

## TERRAFORM SETUP

1) Install Visual studio code -> <https://code.visualstudio.com/download>

2) Go to terraform official website and download terraform for windows  
<https://www.terraform.io/downloads>

3) Now open the zip and paste the exe file in C -> windows -> system32

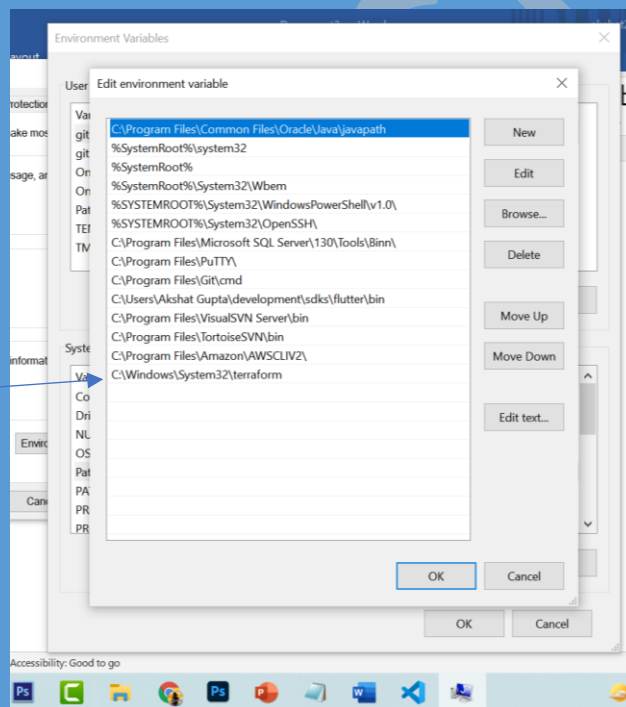
(you can paste it anywhere but as per some company norms it should be in system32 folder)

4) Now search environment variables

And there click on environment variables button

In system variables -> double click on PATH

And paste the Terraform path there.... C:\Windows\System32\terraform



5) Now create a working folder...lets say project A

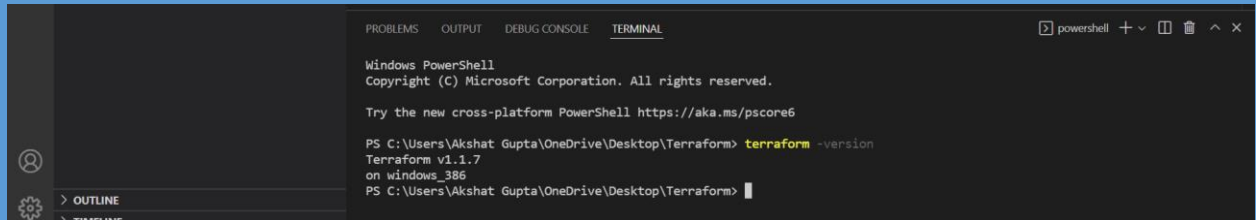
6) Now open visual studio code

File -> Open folder -> project A

- 7) Now there on terminal -> New terminal
- 8) Now in that terminal check if terraform is properly installed or not .

For that put

➤ terraform -version



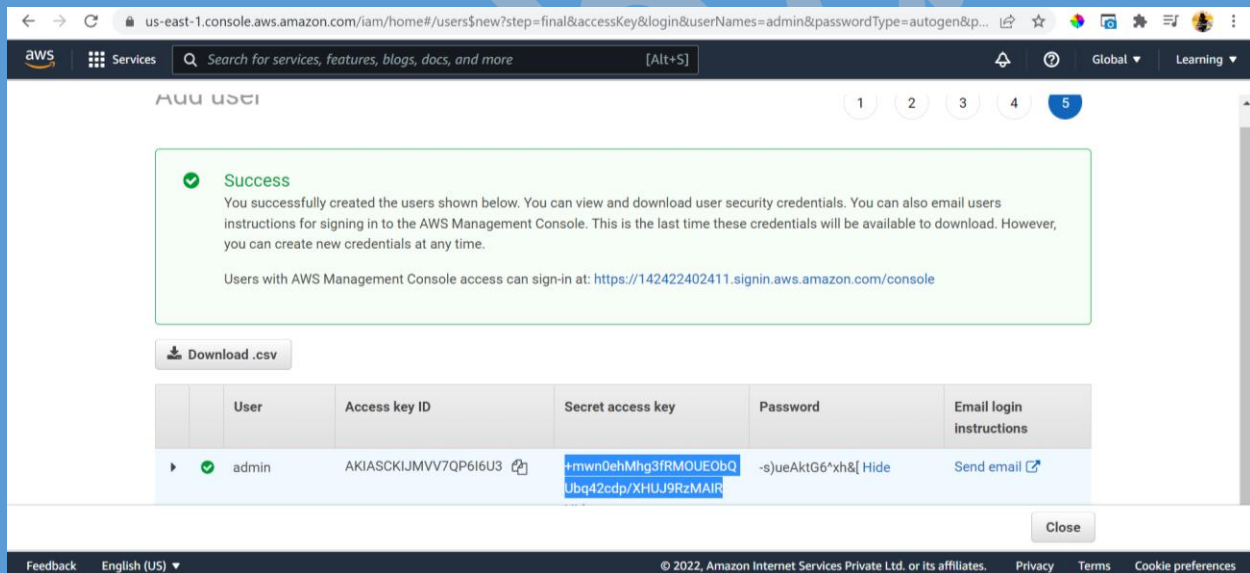
```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Akshat Gupta\OneDrive\Desktop\Terraform> terraform -version
Terraform v1.1.7
on windows_386
PS C:\Users\Akshat Gupta\OneDrive\Desktop\Terraform>
```

