Microsft Azure Set up & GitHub Basics

Lab 1 Slides

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Resources to help in this class
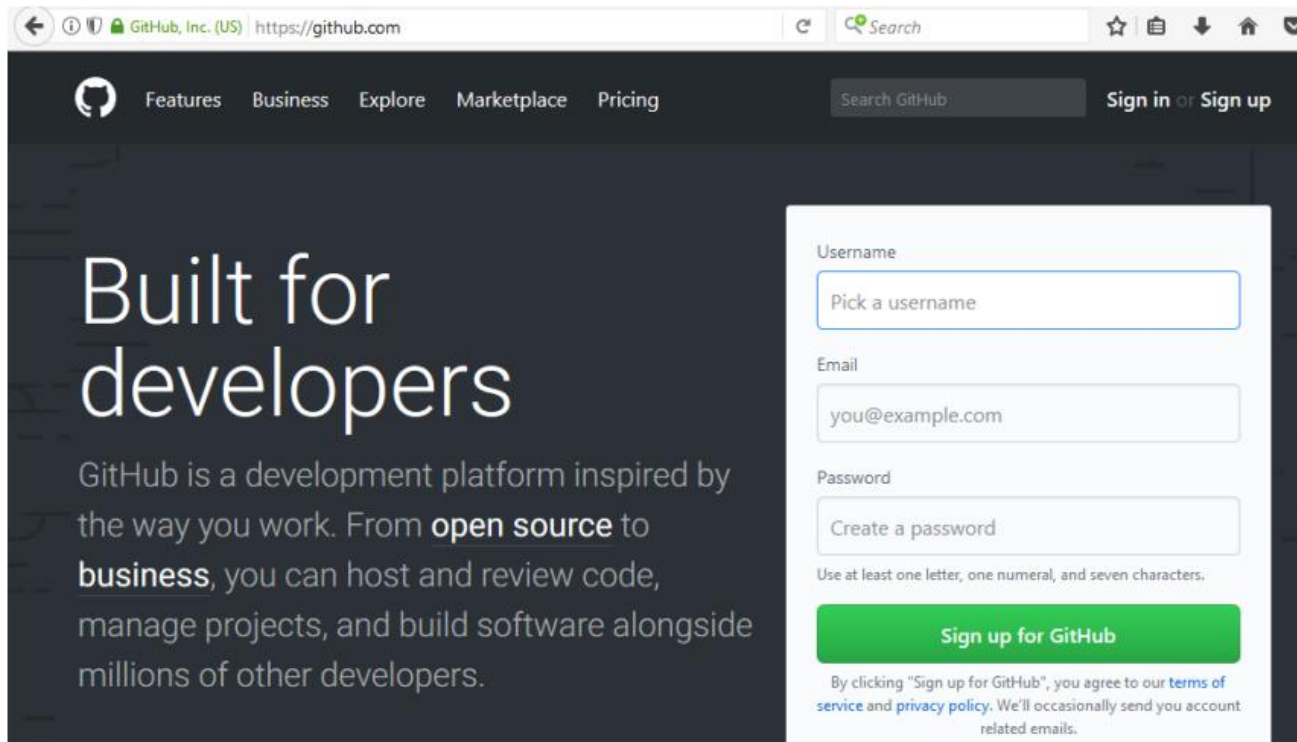
1. Microsoft Azure: https://azure.microsoft.com/en-us/

2. GitHub: https://github.com/

- Both websites are free resources that you can use
- You can also pay for options within these resources but for now the free resources will do

GitHub Account

- A GitHub account is recommended to help with your learning
- GitHub is a version control repository with many already built Azure repositories that you can use for your learning

GitHub Account set-up

- Website: https://github.com/

- Create a username, email and password and then select 'sign-up'

GitHub - Verify your account

- You will receive an email to verify your account
- Verifying your account is not necessary but will allow you to access ALL features of GitHub

GitHub <noreply@github.com>
to me ▾

Hi

Help us secure your GitHub account by verifying your email address features.   This lets you access all of GitHub's

Verify email address

GitHub set-up cont…

- Select 'unlimited public repositories for free' then Select Continue to move to Step 3

GitHub set-up cont…

Fill out the questionnaire or select skip this step at the bottom

Welcome to GitHub

You'll find endless opportunities to learn, code, and create.

✓ Completed	Step 2:	Step 3:
Set up a personal account	Choose your plan	Tailor your experience

How would you describe your level of programming experience?

○ Very experienced   ◉ Somewhat experienced   ○ Totally new to programming

What do you plan to use GitHub for? (check all that apply)

☐ Development   ☐ Project Management   ☑ Research

☐ Design   ☑ School projects   ☐ Other (please specify)

Which is closest to how you would describe yourself?

