MONASH University

FIT5032 - Internet Applications Development

Week 11A - Quick Deployment Guide (Azure)

Last updated: 29th July 2018
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Introduction

There is no need to complete this tutorial. It functions as a supplementary material to showcase how to use quickly deploy via Azure App Service with database connectivity.

Keep in the mind, the different environments, thus when it is deployed and live, the database connectivity would be different in normal scenarios. Thus, you will need to create your own database connection. **This tutorial will use your application from Week7B.**

Objectives

Estimated Time To Complete ~ 1 hour (Depending on various factors)

Upon the completion of this tutorial, you will gain a basic understanding of

- A simple deployment process with Azure
- Configure MS SQL in your application.

DoubtFire Submission

- **None**

Upon completion of this tutorial, you would have a deployed and functioning website. Keep in mind that deployment is normally considered to be a tedious process, thus deployment chains are often built.

Step 1

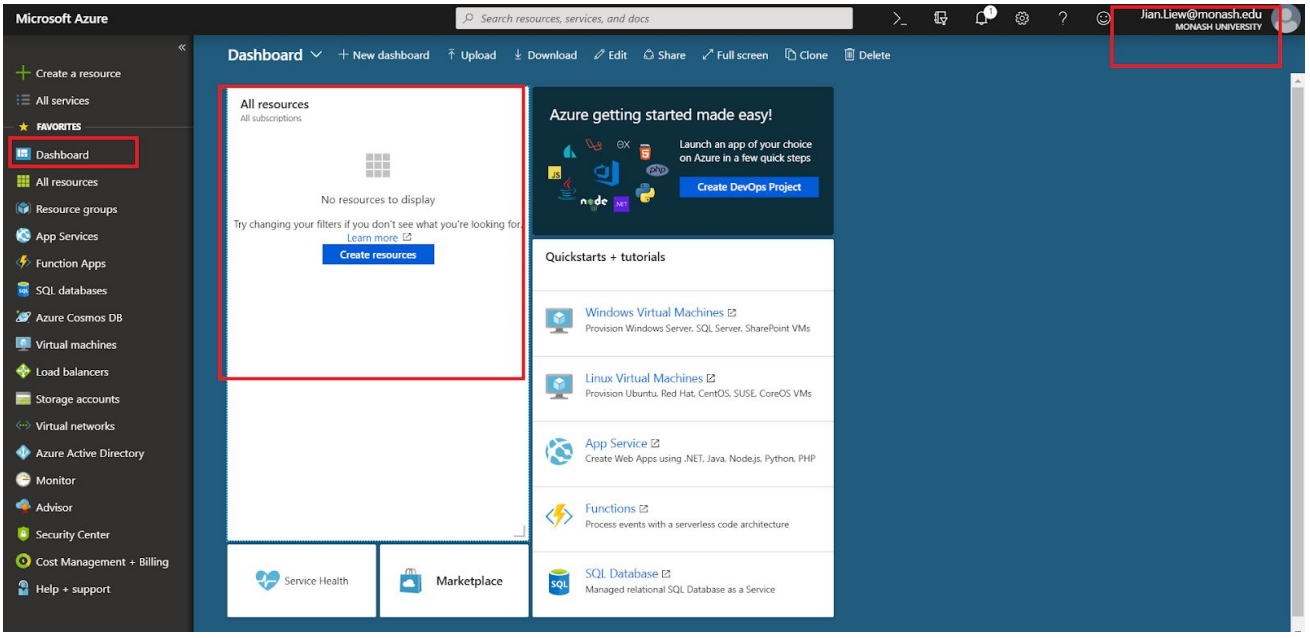
First you would need to obtain an Azure student account.

https://azure.microsoft.com/en-au/free/students/

Please keep in mind that the creation of this account might take a while.

Rushing your tutor will NOT speed up this process. This process might take from minutes to days. If you are not able to see your Azure dashboard, you will need to be patient and wait for it. Emailing or rushing the Teaching Team will not speed up this process too. Remember that this is a 3rd party service. (Sometimes, you can try using inCognito mode or private browsing to see if you can login to your Dashboard)

Once you have completed that, your Dashboard can be seen.

