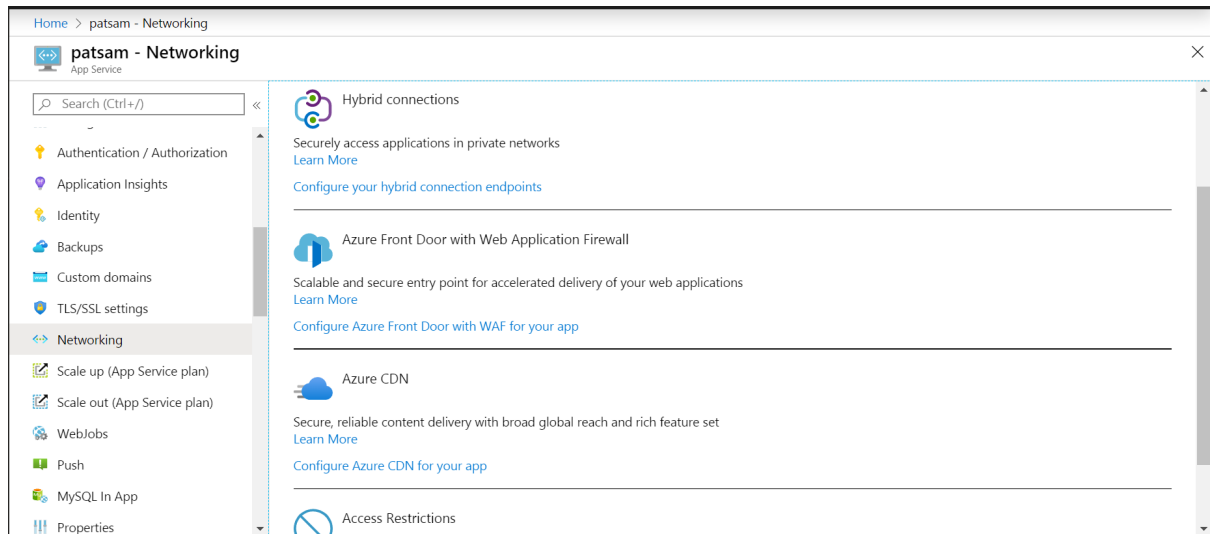
- <https://patsam.azurewebsites.net/>
- <https://patsam.azurewebsites.net/files/How%20to%20Publish%20ASP.NET%20Core%20App%20to%20Azure%20through%20FTP.pdf>