○ I'm a hobbyist   ○ I'm a professional   ◉ I'm a student

○ Other (please specify)

What are you interested in?

web-development ✕   tutorials ✕

e.g. tutorials, android, ruby, web-development, machine-learning, open-source

Submit   skip this step

GitHub set-up cont…

- You have now created an account and can start exploring!
- Select 'Read the guide' for useful information or start a project if you want to play around yourself

GitHub Repository

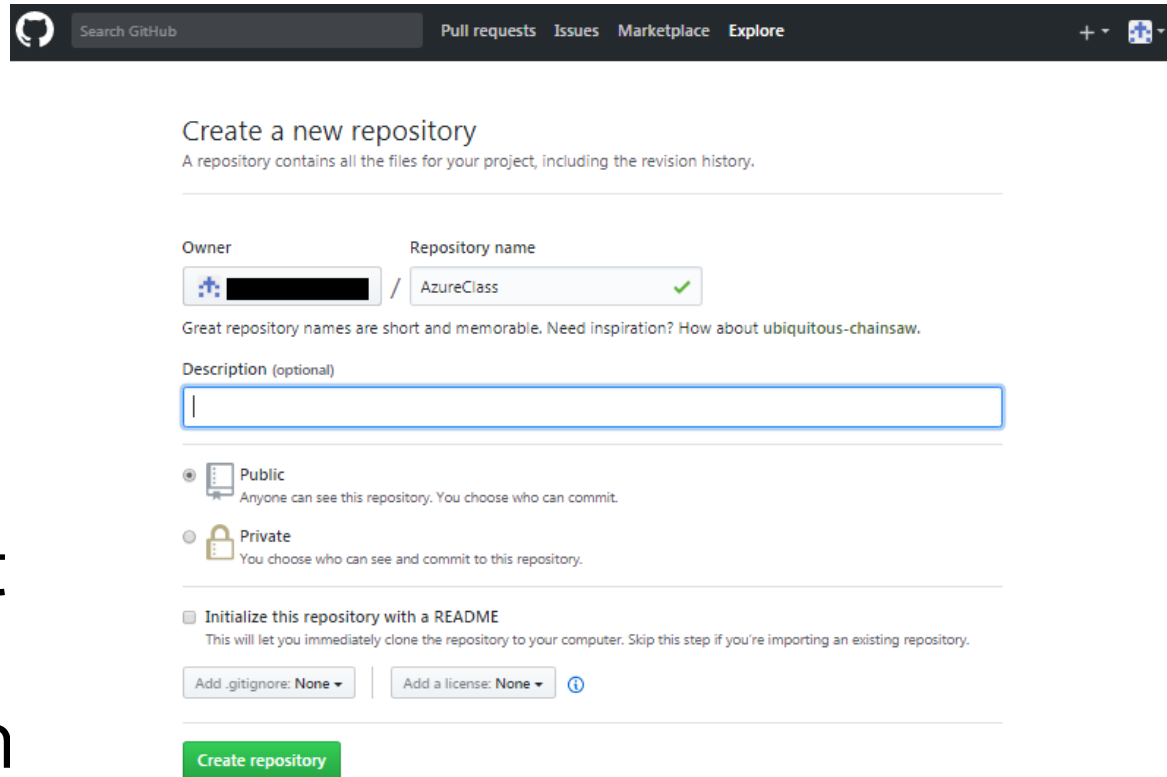- You can create your own repository by giving it a name and selecting if you would like it to be public or private and then selecting 'Create Repository'

GitHub Azure Repositories

You can also use some already built Azure repositories

- Azure Resource Manager templates:

https://github.com/Azure/azure-quickstarttemplates

- Azure CLI 2.0:

https://github.com/Azure/azure-cli

- Azure DevOps Utilities:

https://github.com/Azure/azuredevops-utils

Microsoft Azure set-up

- Set up a free account at this link: https://azure.microsoft.com/en-us/free/?v=17.39a
- Select the green 'Start free' button in the bottom left

Microsoft Azure cont…

- You must create a Microsoft account first before creating an Azure account
- If you already have a Microsoft account you will need to create a new one to gain the free access for Azure
- Select the 'Create a new Microsoft account' link at the bottom

We have a new sign-in experience!
Try it now

✕

Microsoft Azure Signup Portal

Work or school, or personal Microsoft account

Email or phone

Password

☐ Keep me signed in

Sign in   Back

Can't access your account?

Create a new Microsoft account

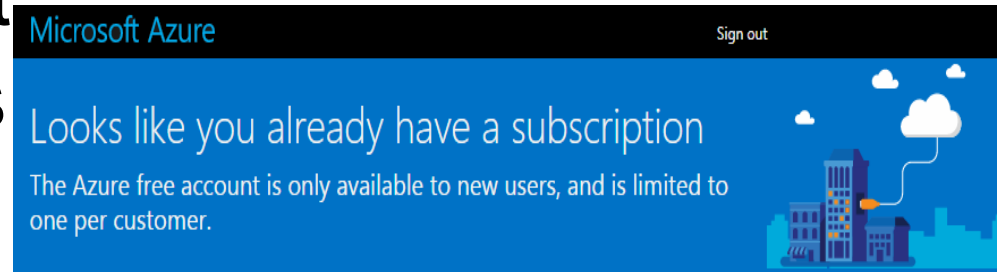© 2017 Microsoft   Microsoft

Terms of use   Privacy & cookies

Microsoft Azure cont..

- If you already have a Microsoft account you will receive this message if you try to use it and will need to pay.

