Install the following on your local machine:

* Terraform CLI: <https://developer.hashicorp.com/terraform/install>

 Go to the Terraform Downloads Page

 Download the **Windows (64-bit)** zip.

 Extract the zip to a folder like C:\Terraform

 Add that folder to your **System Environment Variables**:

* Open Start → Search “Environment Variables”
* Under **System Variables**, edit Path → Add C:\Terraform

 Open a new Command Prompt and run:

bash

CopyEdit

terraform -v

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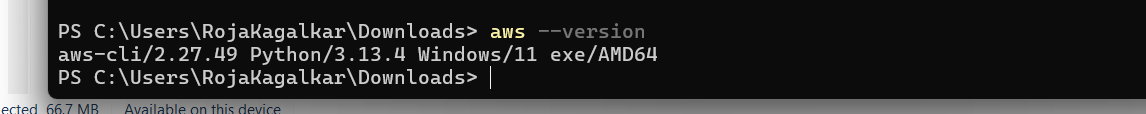
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AWS CLI: <https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2.html>

Download

<https://awscli.amazonaws.com/AWSCLIV2.msi>

aws --version



Create at user at AWS console: <https://console.aws.amazon.com/iam/>

https://us-east-1.console.aws.amazon.com/iam/home#/users/create

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User name: xops-Roja

Set permisiios: [AmazonEC2FullAccess](https://us-east-1.console.aws.amazon.com/iam/home#/policies/details/arn%3Aaws%3Aiam%3A%3Aaws%3Apolicy%2FAmazonEC2FullAccess) [AmazonVPCFullAccess](https://us-east-1.console.aws.amazon.com/iam/home#/policies/details/arn%3Aaws%3Aiam%3A%3Aaws%3Apolicy%2FAmazonVPCFullAccess) [IAMUserChangePassword](https://us-east-1.console.aws.amazon.com/iam/home#/policies/details/arn%3Aaws%3Aiam%3A%3Aaws%3Apolicy%2FIAMUserChangePassword)

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Create User

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User is created

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Enable cconsole access

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Click on auto generated

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|  |  |  |
| --- | --- | --- |
| User name | Password | Console sign-in URL |
| xops-Roja | j9OM-H3) | https://716173092994.signin.aws.amazon.com/console |

Now create an accesskey



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Open your terminal and run:

bash

aws configure

Enter the credentials:

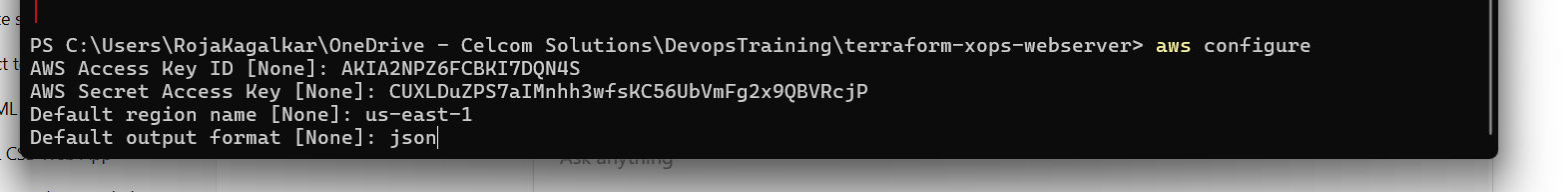
|  |  |
| --- | --- |
| Access key ID | Secret access key |
| AKIA2NPZ6FCBKI7DQN4S | CUXLDuZPS7aIMnhh3wfsKC56UbVmFg2x9QBVRcjP |

AWS Access Key ID [None]: <your-access-key-id>

AWS Secret Access Key [None]: <your-secret-access-key>

Default region name [None]: us-east-1

Default output format [None]: json



Run AWS CLI commands like:

bash

aws s3 ls

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Create an GIT repository at path

C:\Users\RojaKagalkar\OneDrive - Celcom Solutions\DevopsTraining\terraform-xops-webserver\terraform-xops-webserver

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Create file main.tf

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Open terminal

terraform init

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terraform plan

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terraform apply

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Add the following **below your existing resources** in main.tf:

Create a file outputs.tf (or add to existing):

Run the following in your project folder:

bash

terraform init # Only needed the first time

terraform plan

terraform apply

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Error resolved:

ssh-keygen -t rsa -b 2048 -f C:\Users\RojaKagalkar\xops-key

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Output:

Outputs:

ec2\_id = "i-0e7e698f6e3839f49"

ec2\_instance\_id = "i-0e7e698f6e3839f49"

ec2\_public\_dns = "ec2-52-66-204-136.ap-south-1.compute.amazonaws.com"

ec2\_public\_ip = "52.66.204.136"

ec2\_public\_ip1 = "52.66.204.136"

elastic\_ip = "3.108.179.109"

key\_name = "xops-key"

private\_key\_path = "./xops-key.pem"

ssh -i your-key.pem [ec2-user@3.108.179.109](mailto:ec2-user@3.108.179.109)

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terraform apply -auto-approve

<http://3.108.179.109/>

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terraform destroy

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terraform apply -auto-approve

Outputs:

ec2\_public\_ip = "13.203.143.64"

key\_name = "xops-key"

private\_key\_path = "./xops-key.pem"

xops\_web\_url = <http://13.203.143.64>

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