Module 03 Lab 02 Worksheet

Deploying your Web App to the Cloud

# Overview

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| Before beginning, make sure that you have enabled version control for your Lab01 project and your local repository is up to date. (If you followed all of the instructions from the last lab, you should be fine.) | 0 |
| * Open your project in VS Code, if it isn't already. * Sign on to the Azure portal. * Select App Services from the left-hand menu. * Click on Add in the App Services window. * Give your application a meaningful name (Azure will check to make sure the name you choose is unique.) * In the Resource Group box, select Create new and enter a name for the group.   (A *resource group* is just a collection of related cloud resources, ex. Databases, apps, storage and so forth.)   * At the bottom of the window, select Pin to dashboard. (This will make your app accessible from the front page of your portal dashboard.) * Click on Create. | 0 |
| * Once your App is created, go to the Overview page. * Copy and paste your application URL (5 pts.) * https://cschmidlinwebapp.azurewebsites.net * In another browser window or tab, go to the URL.   What do you see? (5 pts.) | 10 |
| A space for your app has been created but your code hasn't been uploaded yet. The term for this is *deployment*. The first we need to do is to set up our deployment options.   * In the App Deployment section, click on Deployment Options.   The first thing we're asked for is the *Deployment Source*. This is the location where our code will reside on Azure. We could upload the code directly, but instead we will link our local project repository to a repository up on Azure. This way, we can update our code on the desktop, test it and then push the changes up to Azure, updating our app instantly.  Click on Choose Source.  How many options are shown? (5 pts.)  8  List the available source options. (5 pts.)  Azure Repos  Github  Bitbucket  Local Git  OneDrive  Dropbox | 10 |
| * Click on Local Git Repository then click on Ok.   (This will store a copy of your code directly on Azure.)   * Click on Deployment Credentials. (You can't use your Azure account to authenticate with Git and FTP.) * Set a username and password. (DON'T FORGET THEM!) * Once you're satisfied with your login and password, click on Save. Otherwise, you can start over by clicking on Discard. * Click on Overview in your App Properties window.   Copy and paste your Git Clone URL here. ( 5 pts.)  https://cschmidlinwebapp.scm.azurewebsites.net:443/cschmidlinwebapp.git | 5 |
| In VS Code, open the Integrated Terminal and run the git remote add azure command followed by your Git URL to link your local repository to the repository you just created on Azure. For example:  git remote add azure https://tsinclair552@howdy-api.scm.azurewebsites.net:443/howdy-api.git  NOTE: This should be all on one line. | 0 |
| What was the response to this command? (5 pts.) No response. Just new prompt  Look at the left side of your VS Code status bar. What has changed? (5 pts.)  Able to publish changes | 10 |
| * Store your git credentials locally with the command:   git config credential.helper store   * Push your code up to Azure with the command   git push -u azure master  You'll be prompted for the deployment password you set earlier.  Once you've authenticated, what happens? (it may take a few moments) (5 pts.)  All the files get pushed that have been committed  Go back to the URL for your Azure application. What do you see now? (5 pts.) | 10 |
| * Add /home/About to the end of the URL in the browser location bar, then press <Enter>.   What happens? (5 pts.)  Goes to the about page  Replace /home/About with /home/Contact on the end of the URL. What happens? (5 pts.) Goes to the contact page | 10 |
| In the Azure App Overview, click on Activity log.  How many operations are shown? (5 pts.)  8 | 5 |
| * In VS Code, open About.cshtml and make a minor change in the text. * Save your changes and use dotnet run to test your code locally. * Once you're satisfied that it works, stop the server and commit your changes with an appropriate message.   Look at the left hand side of your status bar. What has changed? (5 pts.)  Circular arrow  Hover your mouse over the circular arrow. What does the tooltip say? (5 pts.)  Button to synchronize changes  Click on the circular arrow in the status bar. What happens? (5 pts.)  The source control button has 16 updates now. | 15 |
| * Go back to your public URL for your About page.   Does your change show up? ( 5 pts.)  Yes.   * Sign out of Azure. * Close your project folder.   The lab is complete. | 5 |
| **Total** | 80 |

# Summary

This lab introduced you to the process of deploying your Web application to a cloud service. In addition, we showed you how to link your local code repository to a remote repository on Azure, thus allowing you to make changes locally, test the changes and then sync them up with the public copy of the app.

So now our workflow is:

* Update our code
* Test the changes
* Commit changes locally
* Push changes to Azure.

Complete this worksheet and submit it to your instructor.