Microsoft Azure cont…

- Information needed for your account:
  - You will need to provide a credit card number for your Azure account in case you would like to use any of the pay for options
  - You will need to provide a phone number to verify your account as well
    - Note: Microsoft may try to call you to solicit why you are interested in using their service

Creating a new account

- Provide your details in order to create a new account

- Microsoft will send you a code to your email or phone number provided that you will use to verify your account
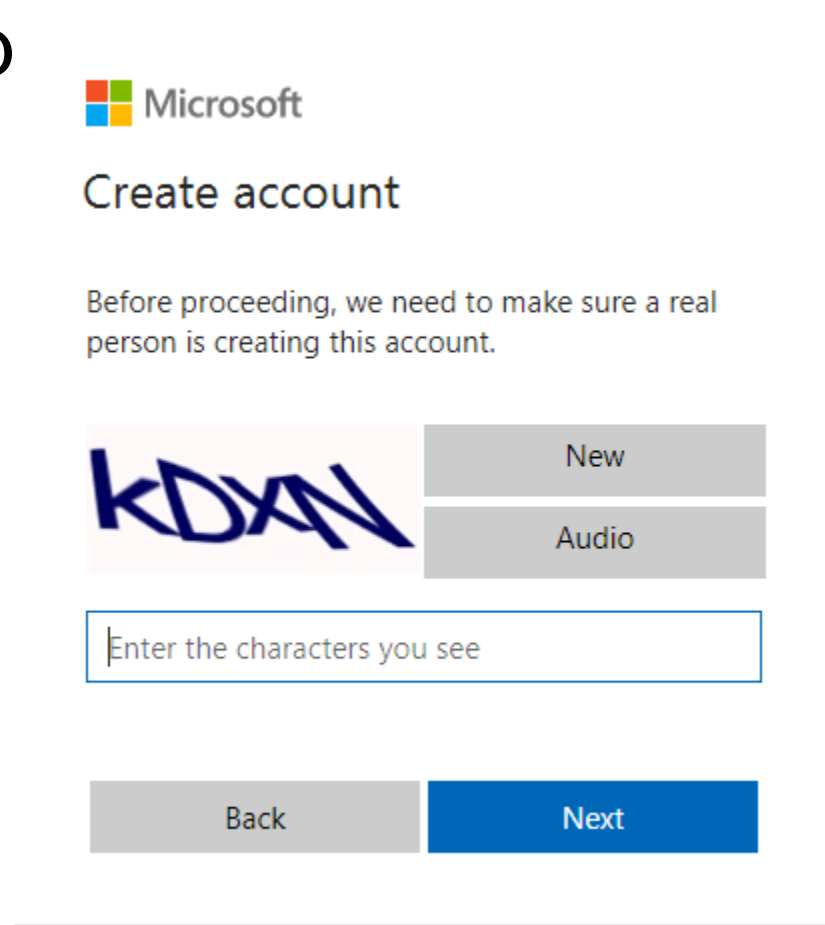
Creating a new account cont…

- You may be asked to verify that you are not a comp

Microsoft

Create account

Before proceeding, we need to make sure a real person is creating this account.
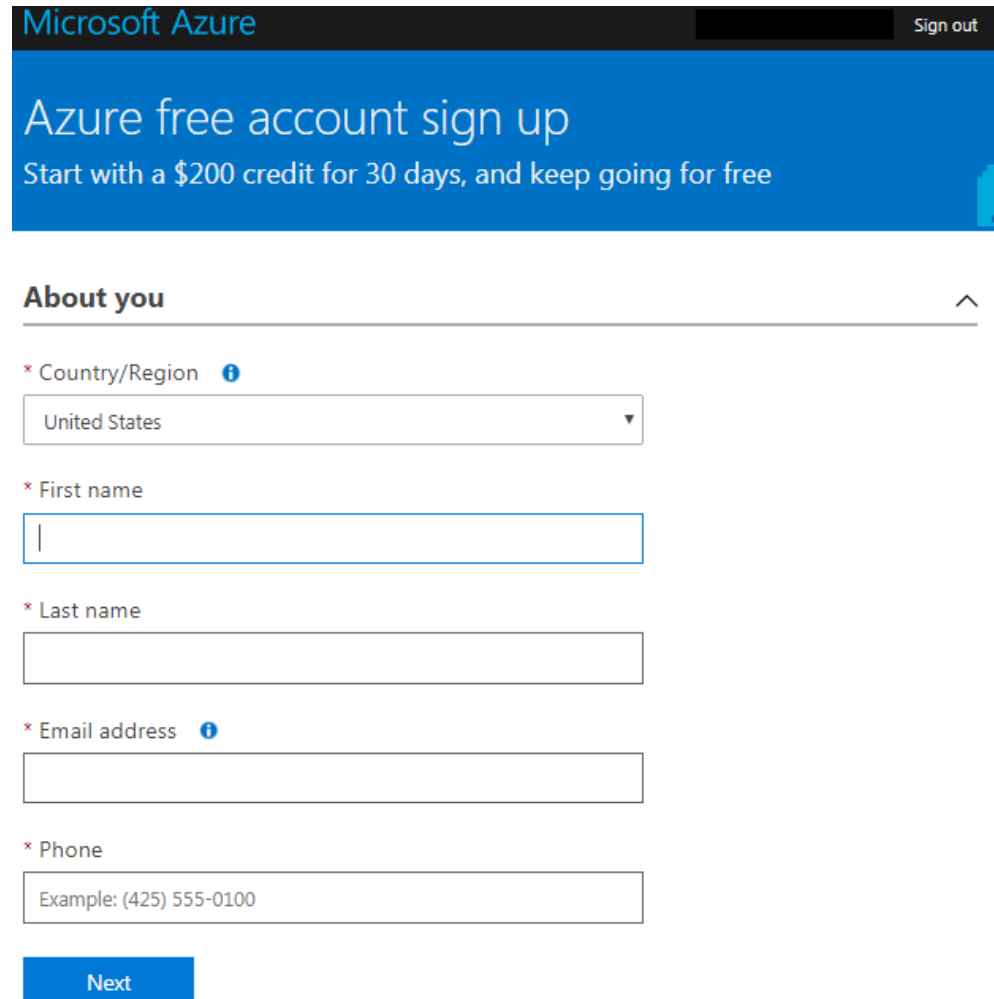
kDXN

