

Azure Breakout 3.0

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Description

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☒ Setup - Prepping Visual Studio and Making an Azure Account

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- ☐ 0) This Card assumes your project is connected to a database. If you need to do so, refer to the instruction for either Db First or Code First
- ☐ 1) Make an Azure Account here (Holy cow really?): https://login.microsoftonline.com/common/oauth2/authorize?resource=https%3a%2f%2fmanagement.core.windows.net%2f&response_mode=form_post&response_type=code+id_token&scope=user_impersonation+openid&state=OpenIdConnect.AuthenticationProperties%3db3A7WNucuJsN-1WNYO371GqOiSo56zI0HQbfPGhfPDxZC6cRvyf17J07UB9496YFjjXA2urjSyhqgq3_GoaxBn2hNiK6uUiKK7_5YpFNWLeZY5DQIhecx6QdUP4jbWCzWM52DkvFiAwkAq-USkA0IBuCXATOYpWWXqet21kKLVXaOL&nonce=636377171951492069.MDcxMmZkZTAzMjJkNC00YjU2LWExOGMtNDVhZWExYjAxYTl4OTIINGIzODgtY2I3OS00NjRjLTljMTgtYzNkZDJmZWU1YjUx&client_id=c44b4083-3bb0-49c1-b47d-974e53cbdf3c&redirect_uri=https%3a%2f%2fportal.azure.com%2fsignin%2findex%2f%3fsignin%3d1&site_id=501430
- ☐ 2) Make sure your Azure Packages are up to date in Visual Studio, go to Tools --> Extensions and updates and check under updates, if nothing Azure related shows up you should be golden
- ☐ 3) NB: When making pieces of Azure, ALWAYS MAKE SURE YOU PICK THE CHEAP OR FREE OPTION.
- ☐ 4) Make sure in Visual Studio you're signed into your microsoft account. You can check it by looking at the top right corner. It will say what email you're logged into. If you need to change it simply click on the email, and go to account settings and log into the desired account.

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☒ In Azure Portal - Make a SQL Server

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- ☐ 0) So we're going to create a SQL server to host our database, after these steps we will upload our database to Azure
- ☐ 1) Go to your Azure portal Dashboard. When you create anything it will show up under resources.

Note that Azure changes frequently and regularly so these instruction may become outdated at any time.

- ☐ 2) Whenever, you want to create a new resource click the green plus sign towards the top left of the page. To find what you need you have two options, you can search what you need or you can click through the categories.
- ☐ 3) Go and create an SQL logical server.
- ☐ 4) Fill in the form REMEMBER WHAT YOU PUT UNDER SERVER ADMIN LOGIN AND PASSWORD. They will be very important, they will be how you log into your server later. Resetting passwords gets messy fast with Azure. You will not be able to progress without them. Make sure you pick something you're okay with sharing --Others might have to use your account to help debug it.
- ☐ 5) For ease of access make sure you have pin to dashboard clicked. Hit that create button and let it build out. (This can take a minute or two, be cool)

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☒ Visual Studio Magic

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- ☐ 0) Again I'm assuming you've already connected to a DB and got VS up to date, if no refer to the first check list.
- ☐ 1) Open up the project you wish to upload in Visual Studio
- ☐ 2) Right click on the project's namespace and select Publish...
- ☐ 3) A pop up should appear, under publish target select Microsoft Azure Web App Service.
- ☐ 4) Fill in the form, anything you don't have select new... and VS will lead you through building it. Don't hit create just yet, there's one more step.
- ☐ 5) Select the services tab. In the top box, if you have a database, a DB resource should show up. Click the plus sign and it should show up in the bottom box.
- ☐ 6) Moment of truth! Hit the create button. If done successfully your web APP should show up in your browser. Note that URL, that will be where your Web APP lives on world wide web.
- ☐ 7) If everything has been done correctly, your project should be up and running on the clooooooud. Use server explorer to check where .Net sees your DB and poke around on the aforementioned URL to make sure your site is up and running. Most importantly, go and check your database pointing views and try to create a new row just to be sure all the parts are clicking properly.

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☒ In Azure Portal

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- ☐ 0) Make sure your server was successfully uploaded, check under resources list.
- ☐ 1) Note your server name/url (should be something like myserver.windows.database.net).
- ☐ 2) Remember how I yelled at you to write down and remember your server credentials, they'll be critical in a number of places. If not you can reset the password, but to save time and grief, please write it down
- ☐ 3) Go to your SQL Server and set a firewall rule for your server ---this will allow you develop using your computer, and needs to be done with each computer you wish develop on.
<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-firewall-configure>

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- ☐ 0) Connect to your SQL Server and find the Database you want to upload
- ☐ 1) Right click on your DB and go to Tasks-->Deploy Database to Microsoft Azure SQL Database
- ☐ 2) Hit next and in the new panel, hit Connect..., this should a familiar dialogue box.
- ☐ 3) Paste in the name of the Azure SQL Server you created, next under the Authentication Drop down switch to SQL Server Authentication. Enter your server admin login and password. Hit Connect and see if it works.
- ☐ 4) Click through the rest of the wizard settings and see if it works!

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In Visual Studio - Uploading a Database

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- ☐ 1) Right click on your solution and hit publish in your solution explorer
- ☐ 2) Remember The Database Labs? We'll be following many of the same steps, go to your models folder in the solution explorer, right click on it, go to add --> new item
- ☐ 3) Under the new item pop up go to data, and under that tab,select ado.net entity model, hit add
- ☐ 4) Select EF Designer from database
- ☐ 5) Under the next pop up, hit the new connection button (be cool it's slow, might take a minute to pop up the new connection dialogue)
- ☐ 6) Under server name, paste in the name of your SQL Server on Azure
- ☐ 7) Under Authentication, switch to SQL server Authentication

- ☐ 8) Underneath there, write in the user name and password for your SQL server, the one I yelled at you to write down
- ☐ 9) Now give .Net a second to think... Select the Database drop down and see if any of your DBs show up, if no you're totally okay, just go and grab their names from azure (should be what shows up in the top right when select the DB on Azure).
- ☐ 10) Hit Test connection... if success, great! Else if failure, hop on azure and set your firewall settings using the instructions here: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-firewall-configure>
- ☐ Note: Each person who will be developing the project needs to get a fire rule set for their IP, this must all be done on the same account.

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☒ In your Controllers

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- ☐ 1) Any spot you want to use the data up on the remote, simply switch you DB entity object to new entity you have created. Provided the models are the same between local and remote, they should be interchangeable

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