## Lab 1 – Setup and Install

### Section A - Install Visual Studio Code

1. Open the Visual Studio Code(VsCode) page https://code.visualstudio.com/
2. Click the button to download the latest build for Windows. (Note: You will want to use the arrow to select a different OS if not using Windows.)

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1. Once it finishes downloading run the installer.
2. Install using default location, when prompted for “Select Additional Tasks” I prefer the following as it adds a few nice features such as right clicking in a folder to open it in VsCode:

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1. Once the install finishes, launch the program.

### Section B - Install Extensions

1. Open VsCode
2. Open the extensions tab:



1. Search for “PowerShell”

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1. Click on Install
2. Search for “azcli”

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1. Click on Install
2. Search for “HashiCorp Terraform”

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1. Click Install
2. Click on the Extension filter and change it to “Installed”

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1. It should include all 3 of the extensions we installed

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### Section C - Install Terraform for Windows

1. **Open VsCode as an Administrator**
2. With VsCode Open, select the View menu and choose Terminal

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1. You should now see the terminal in the bottom pane if it was not there before

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1. Create a directory for Terraform to store the executable:

**mkdir 'C:\Program Files\Terraform'**

1. Create a Temp directory for our labs

**mkdir c:\Temp\Lab**

1. For our lab we will download Terraform v1.0.8.

(Note: The latest Terraform can be found at: [**https://www.terraform.io/downloads.html**](https://www.terraform.io/downloads.html)) **Invoke-WebRequest -Uri https://releases.hashicorp.com/terraform/1.0.3/terraform\_1.0.8\_windows\_amd64.zip -OutFile c:\temp\lab\terraform.zip**

1. The file is now saved in the “C:\Temp\Lab” directory. Now we will expand it and copy to our Terraform Directory.

**Expand-Archive -Path C:\Temp\Lab\terraform.zip -DestinationPath 'C:\Program Files\Terraform\'**

1. Close VsCode
2. Now we will make sure that the terraform binary is available on the PATH. **Open Control Panel** -> **System** -> **Advanced System settings** -> **Environment Variables**
3. In the **System Variables** panel, scroll down until you find **PATH**, then select **Path** and click **Edit**
4. In the **Edit environment variable** window, click **New**
5. Enter **C:\Program Files\Terraform\**
6. Click **OK** in all three windows closing the **System Properties** completely

### Section D – Validate Terraform Install

After installing Terraform, verify that the installation worked, and what is the Terraform version.

1. Open VsCode as an Administrator
2. Type **terraform** press **Enter**
3. You will see the following result

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1. Now type **terraform -version** to validate Terraform installed version (As of Oct 1st, 2021, the latest version is 1.0.8)

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### Section E – Azure PowerShell

1. Set the Execution policy with:

**Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope CurrentUser**

1. Now install Azure PowerShell by running:

**Install-Module -Name Az -Force**

1. Note the previous step can take several minutes to run

### Section F - Install Azure Cli

1. Run the download and install using the following command:

**Invoke-WebRequest -Uri https://aka.ms/installazurecliwindows -OutFile .\AzureCLI.msi; Start-Process msiexec.exe -Wait -ArgumentList '/I AzureCLI.msi /quiet'**