## 9) 1<sup>st</sup> method to configure AWS:

Create IAM role with complete admin access



**Success**  
You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://142422402411.signin.aws.amazon.com/console>

[Download .csv](#)

	User	Access key ID	Secret access key	Password	Email login instructions
▶	admin	AKIASCKIJMVV7QP6I6U3	+mwn0ehMhg3fRMOUEObQ Ubbq42cdp/XHUJ9RzMAIR	-sJueAktG6*xh&[ Hide	<a href="#">Send email</a>

[Close](#)

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Search Aws terraform provider in google.com

Click <https://registry.terraform.io/providers/hashicorp/aws/latest/docs>

Now scroll down

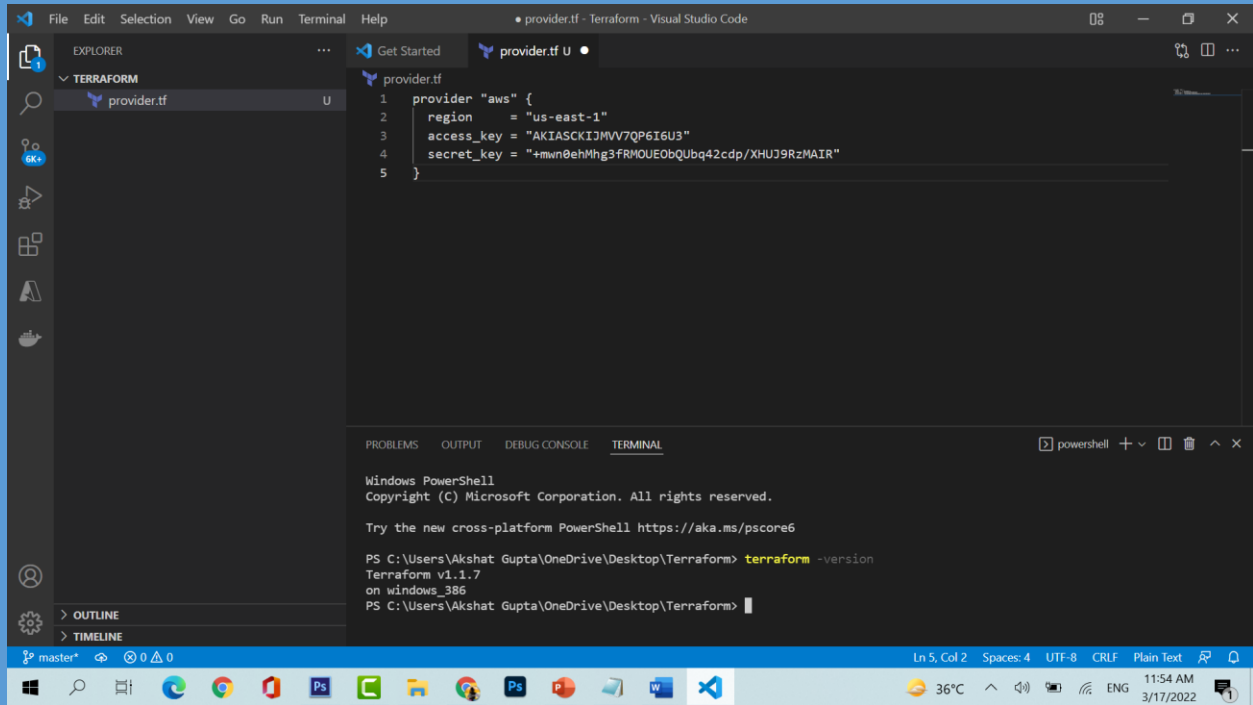
```
provider "aws" {
  region      = "us-west-2"
  access_key  = "my-access-key"
  secret_key  = "my-secret-key"
```

```
}
```