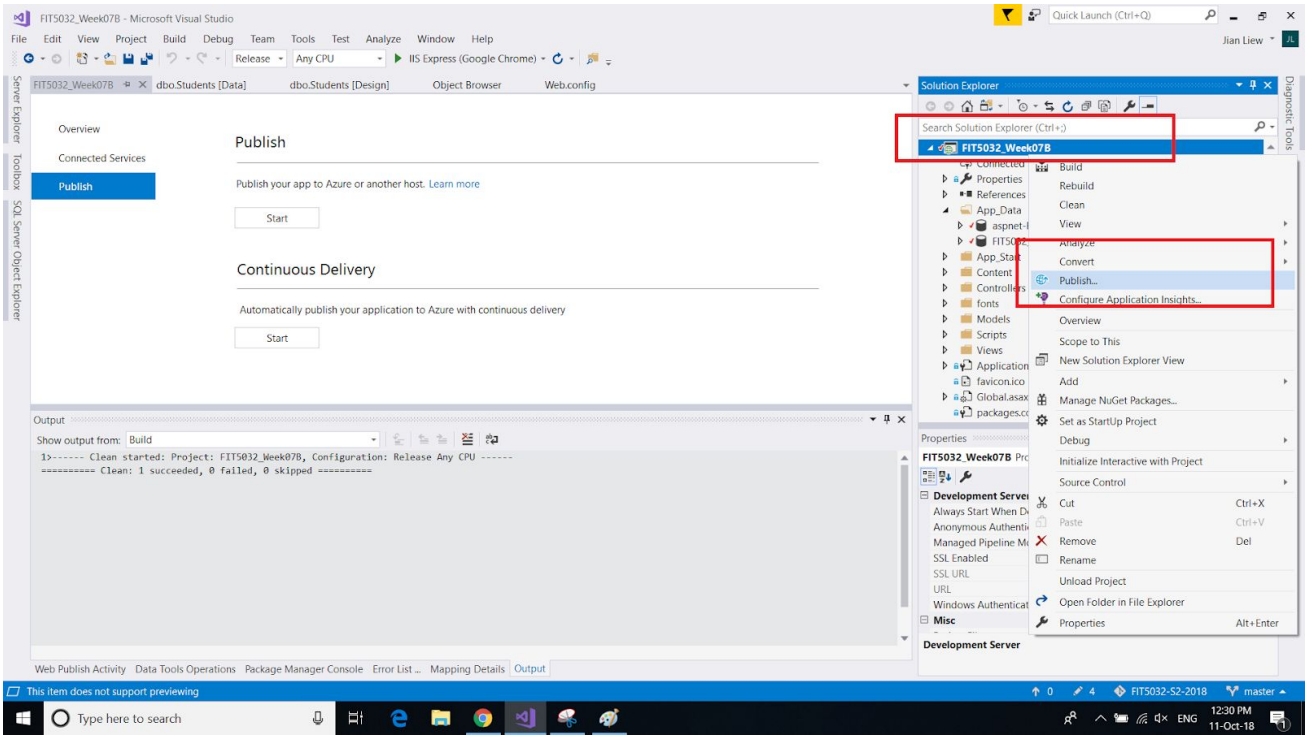


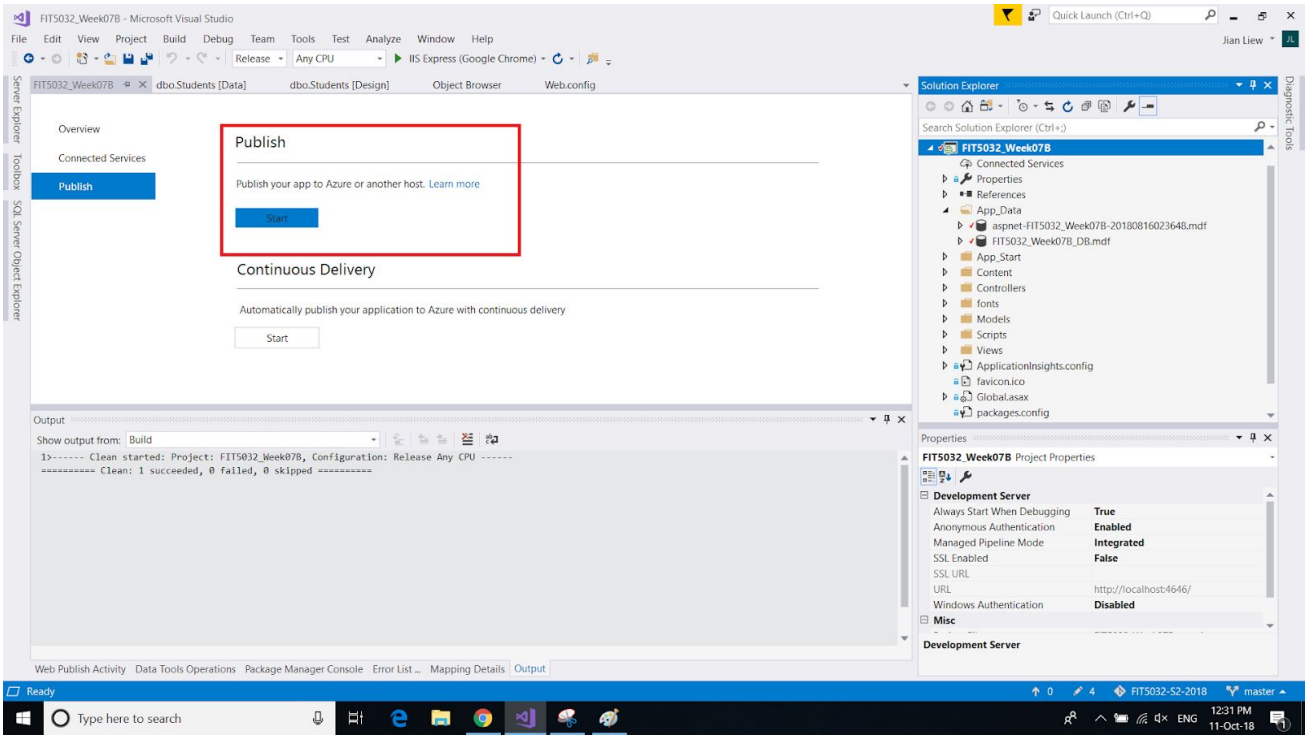
If you have pre-existing resources, please keep in mind and differentiate the ones which you are using for this specific lab task.

You can also proceed to delete resources, which you are no longer using.

Step 2

Here I will use "One Click Deployment" to achieve a simple deployment. This can be done from your IDE. **If you have a pre-existing Publish profile, please delete it.**





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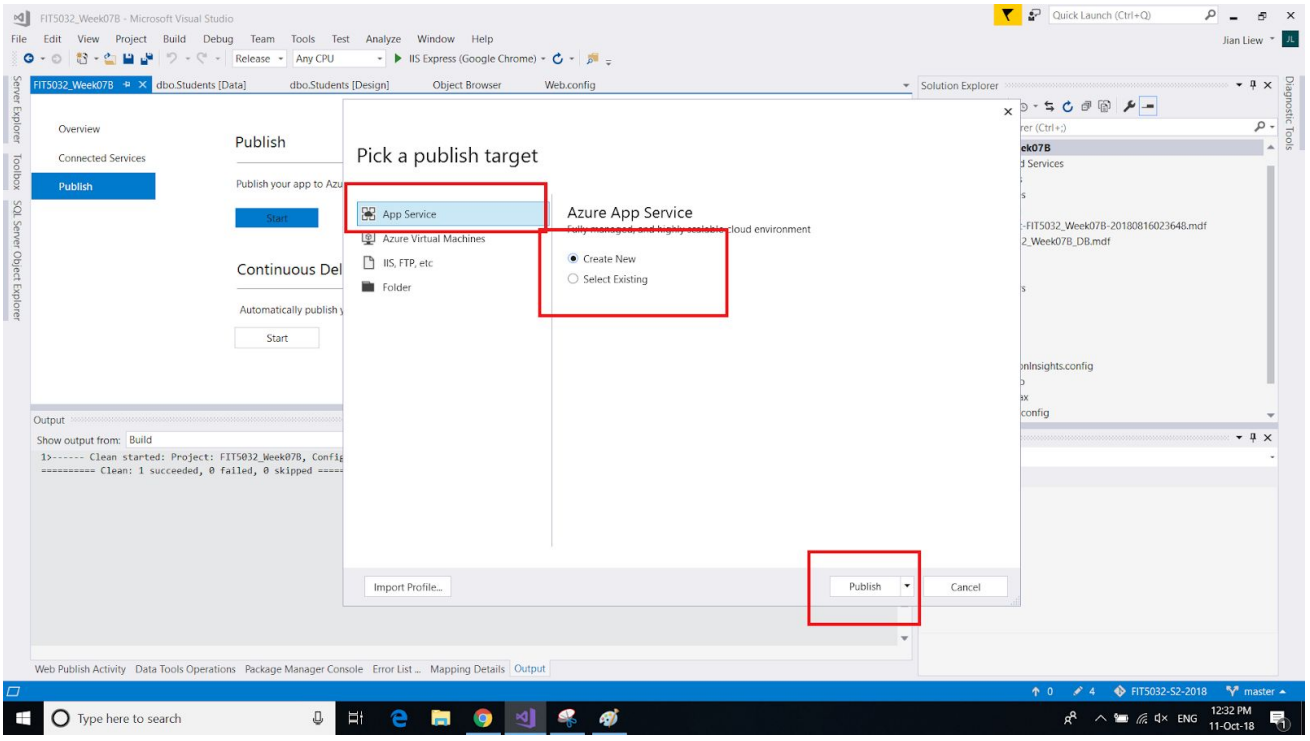
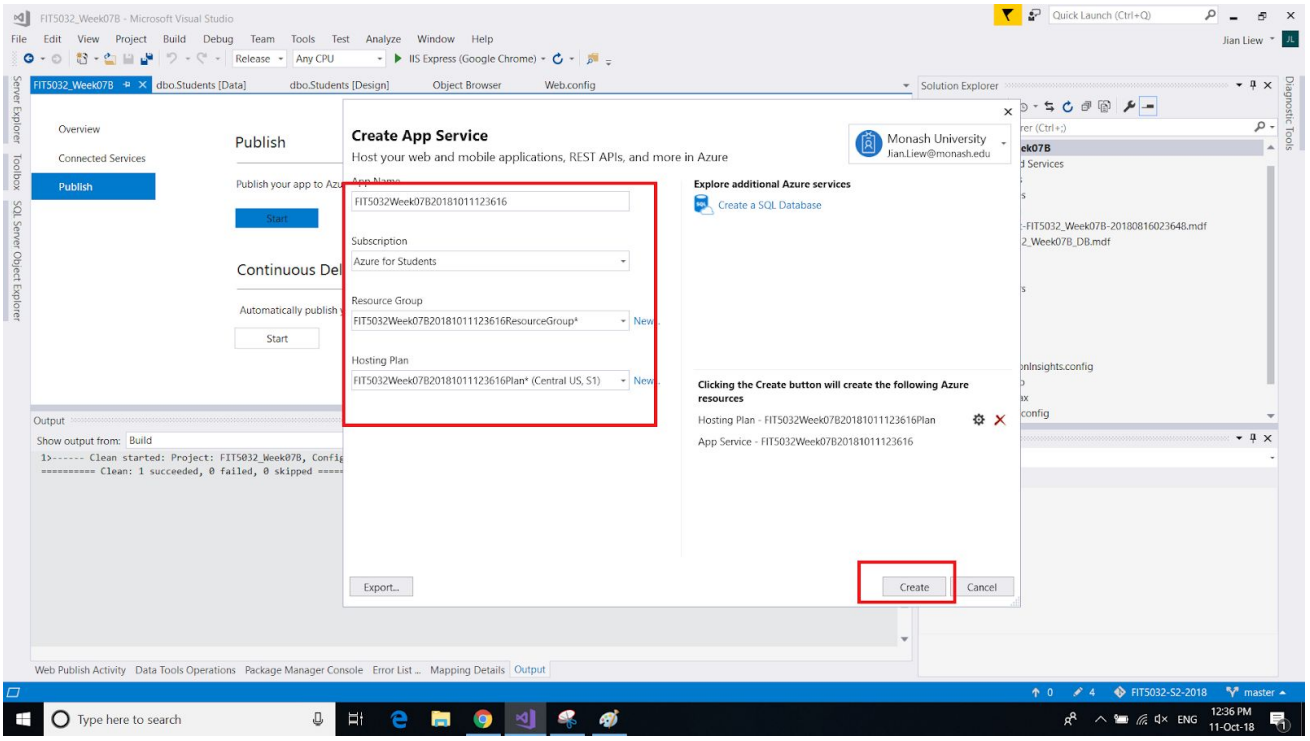
Step 3