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

[Home](#) > [patsam - Networking](#) > Azure CDN

Azure CDN

[Migrate custom domains to CDN](#) →

New endpoint

CDN profile ⓘ

☒ Create new ☐ Use existing

✓

Pricing tier ([View full pricing details](#)) *

▼

CDN endpoint name *

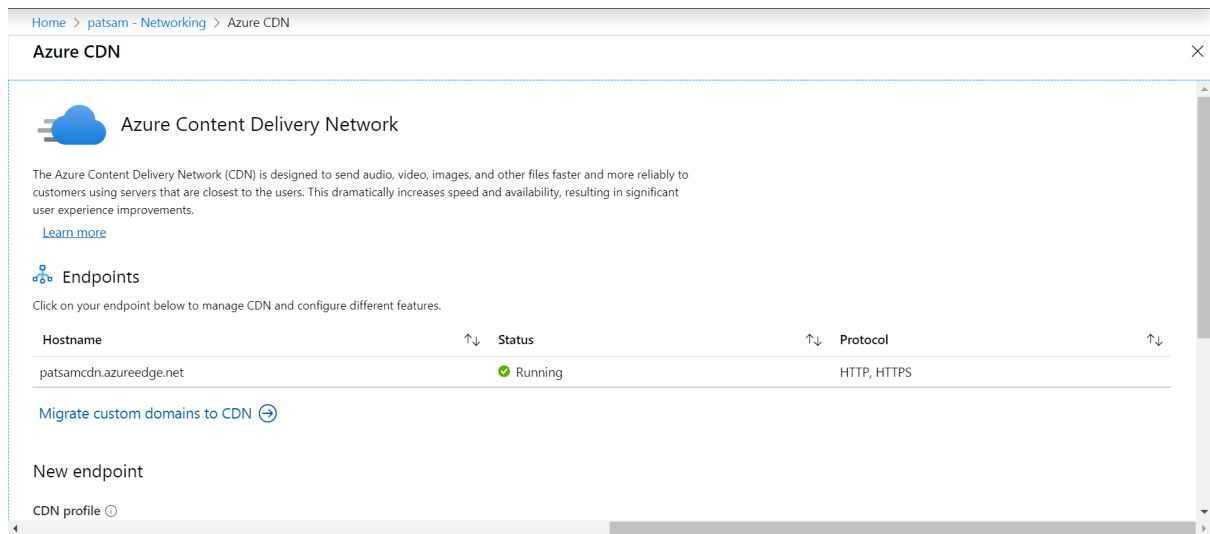
✓

.azureedge.net

Origin hostname ⓘ

[Create](#)

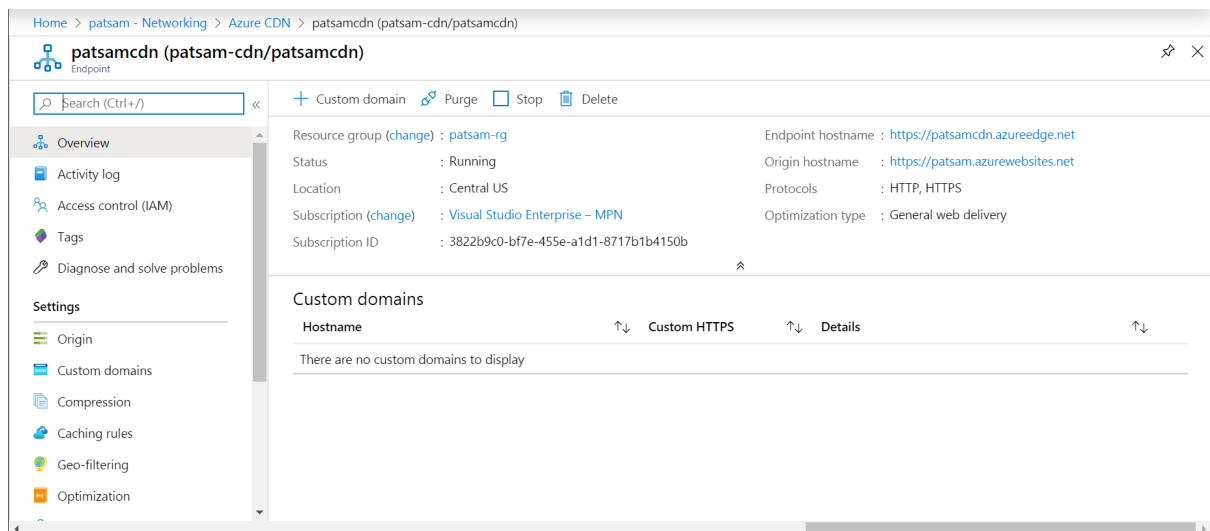
Once finish creating the CDN it should show the newly created CDN. Click on it.



The screenshot shows the Azure portal interface for the 'patsam - Networking' resource group. The 'Azure CDN' section is active, displaying the 'Azure Content Delivery Network' logo and a brief description. Below this, the 'Endpoints' section shows a table with one endpoint: 'patsamcdn.azureedge.net', which is 'Running' and supports 'HTTP, HTTPS' protocols. A link to 'Migrate custom domains to CDN' is also visible.

