**Assignment 1**

**Overview:**

It is important in today’s cloud computing environment to be able to automate and schedule processes and tasks. Azure PowerShell is a set of cmdlets for managing Azure resources directly from PowerShell. Azure PowerShell is designed to make it easy to learn and get started with but provides powerful features for automation. In this assignment, you are expected to utilize PowerShell scripts to create storage account, resource groups and manage blob files.

**Pre-requisites:**

Ensure to install AZ module on your local computer to be able to access to your azure account instead of using Azure cloud shell.

Graphical user interface, text

Description automatically generated

A window will pop up, and you need to sign in using your Seneca id and password.

Graphical user interface, text, website

Description automatically generated

Create a resource group named ‘rg’

follow the recommended abbreviation for azure resource types:

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/azure-best-practices/resource-abbreviations>

Next, create a new Azure storage account in the ‘rg’ resource group that will be used for this assignment.

A computer screen capture

Description automatically generated with medium confidence

**Task 1: Create containers and upload files to Azure Blob storage using PowerShell:**

* 1. Create the container using PowerShell name it ‘cont1’.
  2. Create text files and upload it from your computer to your container ‘cont1’
  3. create a new container named ‘cont2’ in your Azure storage account and copy all files from ‘cont1’ to ‘cont2’.
  4. list the blobs from the container ‘cont2’ using PowerShell script.

**Task 2: Modifying a blob access tier**

* 1. Write PowerShell script to change the access tier of one of your blob files to ‘cool’
  2. Write PowerShell script to download a blob from Azure Storage to your local computer.
  3. Write PowerShell script to remove/delete a blob file.

**Submission Requirements:**

* Clear Screenshot of your script and the output of tasks 1.1, 1.2,1.3 and task 1.4.
* Clear Screenshot of your script and the output of tasks 2.1, 2.2 and task 2.3.
* Task 2.2 include screenshot of the downloaded files in your local computer.

**Azure PowerShell Documentation link:**

<https://docs.microsoft.com/en-us/powershell/azure/?view=azps-7.1.0>

**Rubric**

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| --- | --- |
| **Criteria/Questions** | **Possible Point** |
| **Task 1** |  |
| Executable correct code and output of each subtask 1.1 | 1 |
| Executable correct code and output of each subtask 1.2 | 1 |
| Executable correct code and output of each subtask 1.3 and successfully copy all the files | 1 |
| Executable correct code and successfully list all files in ‘cont2’ | 1 |
|  |  |
| **Task 2** |  |
| Executable correct code and output of each subtask 2.1 and successfully change access tier to ‘cool’ | 1.5 |
| Executable correct code that downloads files to your computer | 1 |
| Executable correct code that removes one of your blob files | 1 |
| **Total** | **7.5** |