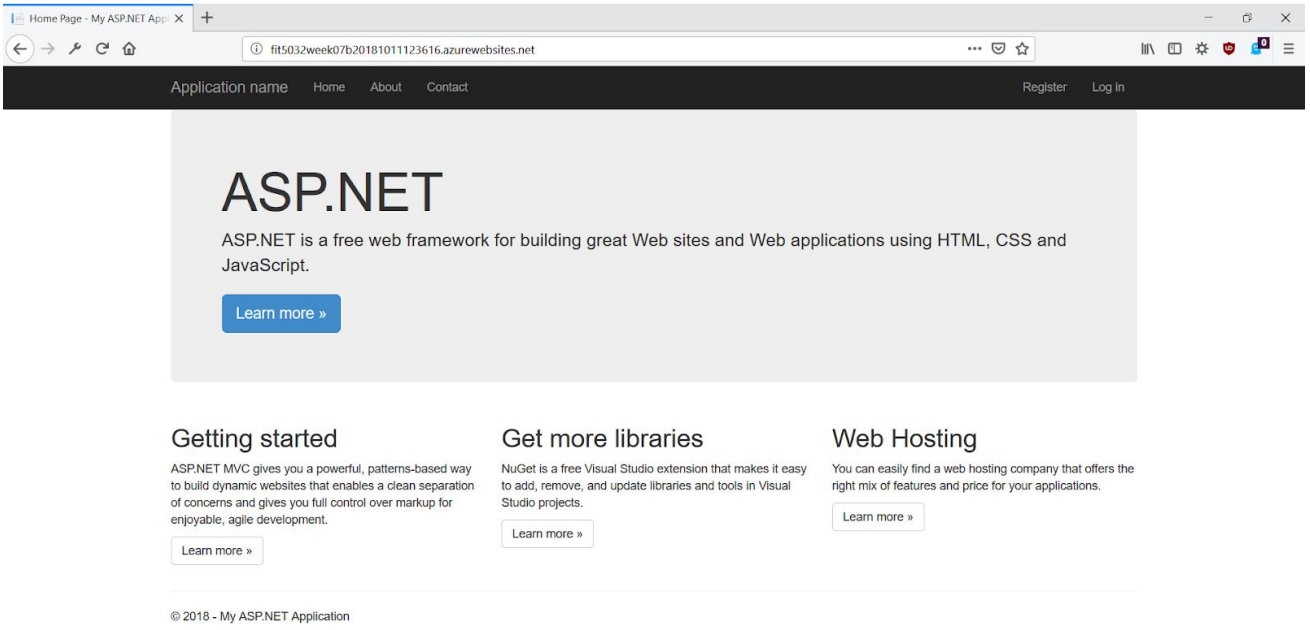


Step 4



This process will take while.