| New |
| Audio |

Enter the characters you see

| Back | Next |

Creating a new account cont…

- Fill out the information about yourself in Step 1 and then select Next

Creating a new account cont…

- Provide a verification phone number and then select one or the other options to be contacted

Creating a new account cont…

- Enter your code that you received on your phone and select 'Verify code'

Creating a new account cont…

- You will have to add a credit card number here to continue and then select 'Next'

- As they note you will not be charged without converting to a paid offer
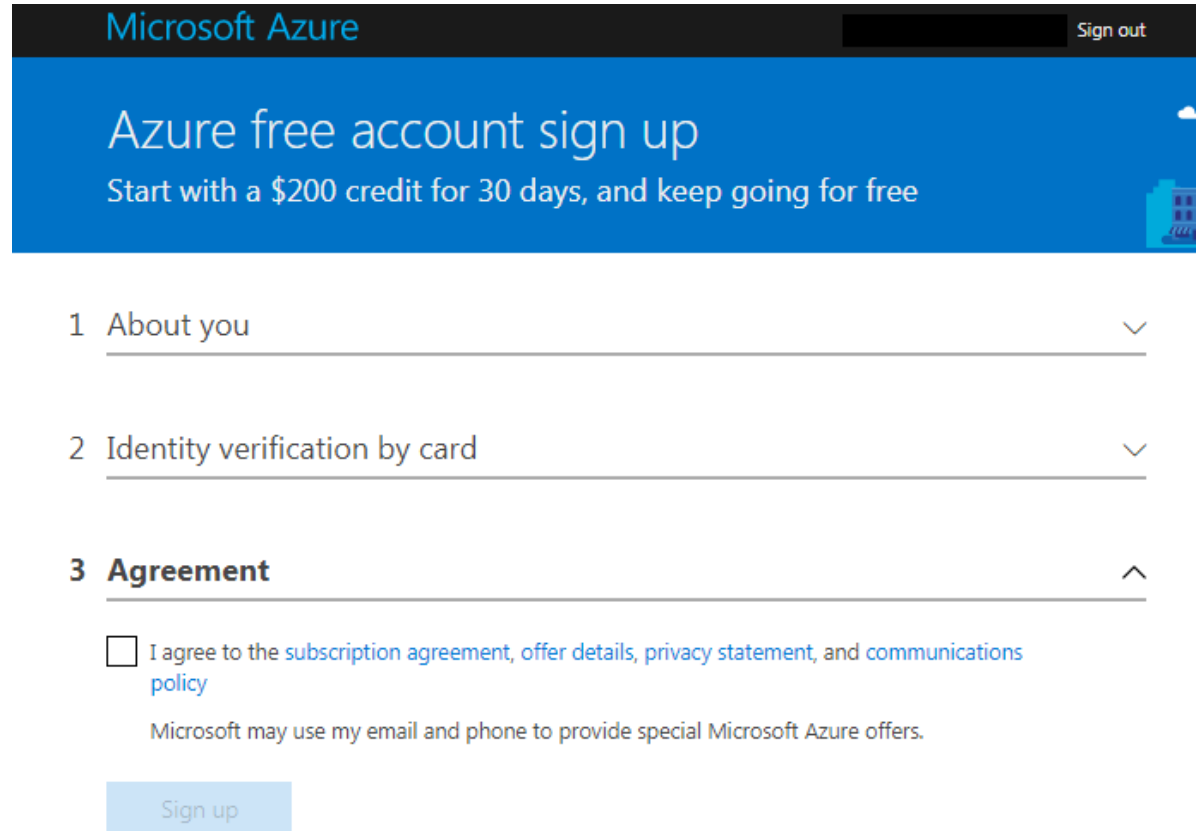
Creating a new account cont…

- Finally you will need to agree to the terms by selecting the check box and then you will select 'Sign up' and you will be brought to your new homepage

