<u>Preparing for setup for Terraform</u> Windows OS

Choco – is a package manager for installing software by using Command
1) Setting up choco
https://chocolatey.org/install

Set-ExecutionPolicy Bypass -Scope Process -Force;
[System.Net.ServicePointManager]::SecurityProtocol =
[System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex
((New-Object
System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))

```
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Windows PowerShell

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PS C:\Windows\system32> choco -v

2.2.2

PS C:\Windows\system32>
```

2) We need to install aws cli

```
Administrator Windows PowerShell
Windows PowerShell
Windows PowerShell
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S C:\Windows\system32> choco -v
2.2.2

S C:\Windows\system32> choco install awscli
Processing v2.2.2

S C:\Windows\system32> choco install awscli
Processing v2.2.2

Sy installing the following packages:

mascli v2.1.5.26 [Approxed]

awscli v2.1.5.26 [Approxed]

awscli v2.1.5.26 [Approxed]

awscli package files install completed. Performing other installation steps.

The package awscli awnts to run 'chocolateyinstall.psi',
Wote: If you don't run this script, the installation will fail.
Wote: To confirm automatically next ties, use 'ey' or consider:
choco feature enable -n allowGlobalConfirmation

Do you want to run the script?([Y]es/[A]ll - yes to all/[N]o/[P]rint): yes

DownLoading awscli 64 bit

from 'https://awscli.amazonaws.com/AMSCLIV2-2.15.26.msi'
Progress: 100% - Completed download of C:\Users(xdell\AppOBtat\local\Temp\chocolatey\awscli\2.15.26\AMSCLIV2-2.15.26.msi (38.68 MB).

DownLoad of AMSCLIV2-2.15.26.msi (38.68 MB) completed.

Hashes match.

Installing awscli...

awscli may be able to be automatically uninstalled.

Environment Vars (like PAH) have changed. Close/reopen your shell to see the changes (or in powershell/cnd.exe just type 'refreshemv').

The install of awscli mas successful.

Software installed as NRSI', install location is likely default.

Chocolatey installed 1/1 packages.

See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.logs).
```

3) Now we need to install git

https://community.chocolatey.org/packages/git

```
PS C:\Windows\system32> <mark>choco</mark> install git -y
Installing the following packages:
By installing, you accept licenses for the packages.
Progress: Downloading chocolatey-compatibility.extension 1.0.0... 100%
chocolatey-compatibility.extension v1.0.0 [Approved]
chocolatey-compatibility.extension package files install completed. Performing other installation steps.
 Installed/updated chocolatey-compatibility extensions.
Progress: Downloading chocolatey-core.extension 1.4.0... 100%
 hocolatey-core.extension v1.4.0 [App
 hocolatey-core.extension package files install completed. Performing other installation steps.
 Installed/updated chocolatey-core extensions.
 The install of chocolatey-core.extension was successful.
Software installed to 'C:\ProgramData\chocolatey\extensions\chocolatey-core'
Progress: Downloading git.install 2.44.0... 100%
 it.install v2.44.0 [Approved]
git.install package files install completed. Performing other installation steps.
 sing Git LFS
Installing 64-bit git.install...
git.install has been installed.
git.install installed to 'C:\Program Files\Git'
 git.install can be automatically uninstalled.
 nvironment Vars (like PATH) have changed. Close/reopen your shell to see the changes (or in powershell/cmd.exe just type `refreshenv`). The install of git.install was successful.
Progress: Downloading git 2.44.0... 100%
 it v2.44.0 [Approv
git package files install completed. Performing other installation steps.
 The install of git was successful.
| Software installed to 'C:\ProgramData\chocolatey\lib\git'
Chocolatey installed 4/4 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\Windows\system32>
```

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```
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PS C:\Windows\system32> git --version
git version 2.44.0.windows.1

PS C:\Windows\system32>
```

4) Download VSCode

https://community.chocolatey.org/packages/vscode