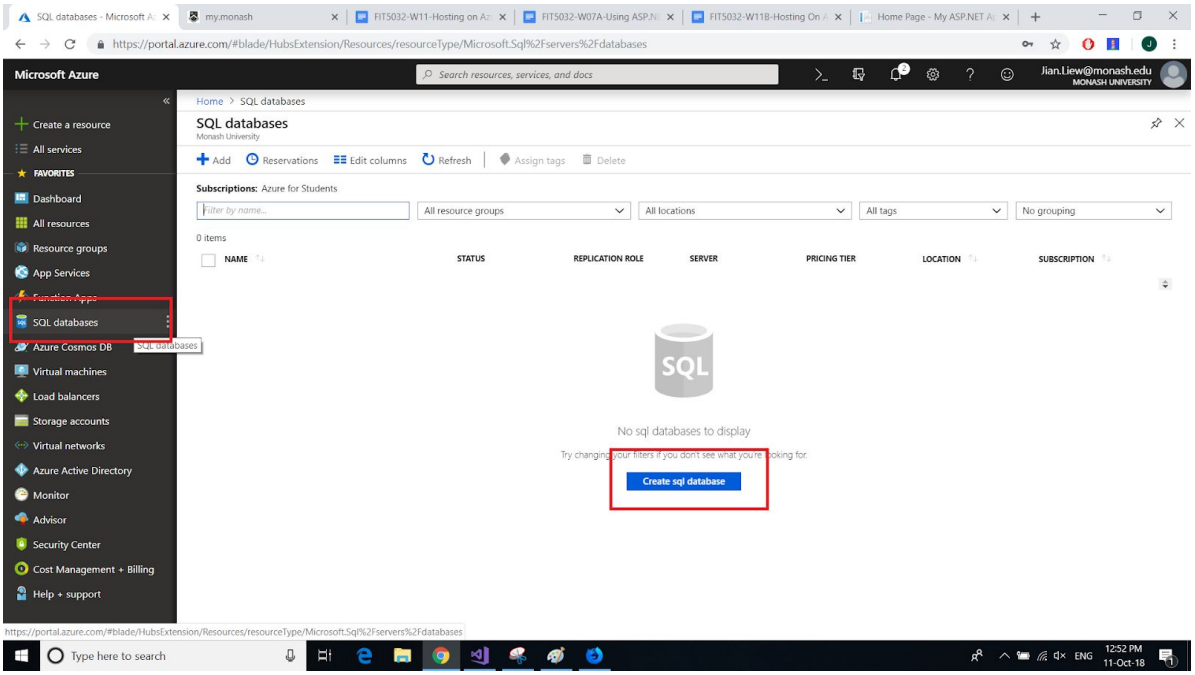
Step 5



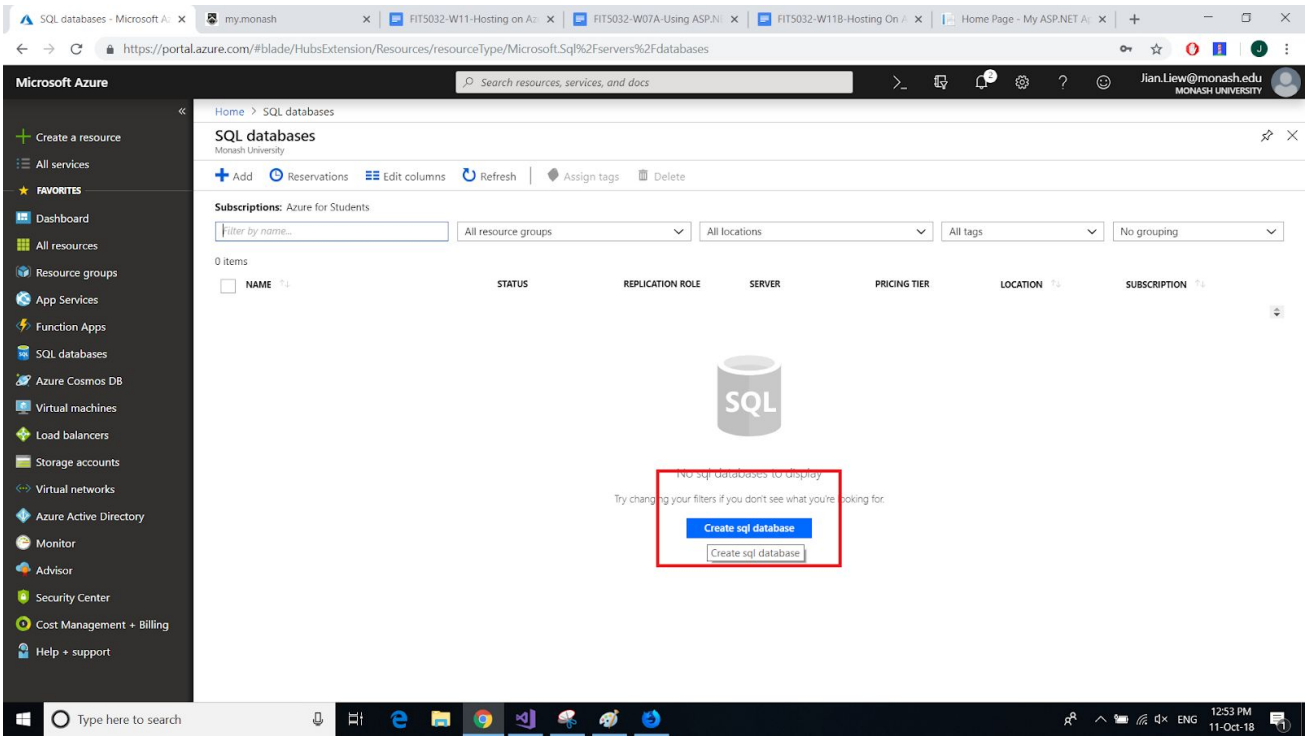
The website should be deployed, however, there **might** be issues with the database connectivity depending on how you approached it.

Now, the SQL databases needs to be configured.

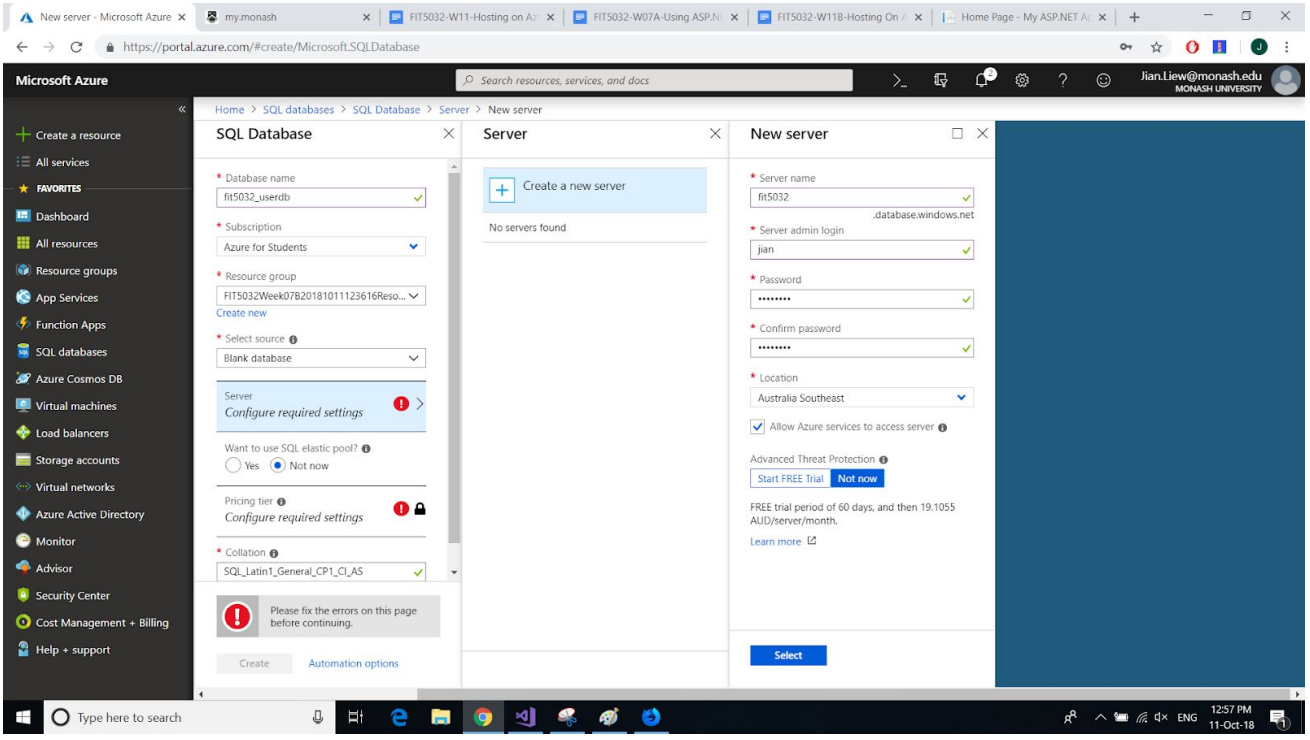
Since I am using two databases, one for the users and another for the business rules itself, I would need to set up 2 database and set up my application to use them. ***You can also use the IDE to do it.**