Microsoft Azure Portal

- The Azure Portal is your 'homepage' and will look like this when you first sign in :
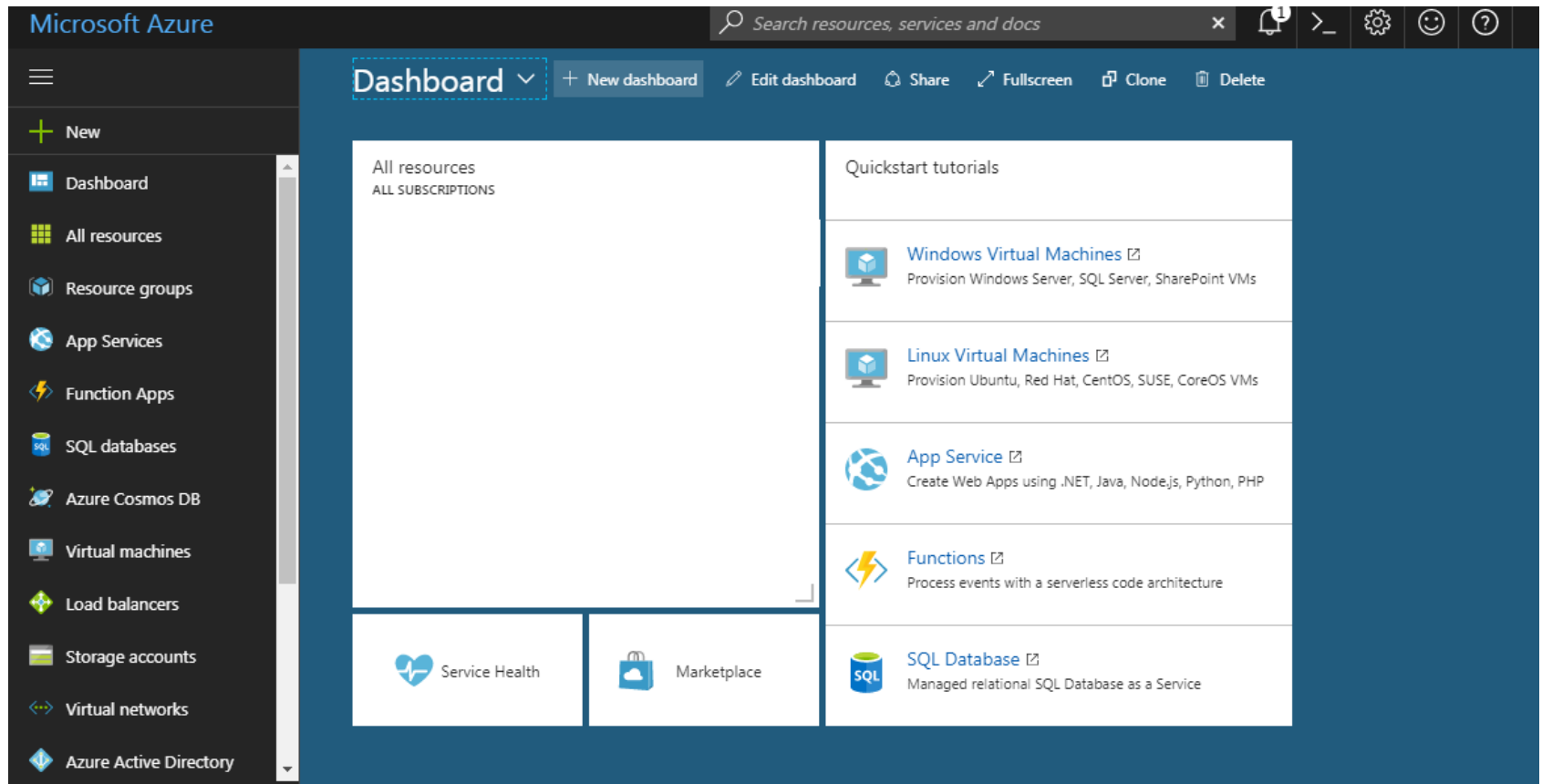
Microsoft Azure Portal