Hostname	Status	Protocol
patsamcdn.azureedge.net	Running	HTTP, HTTPS

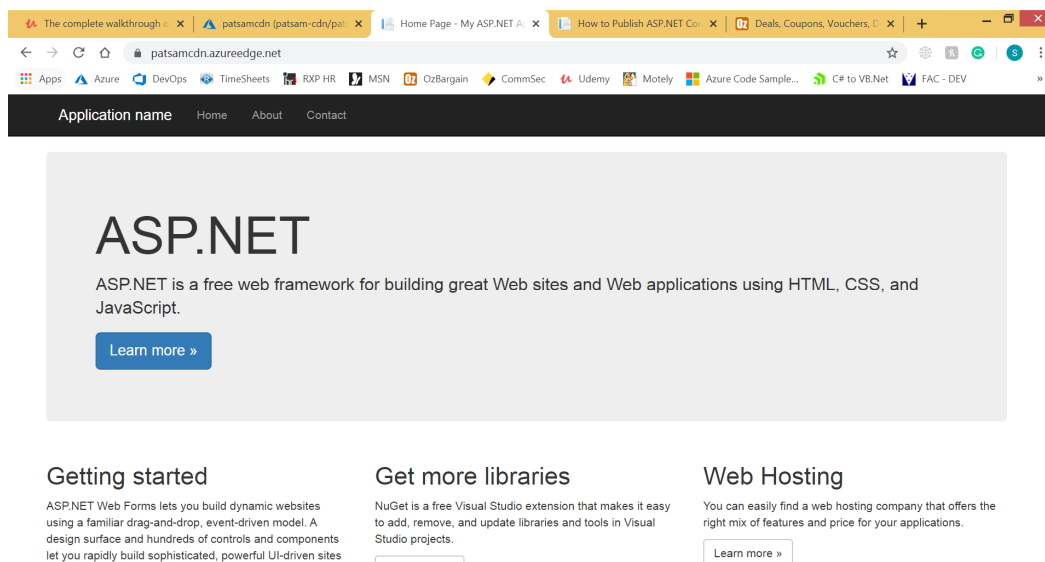
We can see the CDN details.



The screenshot shows the 'patsamcdn (patsam-cdn/patsamcdn)' endpoint details page. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Origin, Custom domains, Compression, Caching rules, Geo-filtering, and Optimization. The main content area displays the endpoint's configuration, including its resource group, status, location, subscription, and endpoint hostname. Below this, the 'Custom domains' section is empty, indicating no custom domains are currently configured.

Resource group (change)	Status	Location	Subscription (change)	Subscription ID	Endpoint hostname	Origin hostname	Protocols	Optimization type
patsam-rq	Running	Central US	Visual Studio Enterprise – MPN	3822b9c0-bf7e-455e-a1d1-8717b1b4150b	https://patsamcdn.azureedge.net	https://patsam.azurewebsites.net	HTTP, HTTPS	General web delivery