Step 6

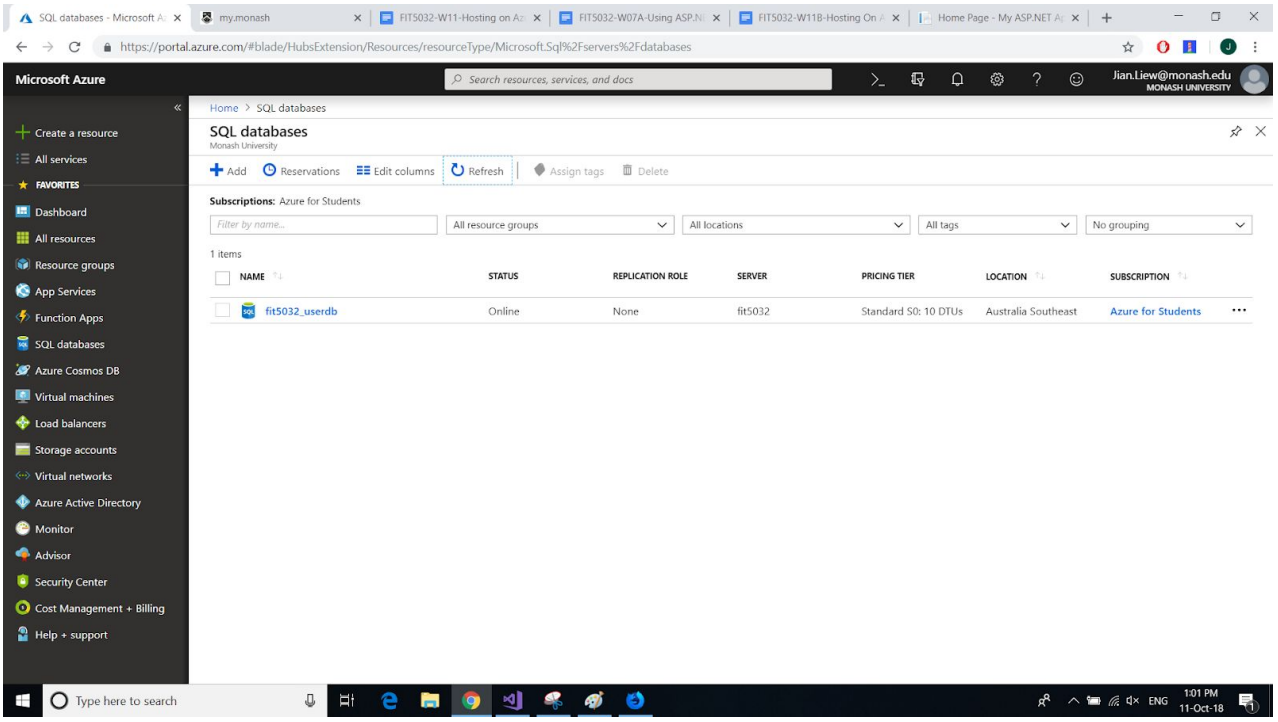


Since I have approached it by using two databases, I will create two SQL database. Calling the first one fit5032_userdb and the second one fit5032_business. Remember that a database is inside of a server, so you will need to create one as well. (Screenshot below)

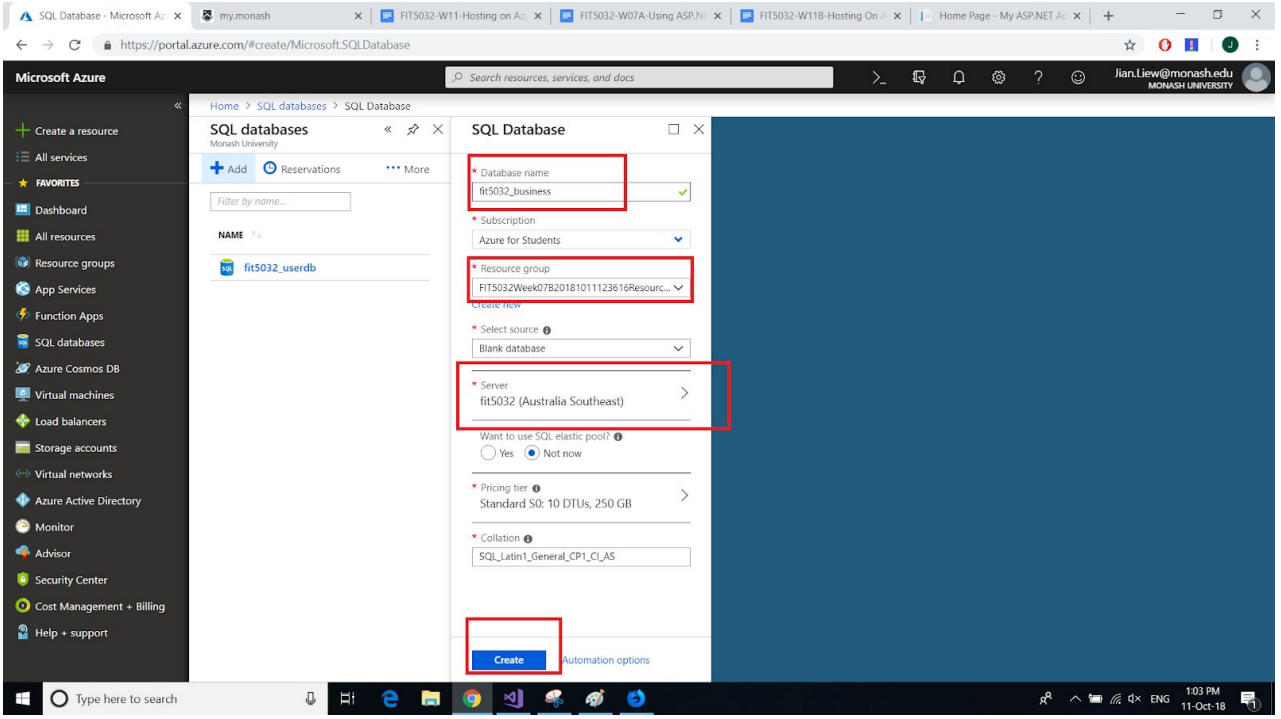


Step 7

If you do not see it after it has been deployed, please refresh it.