- Once you first log in, the quick guide will explain what each of the buttons can be used for on your dashboard
- If you did not use the quick guide on your first log in, you can select it by clicking the question mark in the circle (help button) on the top right then selecting launch guided tour
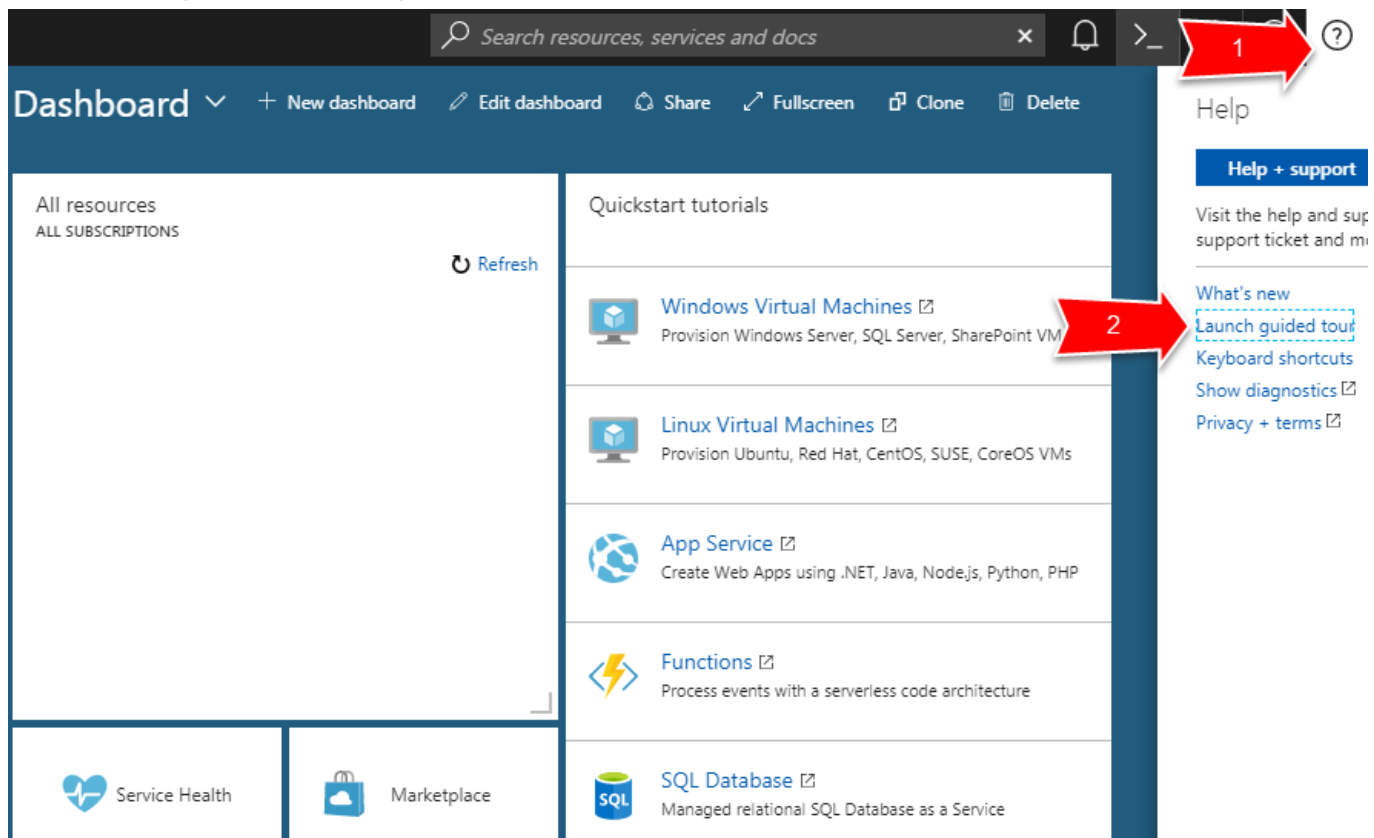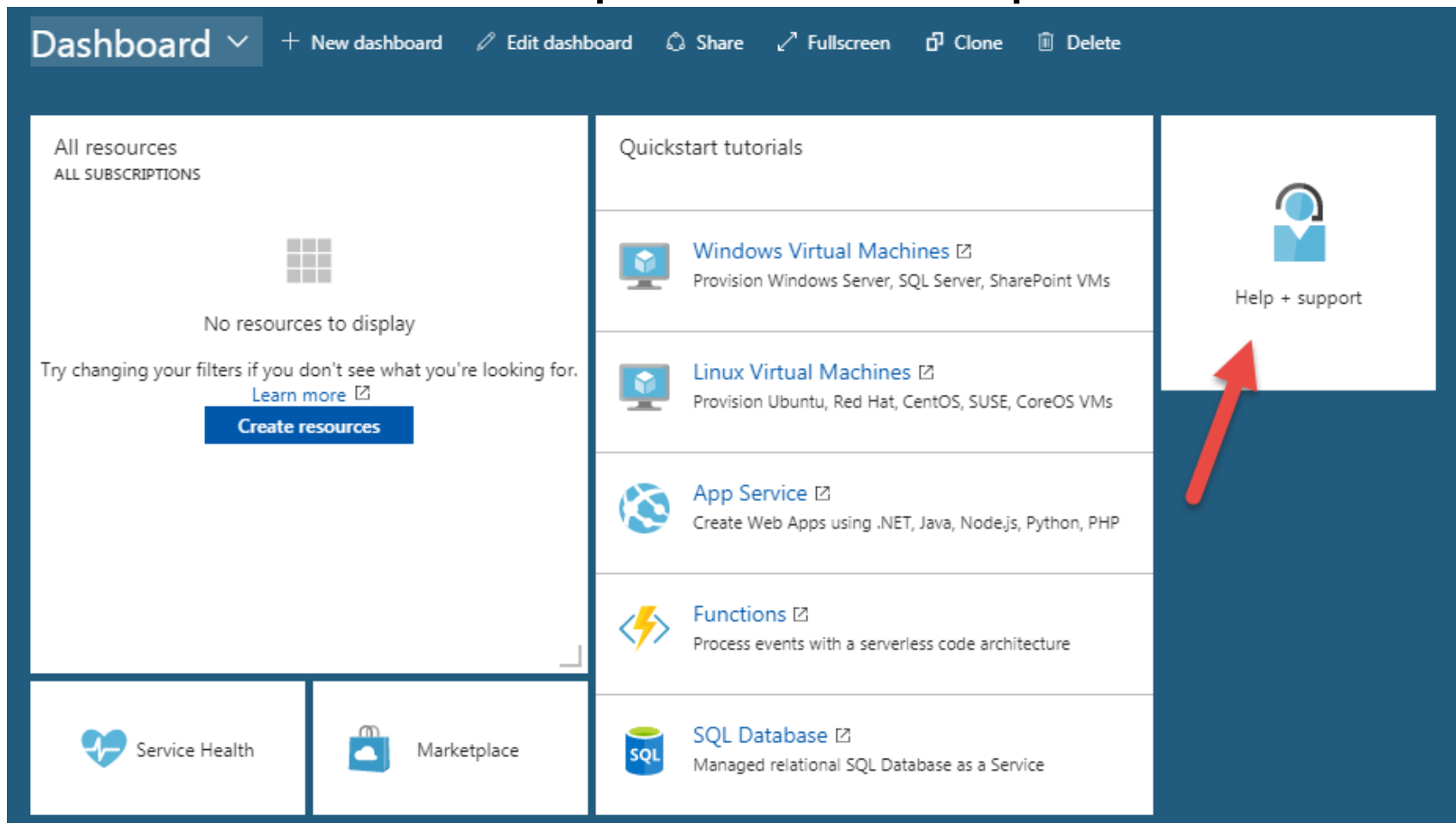
Microsoft Azure Portal

