## McKesson Assignment 04 Deep Azure

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### Handed out: 11/01/2017 Due by 11:59 PM, midnight (CST) on Tuesday, 11/07/2017

**Problem 01.** Please use Azure CLI to create resource group. Please give that group a unique name. Again, using Azure CLI create an SQL server with user name and password. Subsequently, using Azure CLI create database within that server. Again using Azure CLI create server firewall. Open port 1433. Watch out, your corporate firewall might block your traffic. Use SQL Server Management Studio to connect to your database and create a simple table. Insert and query 2 rows using SSMS New Query window.

(20%)

**Problem 02**. Using Azure CLI create a Windows VM in the Azure resource group created in Problem #1. Demonstrate that you can connect to your Windows machine. Clean up all resources created in Problem 1 and 2 using Azure CLI.

(20%)

**Problem 03**. Identify all Azure Resource Providers that deliver some kind of database type of resource. Identify all types of resources you could provision from those providers. Select one provide and one “db-like” type of resource. Verify that the provider and selected type of resource are available in your region of choice. If not, find a region near-by where they are. Register yourself with that provider and then deploy an instance of one of the resources offered by selected provider. Do it first with a fixed, hardcoded template. Subsequently, modify your template so would accept command line parameters for various resource names. Demonstrate that you have removed all created resources. Use Azure CLI.

(30%)

**Problem 04**. Download CentOS7.4 or Ubuntu16.0.43 VM from the link bellow. Use VMWare Free Player to run one of those VMs. If you have VMware Workstation/Fusion, you can use it as well. The username and password for Ubuntu VM are buntu/buntu. The username and password for the CentoSO VM are centos/centos. Both VMs are somewhat smaller than 2 GB. You can download ZIO files and then expand on an external drive. On your VMs install curl, wget and git. You will need them in future. Use instructions in the attached documents describing Docker installation to install Docker to one or the other VM. You do not have to do it on both VMs. Just one is enough. Go to Docker public repository and create your account. Remember username and password. Once your Docker daemon is running pull down from the public repository either an ubuntu or centos container image and run the container in the interactive mode with an open bash shell. Once inside the container shell, tell us what date and time it is. When you exit the container ask your host VM for time and date. Compare the two. While your container is still running, open another command window and run commands: sudo docker info, sudo docker images and sudo docker ps. Provide results of those commands. Examine the content of the host VM directory /var/lib/docker. Describe that directory in some detail.

(30%)

Link to OneDrive provided by the courtesy of Kevin Henderson: [https://mckessoncorp-my.sharepoint.com/personal/kevin\_b\_henderson\_mckesson\_com/\_layouts/15/guestaccess.aspx?folderid=0799bfe00b5af46a5a3954b9bf5959280&authkey=ASxrWsv05dK1Z5\_m-up-5B4&expiration=2017-11-22T07%3A00%3A00.000Z&e=ab14a7a4b41c4aa990445af8c6ff5c00](https://urldefense.proofpoint.com/v2/url?u=https-3A__mckessoncorp-2Dmy.sharepoint.com_personal_kevin-5Fb-5Fhenderson-5Fmckesson-5Fcom_-5Flayouts_15_guestaccess.aspx-3Ffolderid-3D0799bfe00b5af46a5a3954b9bf5959280-26authkey-3DASxrWsv05dK1Z5-5Fm-2Dup-2D5B4-26expiration-3D2017-2D11-2D22T07-253A00-253A00.000Z-26e-3Dab14a7a4b41c4aa990445af8c6ff5c00&d=DwMGaQ&c=WO-RGvefibhHBZq3fL85hQ&r=AWwWj8m8G8c8Jf8xHqKusu1fARSoaNQEmc1ndir5RpQ&m=hRfT2r0Id2M56y7atD4h1bUKxuy8daNXKG26P7J-w8k&s=WECe7npUwtaGFvBw0AXbvVtB5TlRHKqssrAW9lAdf98&e=)

SUBMISSION INSTRUCTIONS:

Your main submission should be a MS Word or PDF document containing descriptions of your action while configuring Azure services. If your MS Word document is larger than 1 MB, save it as a MINIMIZED PDF. Please be merciful and capture small JPGs. Describe the purpose of every action and the significance of the results. Start with the text of this homework assignment as the template. Please add any other files that you might have used or generated. Please write your solution as if you are writing a tutorial for your colleagues. Please make your text readable. Make sure that your fonts, especially in captured images are not unreadable. Please do not provide ZIP or RAR or any other archives. Canvas cannot open those archives and they turn into a nuisance for us.