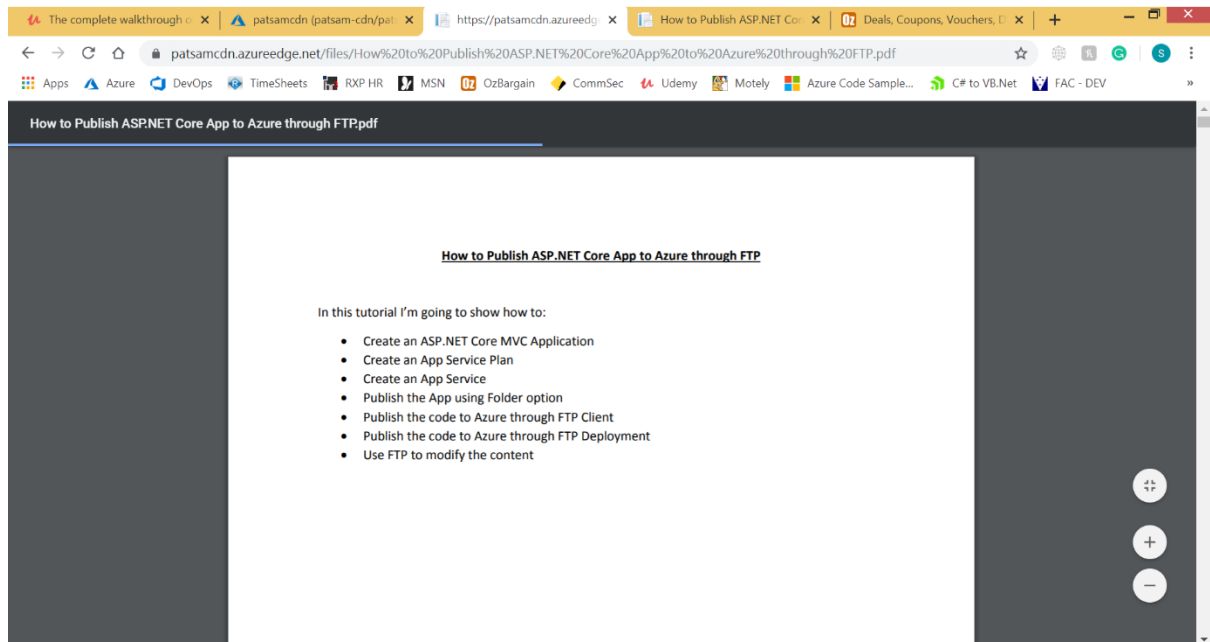
- <https://patsamcdn.azureedge.net/>



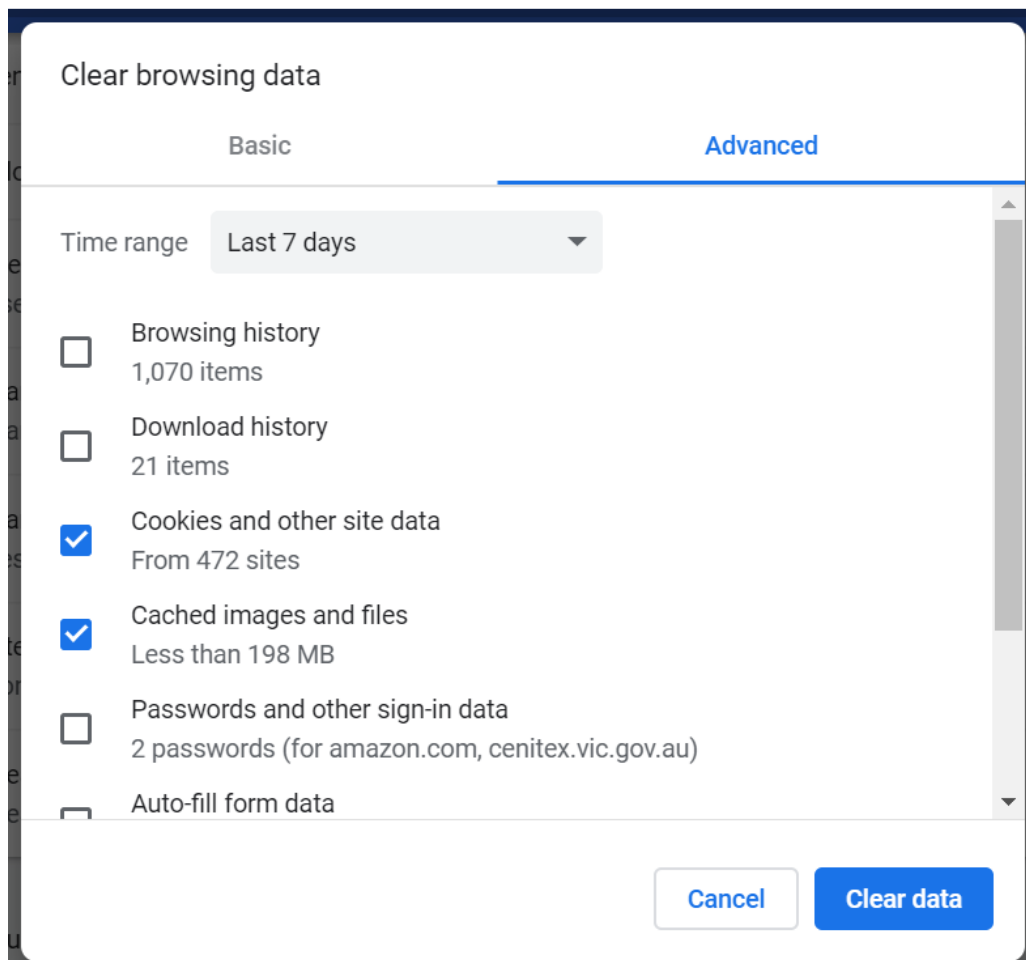
The screenshot shows the ASP.NET website, which is a free web framework for building great Web sites and Web applications using HTML, CSS, and JavaScript. The page features a navigation bar with links to Home, About, and Contact. The main content area includes a large heading 'ASP.NET' and a 'Learn more »' button. Below this, there are three sections: 'Getting started', 'Get more libraries', and 'Web Hosting', each with a brief description and a 'Learn more »' button.

