Question 6 – Write a Terraform script to create a sample infrastructure in the public cloud on AWS.

I started off by installing curl but as it was already installed it just shows the version below.

Text

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Then installed terraform and updates

Text

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Verified the version of terraform

Text

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Installed docker

Text

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After sudo apt-get update and sudo apt install docker-ce we ran hello-world to test docker

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I then ran into problems as the service was offline:

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface

Description automatically generated

The next day I was able to get access and I configured aws cli

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Created new directory and ran nano main.tf file to save in the given text:

Text

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Initialised terraform and validated the installation:

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Applied changes:

Text

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Got an error and edited the file to change it another version in my region but still getting the error:

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The reason for the errors on both occasions was because I had the region wrong – changed it again and the instance was added.

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Graphical user interface, application

Description automatically generated

Modified main.tf file to change the version of linux:

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After validation I ran terraform plan: 1 to add and 1 to destroy as expected

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Applied the changes:

Graphical user interface, text

Description automatically generated

Original instance is terminated:

Graphical user interface, text, application, email

Description automatically generated

Ran terraform destroy to terminate all instances:

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Description automatically generated

Text

Description automatically generated



After init, fmt and validate I ran apply:

Text

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Added new variable called “tag” to terraform.tfvars and updated both variables.tf and main.tf

Text

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Text

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Graphical user interface, text, application, email

Description automatically generated

Terraform graph output:

Text

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Created outputs.tf

Text

Description automatically generated

Changed the instance name again and ran terraform plan to see the output. Then applied:

Text

Description automatically generated

Text

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Ran terraform output to see the output:

Text

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Ran terraform destroy to remove all instances:

Text

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