- You will be able to customize your portal to your liking using the 'edit dashboard' button
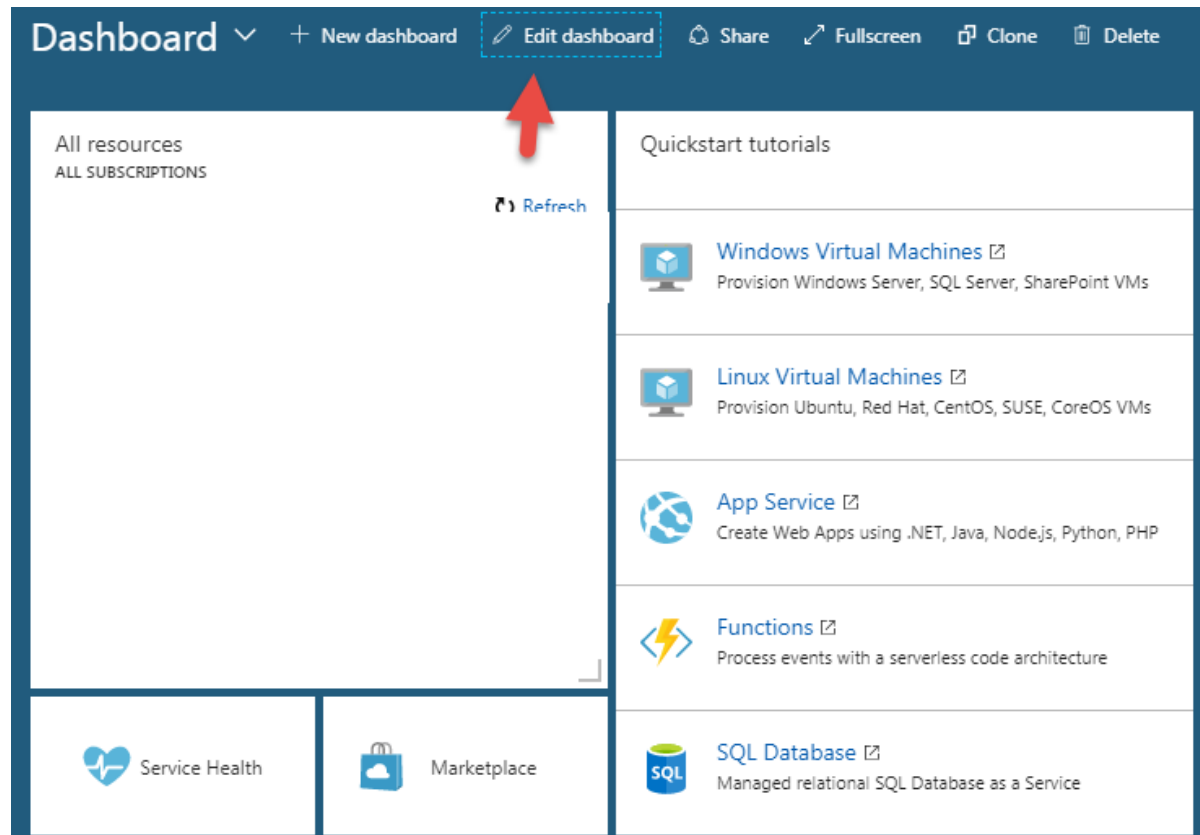
Adding to your dashboard

- I have added the help + support widget to my dashboard as a quick link to help for the future

Adding help + support

- Once you select 'edit dashboard' a tile gallery will appear on the left hand side

- Click and drag the 'help + support' widget to where you would like it on your dashboard