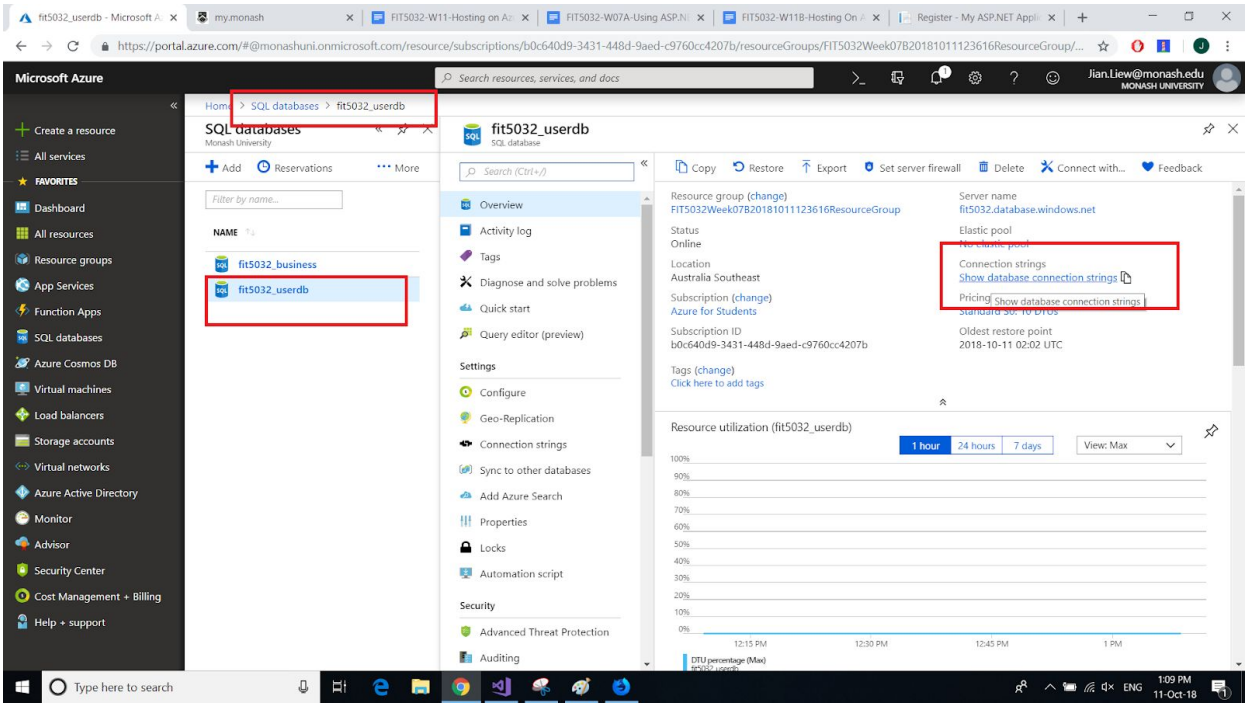


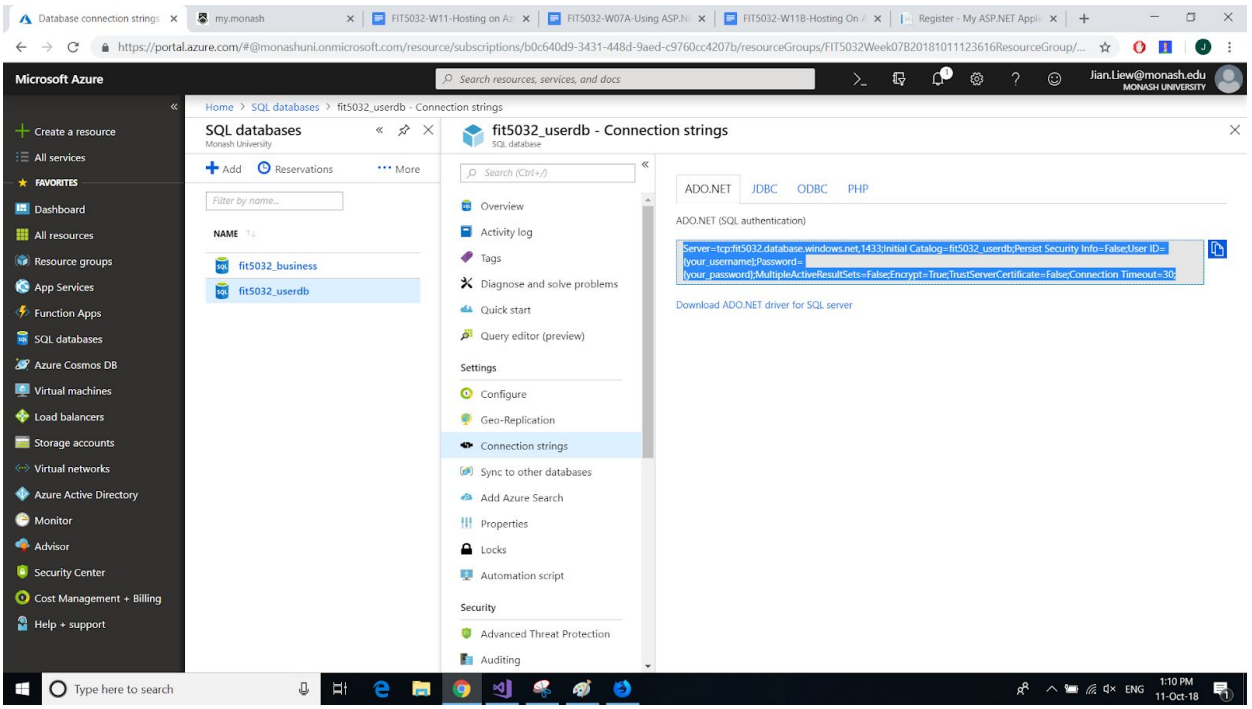
Please remember to proceed to create another database for the business information (fit5032_business)



Step 8

You will now need to copy and paste the connection Strings to your web.config. **It is good idea to keep your original configuration. Please do so.**