```
Administrator Windows PowerShell
Mindows RowerShell
Mindows RowerShell
Mindows RowerShell https://aka.ms/pscore6
PS C:\Mindows\system32 git --version
git version 2.44.0.windows.1
PS C:\Mindows\system32 git --version
git version 2.44.0.windows.1
PS C:\Mindows\system32 hoco upgrade vscode -y
Mindows\system32 hoco
Mindows\syste
```

5) Now we need to install Terraform'

https://community.chocolatey.org/packages/terraform

For mac:

Homebrew

https://brew.sh/

Awscli

https://formulae.brew.sh/formula/awscli

```
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Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
Installing the following packages:
By installing, you accept licenses for the packages.
    Progress: Downloading terraform 1.7.3... 100%
terraform package files install completed. Performing other installation steps.
 Removing old terraform plugins
 Downloading terraform 64 bit
       from 'https://releases.hashicorp.com/terraform/1.7.3/terraform_1.7.3_windows_amd64.zip'
Progress: 100% - Completed download of C:\Users\dell\AppData\Local\Temp\chocolatey\terraform\1.7.3\terraform_1.7.3_windo
    vs_amd64.zip (25.05 MB).
    Oownload of terraform_1.7.3_windows_amd64.zip (25.05 MB) completed.
Hashes match.
    extracting C:\Users\dell\AppData\Local\Temp\chocolatey\terraform\1.7.3\terraform_1.7.3_windows_amd64.zip to C:\ProgramDa
  ta\chocolatey\lib\terraform\tools...
C:\ProgramData\chocolatey\lib\terraform\tools
    ShimGen has successfully created a shim for terraform.exe % \left( 1\right) =\left( 1\right) \left( 1\right) \left(
      The install of terraform was successful.

Software installed to 'C:\ProgramData\chocolatey\lib\terraform\tools'
   Chocolatey installed 1/1 packages.
     See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
     Did you know the proceeds of Pro (and some proceeds from other licensed editions) go into bettering the community infrastructure? Your support ensures an active community, keeps Chocolatey tip-top, plus it nets you some awesome features! https://chocolatey.org/compare
      S C:\Windows\system32>
```

```
Administrator: Windows PowerShell

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Windows\system32> terraform -v
Terraform v1.7.3
on windows_amd64

Your version of Terraform is out of date! The latest version
is 1.7.4. You can update by downloading from https://www.terraform.io/downloads.html
PS C:\Windows\system32>
```

Create a new **file/dir** with the name of **terraform** Provider in Terraform:

- 1) Provider: (onetime) it is nothing but, a cloud platform on which we create virtual infra.
 - a) Cloud plugin
 - b) Credentials
 - c) Region

- 2) Resource block: this is a mandatory block that contains information about the resource, it also contains an argument
- 3) output block: (optional) This block contains all the attributes (output values) information attributes values mean output values.
- 4) module: this is also optional modules are reusable terraform templates.

```
Select Administrator: Windows PowerShell
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Windows\system32> terraform --help
Usage: terraform [global options] <subcommand> [args]
The available commands for execution are listed below.
The primary workflow commands are given first, followed by
less common or more advanced commands.
Main commands:
                Prepare your working directory for other commands
 init
               Check whether the configuration is valid
 validate
                Show changes required by the current configuration
 plan
                Create or update infrastructure
 apply
 destroy
                Destroy previously-created infrastructure
All other commands:
                Try Terraform expressions at an interactive command prompt
 console
 fmt
                Reformat your configuration in the standard style
 force-unlock Release a stuck lock on the current workspace
                Install or upgrade remote Terraform modules
                Generate a Graphviz graph of the steps in an operation
 graph
 import
                Associate existing infrastructure with a Terraform resource
 login
                Obtain and save credentials for a remote host
                Remove locally-stored credentials for a remote host
 logout
                Metadata related commands
 metadata
 output
                Show output values from your root module
                Show the providers required for this configuration
 providers
 refresh
                Update the state to match remote systems
```

```
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PS C:\Windows\system32> aws configure

AWS Access Key ID [None]: ARTANDARD AND Secret Access Key [None]: 9Qizekana AND Secret Access Key [None]: us-east-2

Default region name [None]:
PS C:\Windows\system32>
```