Customizing your dashboard

- Once you are done customizing your dashboard select the 'done customizing' button on the top of your screen
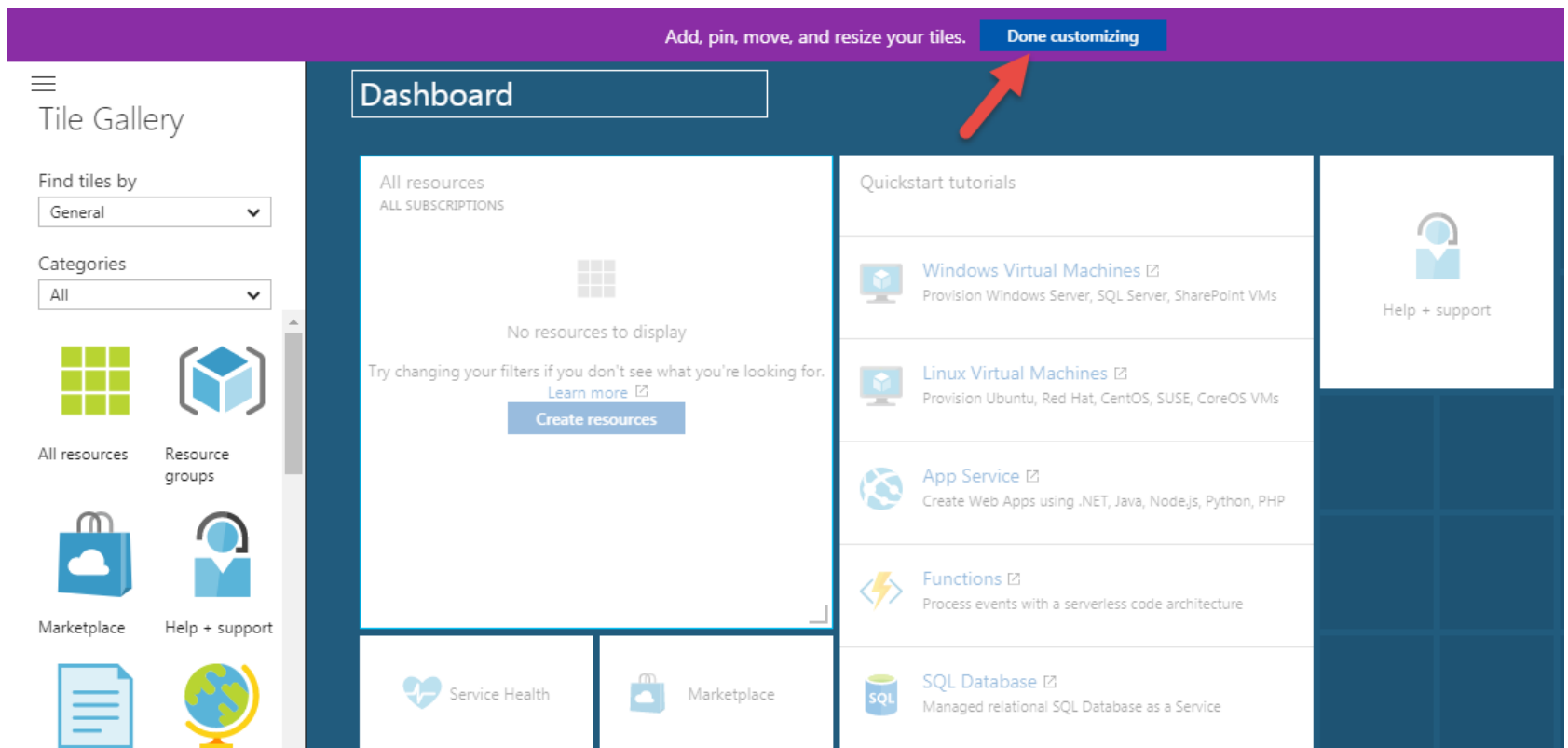
Azure Help

- Microsoft Azure has many places where you can get help
- The best locations for help are:
  - Tutorials directly on the site: https://docs.microsoft.com/en-us/azure/

  - YouTube: https://www.youtube.com/user/windowsazure

Microsoft Tutorials

- Each of the tutorials give step by step instructions, pictures, and videos of the 'how to' on the specific subject

Windows Virtual Machines Documentation

Azure Windows Virtual Machines provides on-demand, high-scale, secure, virtualized infrastructure using Windows Server. Learn how to create, configure, manage, and scale Windows VMs with our quickstarts, tutorials, and samples.

5-Minute Quickstarts

Learn how to deploy an IIS web-server within a Virtual Machine running Windows Server 2016:

Create a Windows Server Virtual Machine. (3:58)

Azure Portal   Azure PowerShell   Azure CLI

Microsoft's suggested Tutorials

- Microsoft recommends the following quick start tutorials to begin with Azure:

New to the Azure portal? Learn more about the following services. See more guides at azure.com/documentation

Windows Virtual Machines ↗
Provision Windows Server, SQL Server, SharePoint VMs

Linux Virtual Machines ↗
Provision Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service ↗
Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions ↗
Process events with a serverless code architecture

SQL Database ↗
Managed relational SQL Database as-a-Service

- More tutorials can be found at: azure.com/documentation

Azure YouTube Channel

- Microsoft also has a YouTube channel where you can learn more about Azure and watch how to guides on some of its features

https://www.youtube.com/user/windowsazure

- A quick and informative 1.5 minute YouTube video of what Azure is can be found here: https://www.youtube.com/watch?v=piVHidJq65o&list=PL8nfc9haGeb40GxCNHQ3Uv-qyI_-iLiOU