Browse the file.

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

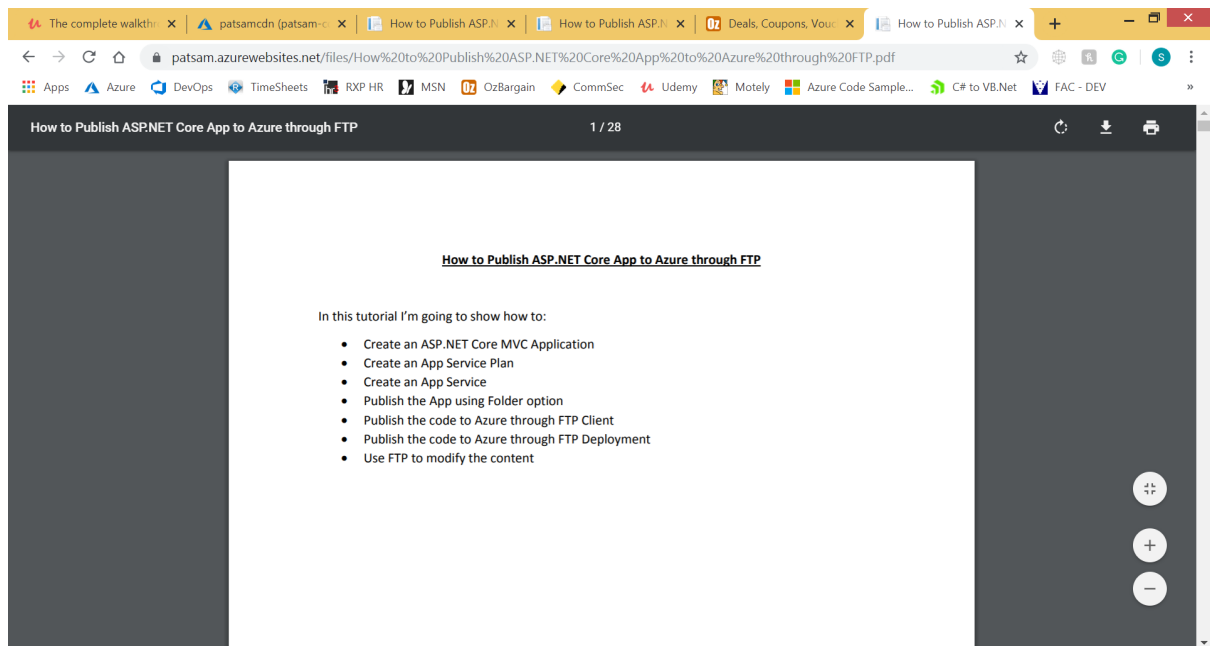


Next clear your browser history and cache.



Try browsing the URL again.

- <https://patsam.azurewebsites.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.