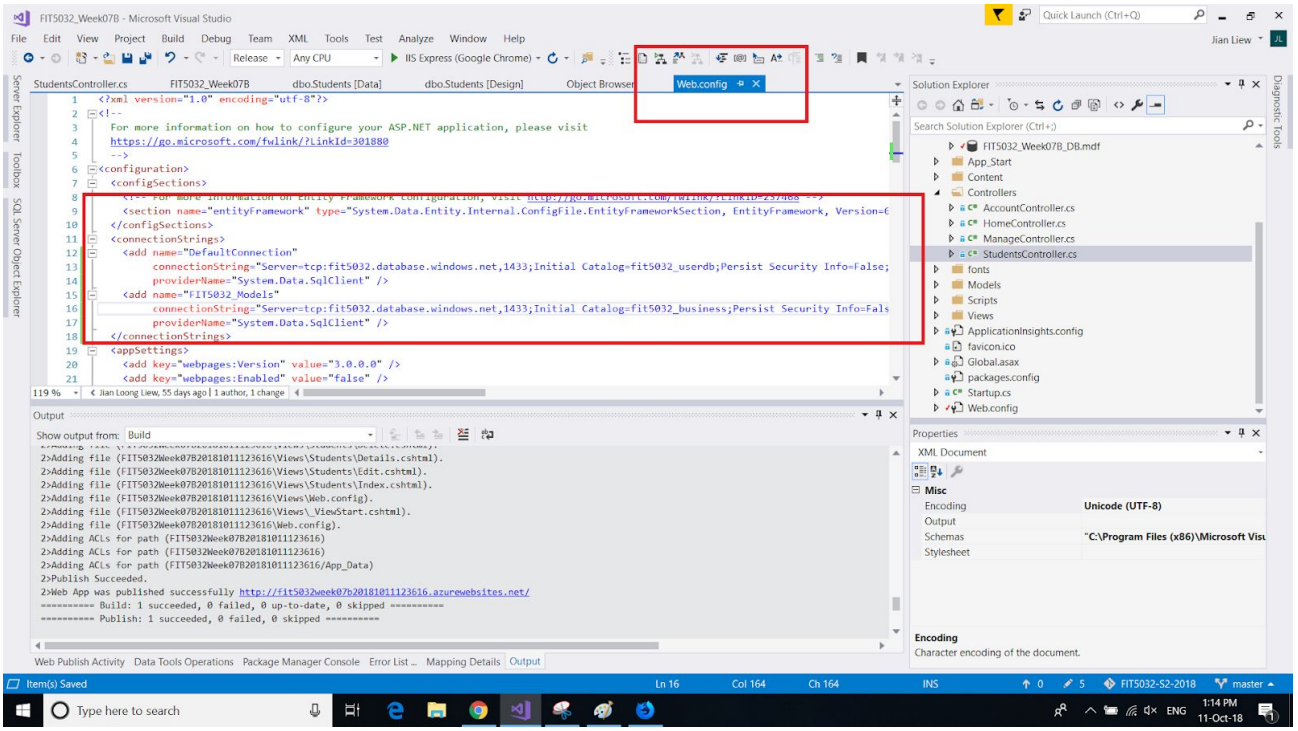




The connection string will then be placed in your web.config file of your application. (In the Visual Studio IDE). **Please remember to use your username and password which you set in the connection String.**

Step 9

Repeat this process for the other connection string. You will only need to include the connections you are using.

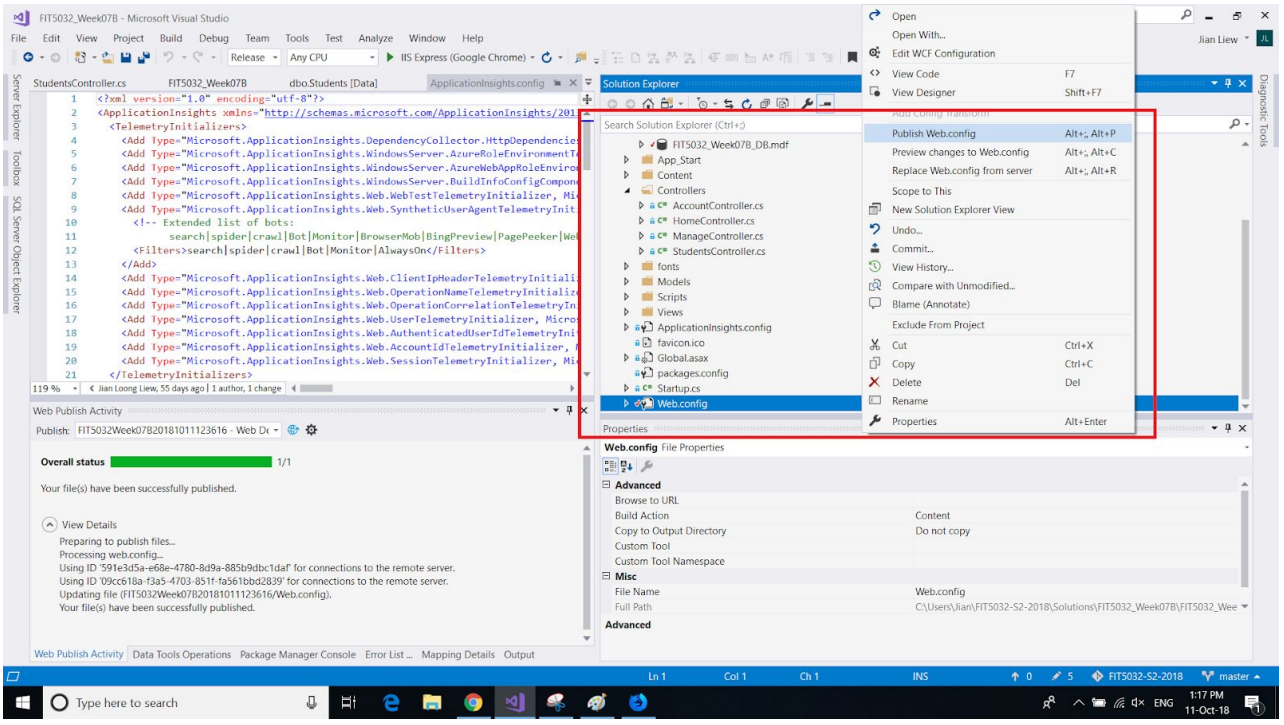


If you have approached this using a Model First approach, where you have generated the .edmx files, the connection string would be slightly different where you will need to change it between the "quot" instead.

If you have approach this using a CodeFirst approach, you will need to Enable Migrations to allow it to be working as intended.

Step 10

After that you can just Publish, the web.config file itself.

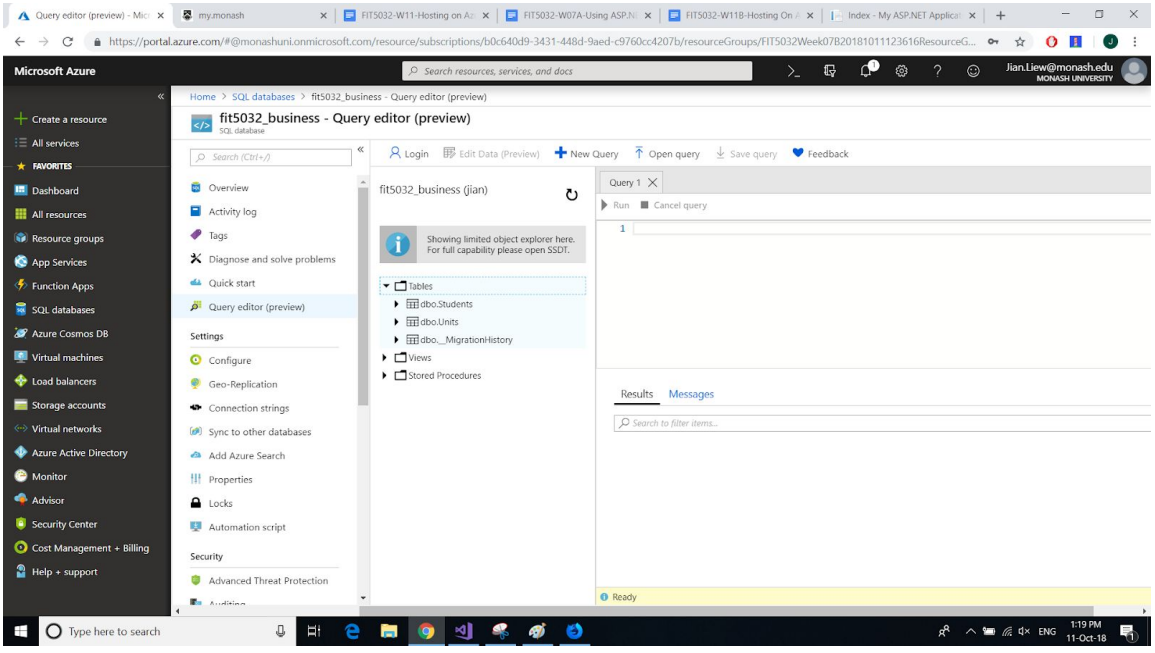


Step 11

After that, your web application should now be working as intended.

