## McKesson Assignment 01 Deep Azure

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### Handed out: 10/10/2017 Due by 11:59 PM (CST) on Tuesday, 10/17/2017

**Problem 1.** You have seen that we could create a working Linux machine in Azure. Please repeat the exercise yourself. Demonstrate that you can open secure shell session with your machine. Through which port on your remote machine is this session established? Install Apache server and demonstrate that it works by visiting its home page on port 80. Show us how you enabled port 80 on your Linux machine. Find on the Internet where, in which directory of your installation, you have to copy (drop) static HTML pages if you want to display them on your Apache server. Write one simple “Hello World” HTML page on your local system. We insist “on your local”. Then transfer that page using scp (secure copy) command to your Linux machine. Google to learn how to use scp command or ask colleagues on Piazza. Subsequently, move that page to the proper Apache directory and demonstrate that it is visible on the public Internet. Shut down and delete your Linux machine. If you dare or you know what you are doing, you can work with a different flavor of Linux, and not Ubuntu. If you are new to this technology follow instructions and work with Ubuntu. If you do not have Cygwin or any similar software on your Windows laptop, please install it.

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Demonstrate that you can open secure shell session with your machine.

Through which port on your remote machine is this session established?

Port 22

**Problem 2.** Follow instructions in this tutorial **:** <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/quick-create-portal>and create a Windows machine. This time rather than an Apache server install an IIS server. To connect to a remote Windows machine, you do not use ssh command but rather use Remote Desktop Connection. You can find everything about that protocol on the Internet. We will also demonstrate it during the Thursday lab. In some fashion transfer your HTML page to that Windows server and demonstrate that you can see the page on the public Internet. Shut down and delete your Windows server.

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**Problem 3.** If you do not have a GitHub account, please create one. If you have it please demonstrate to us that you can login into GitHub. In either case create a small GitHub repository and upload some code to that repository. Please do not upload anything valuable. Free GitHub repositories are open to the public.

(10%)

SUBMISSION INSTRUCTIONS:

Your main submission should be an MS Word document containing your code, results produced by that code with brief textual descriptions of what you did and why. Use the text of this homework assignment as the template for the text presenting your solution. Typically, you copy important snippets of your code and the results into this very Word document. Please preserve statements of above problems. Please, describe the purpose of every code snippet and the significance of produced results. We will not accept as valid any code without actual numeric or textual result. Please add any other files that you might have used or generated. Please do not upload ZIP or RAR or any other archives. Canvas cannot open archives and they turn into a nuisance for us.