In above replace region with us-east-1

Access\_keys with the access key for iam user and secret key with secret key of iam user

Image:



The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a folder named 'TERRAFORM' containing a file 'provider.tf'. The main editor area displays the contents of 'provider.tf', which is a Terraform configuration for the AWS provider. The configuration sets the region to 'us-east-1', the access\_key to 'AKIASCKIIMV7QP6I6U3', and the secret\_key to '+mwn8ehMhg3FRMOUEObQubq42cdp/XHUJ9RzMAIR'. The bottom panel shows the 'TERMINAL' tab with a Windows PowerShell prompt. The prompt shows the command 'terraform -version' being executed, resulting in the output 'Terraform v1.1.7 on windows\_386'. The status bar at the bottom indicates the file is 'provider.tf' at line 5, column 2, with 4 spaces, UTF-8 encoding, and CR/LF line endings.

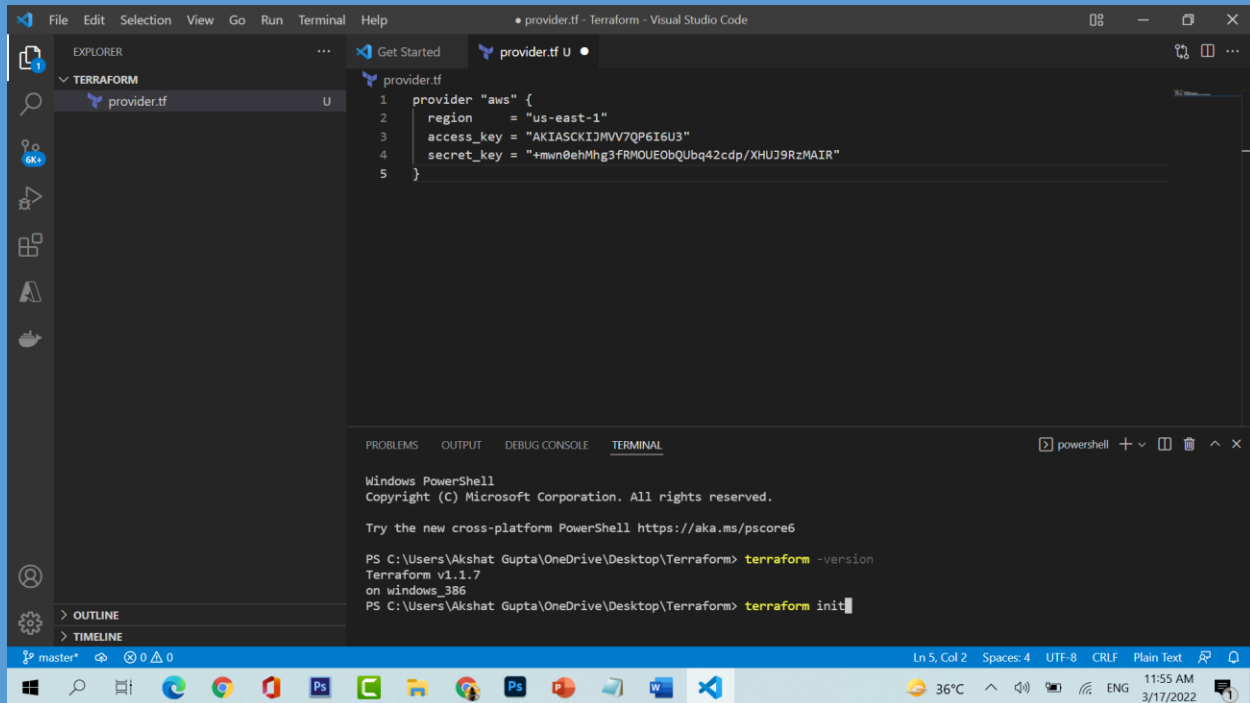
```
provider.tf
1 provider "aws" {
2   region = "us-east-1"
3   access_key = "AKIASCKIIMV7QP6I6U3"
4   secret_key = "+mwn8ehMhg3FRMOUEObQubq42cdp/XHUJ9RzMAIR"
5 }
```