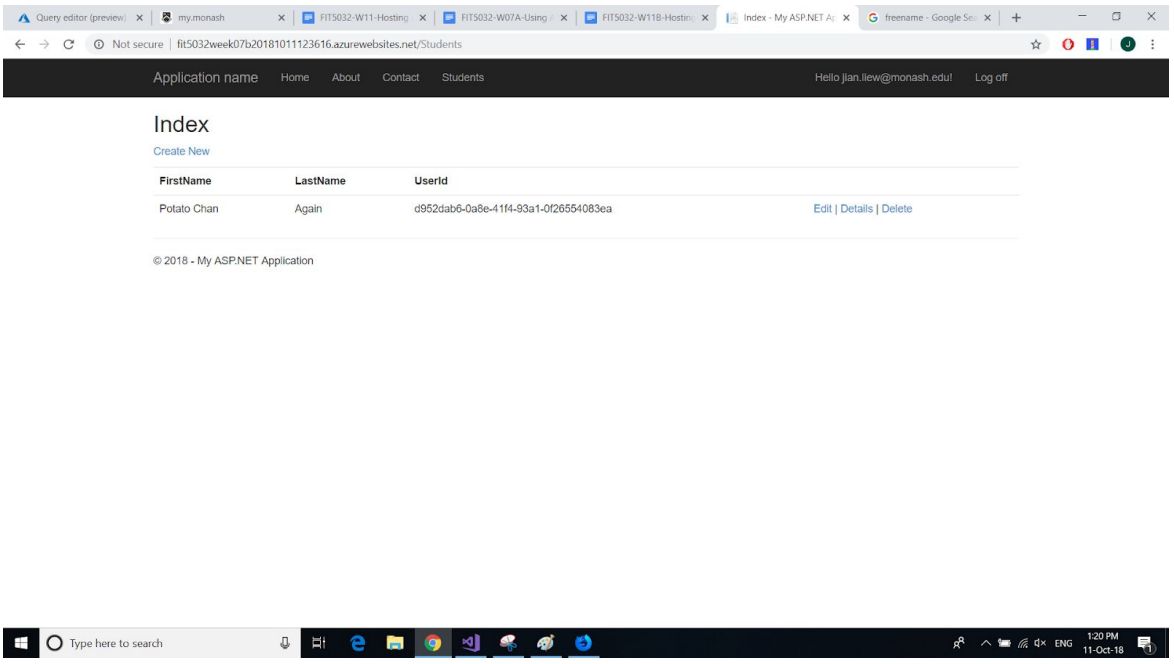
Step 12

You can also run queries on the Azure dashboard.



Step 13

Everything should be working as intended, if done correctly.



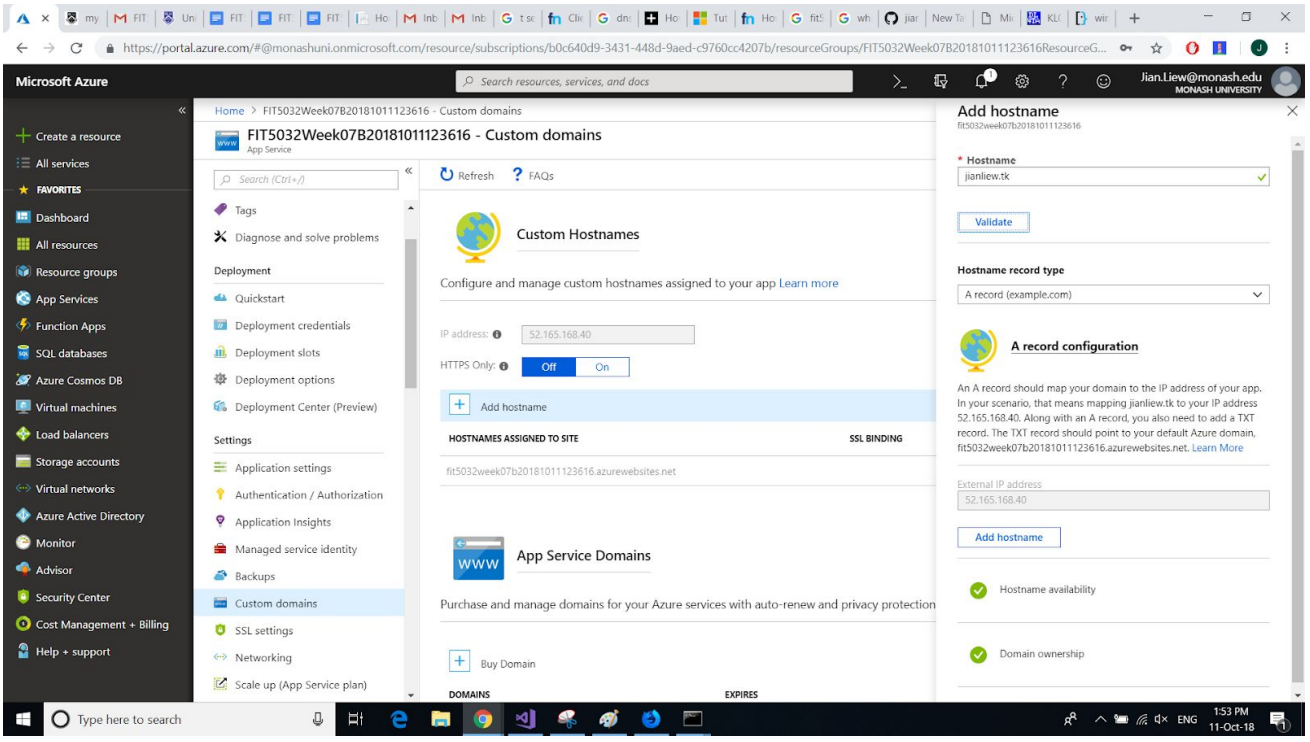
Step 14

What you can do now, is to use DNS forwarding to forward your domain to azuresites.(If you have one). You can obtain a free .tk domain from freenom.com

Please remember due to how DNS propagation works, this might take some time. Rushing the teaching team or your tutor WILL not improve the speed of it working.

This can be done by adding a host name into the Azure dashboard with Custom domains. (You can also forward it from your other domain if you want).

So, the domain you bought needs to have a CNAME field which has the target of your azure site url.



Please remember to click Add hostname there. (Please remember due to how DNS works, rushing this process will not make it go faster). The teaching team or your tutor will not be able to make it go faster.

Conclusion

Upon the completion of this tutorial, you would now know how to deploy a simple web application to Azure at a basic level.