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

PS C:\Users\Akshat Gupta\OneDrive\Desktop\Terraform> terraform -version
Terraform v1.1.7
on windows_386
PS C:\Users\Akshat Gupta\OneDrive\Desktop\Terraform>
```

10) To initiate terraform use "terraform init" command in terminal



The screenshot shows the Visual Studio Code interface with the Terraform provider.tf file open. The file contains the following configuration:

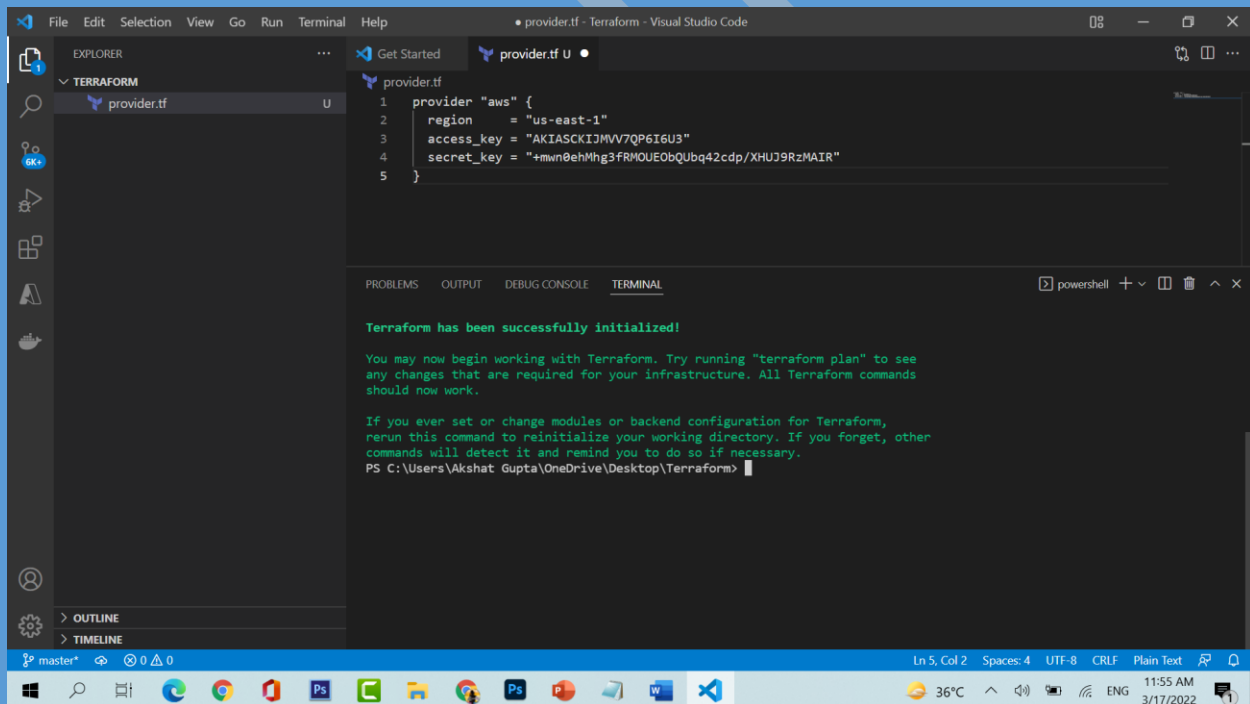
```
1 provider "aws" {
2   region = "us-east-1"
3   access_key = "AKIASCKIIMVV7QP6I6U3"
4   secret_key = "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"
5 }
```

The terminal output shows the execution of the terraform init command:

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

PS C:\Users\Akshat Gupta\OneDrive\Desktop\Terraform> terraform -version
Terraform v1.1.7
on windows_386
PS C:\Users\Akshat Gupta\OneDrive\Desktop\Terraform> terraform init
```



The screenshot shows the Visual Studio Code interface with the Terraform provider.tf file open. The file contains the following configuration:

```
1 provider "aws" {
2   region = "us-east-1"
3   access_key = "AKIASCKIIMVV7QP6I6U3"
4   secret_key = "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"
5 }
```

The terminal output shows the successful execution of the terraform init command:

```
Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
PS C:\Users\Akshat Gupta\OneDrive\Desktop\Terraform>
```

It means our terraform is initialized successfully

## 2<sup>nd</sup> method to connect to AWS and terraform

- 1) Search for AWS cli
- 2) <https://awscli.amazonaws.com/AWSCLIV2.msi> download the software from here
- 3) Install the software
- 4) now go restart your visual studio code
- 5) and then in terminal G
  - aws configure
- 6) in terminal it will ask for access key and access secret key

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