

Task 1_Documentation

- I have installed [AWS CLI v2] and logged in to my AWS account:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\pc> aws configure
AWS Access Key ID [*****3I7P]: ASIAW5IRVVVP25DVJZB3
AWS Secret Access Key [*****Tq7g]: ydH1uM2NR7IYKX2eH9nz9YQnltAk+pPAq/n3fA0s
AWS Session Token [*****IQ==]: IQoJb3JpZ2LuX2VjEAgACWV1LXdLc3Q0tMSJHMEUCIFLZTe46a/TTMZQm+cgEl0eKqdap37yaNerP5f
J+fxc/AiEAreuwigKBBoIIKzVu68Z3LzuKpjdWL2Hdqm+QdRugA4EAqmQMIof/////////ARABGgw0NzUxNjc4MjkzNDMiDM03xVKzlpj23VBhyrtAooTnt
ubC3pJ/qgZF1CJLBTp83oKEAz0pYXUIzqwlJz26fFEibrte2LRxd4P6VfV5TyZ0PK/KDKp5Qy/HaaHR4Rj1DQ9/GEqta0ytspm9LpLHLaphSe3L4q6BhDCz
ryqnQ07LZJ6dGaZCLNu1MiM/Tfs73rR0WagH06AJoU+HvXNw00u04r0LQKTy0djiJQ5Wa3BcXC4cCN21bmThALiz2aTrP+ZzU69fU/04/Kb2buW4/8w8pPrj
XJT2LyRDVUuk+VWgh15CDs1nhpuiLL7/yoWmmB0xpw2W2RSBBAiv+8p4tYt4nY44X/uw009iSzArUBk6rgGchfhCFj10F9ezhQ31daDB6DhX7ycwZaZrsXg
tKTGpFF7y1nH19Ry5Xqk+W8N3Iw0C68Fe3xtAU4FPMgixrIrqTfu/s86t4/gzG03iS5DM3AhLLak0i/mvD07ZwSOQhmXHQZ3p2n5g00jXxUGL1MtqJRZ31m
KwMOGEk8cG0qYBD006rUgIzXTKYLPCGovQQ0ZavBqmpkcHf02IISIS7VLrozYftVSZ+v6aEzXD+l18a9/T9/uFKY0kl6YgK0AEZwX+HZkDJh5Wph0/7+7LrQ
DsvtCshPVJ0tZ3Wi8dxEbZU3NmPqY2x64wGwpEzx4UfNuHrdA0M8ybFyqFqns55CToGdBz3AIBe9ec6y1YNaF7XH/fr9teUKLPM8iUkf0GW/E8DRbK8g==
Default region name [eu-west-1]: eu-west-1
Default output format [json]: json
PS C:\Users\pc> aws sts get-caller-identity
{
  "UserId": "AROAW5IRVVVPX5IQQOLSI:ag9418383@gmail.com",
  "Account": "475167829343",
  "Arn": "arn:aws:sts::475167829343:assumed-role/AWSReservedSSO_ReadOnlyAccess_cb905ab27265e4e0/ag9418383@gmail.com"
}

PS C:\Users\pc>
```

- I have Downloaded and installed Terraform:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● PS C:\Users\pc\Desktop\Konecta Internship\Hands-on\Task> terraform -version
Terraform v1.13.3
on windows_386
○ PS C:\Users\pc\Desktop\Konecta Internship\Hands-on\Task> █
```

- Initialize Terraform Project:

```
● PS C:\Users\pc\Desktop\Konecta Internship\Hands-on\Task> terraform init
Initializing the backend...
Initializing provider plugins...
- Finding hashicorp/aws versions matching "~> 6.0"...
- Installing hashicorp/aws v6.15.0...
- Installed hashicorp/aws v6.15.0 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

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\pc\Desktop\Konecta Internship\Hands-on\Task> █
```

- **Structure of the project:**

```

terraform-project/
├── main.tf
├── variables.tf
├── outputs.tf
├── terraform.auto.tfvars
├── vpc/
│   ├── vpc.tf
│   ├── variables.tf
│   └── outputs.tf
├── ec2/
│   ├── ec2.tf
│   ├── variables.tf
│   └── outputs.tf
└── s3/
    ├── s3.tf
    ├── variables.tf
    └── outputs.tf

```

- **Commands used to import resources:**

- terraform import module.vpc.aws_vpc.main vpc-0d96df1be17eefb07
- terraform import module.vpc.aws_subnet.subnet1_private subnet-07739820c103d380e
- terraform import module.vpc.aws_subnet.subnet2_private subnet-00e71b64221d2d249
- terraform import module.vpc.aws_subnet.subnet1_public subnet-05ba402774390b11a
- terraform import module.vpc.aws_subnet.subnet2_public subnet-0c7beb10ec44a28ee

- terraform import module.s3.aws_s3_bucket.bucket1 generic-lead-pro-serverlessdeploymentbucket-47dnqqul1lmm
- terraform import module.s3.aws_s3_bucket.bucket2 generic-lead-test-serverlessdeploymentbucket-tp939xrbhf1q
- terraform import module.s3.aws_s3_bucket.bucket3 generic-leads-webapp
- terraform import module.s3.aws_s3_bucket.bucket4 stackset-stacksetcloudtrailwitchcloud-trailbucket-12gxgeri7ad3g

- terraform import module.ec2.aws_instance.my-instance i-07472bda5ddd92f95

- **Successfully Imported the resources that mentioned above:**

Import successful!

The resources that were imported are shown above. These resources are now in your Terraform state and will henceforth be managed by Terraform.

```
PS C:\Users\pc\Desktop\Konecta Internship\Hands-on\Task> terraform plan
module.ec2.aws_instance.my-instance: Refreshing state... [id=i-07472bda5ddd92f95]
module.s3.aws_s3_bucket.bucket4: Refreshing state... [id=stackset-stacksetcloudtrailwitchcloud-trailbucket-12gxgeri7ad3g]
module.s3.aws_s3_bucket.bucket1: Refreshing state... [id=generic-lead-pro-serverlessdeploymentbucket-47dnqqul1lmm]
module.s3.aws_s3_bucket.bucket3: Refreshing state... [id=generic-leads-webapp]
module.vpc.aws_vpc.main: Refreshing state... [id=vpc-0d96df1be17eefb07]
module.s3.aws_s3_bucket.bucket2: Refreshing state... [id=generic-lead-test-serverlessdeploymentbucket-tp939xrbhf1q]
module.vpc.aws_subnet.subnet1_private: Refreshing state... [id=subnet-07739820c103d380e]
module.vpc.aws_subnet.subnet2_public: Refreshing state... [id=subnet-0c7beb10ec44a28ee]
module.vpc.aws_subnet.subnet1_public: Refreshing state... [id=subnet-05ba402774390b11a]
module.vpc.aws_subnet.subnet2_private: Refreshing state... [id=subnet-00e71b64221d2d249]

No changes. Your infrastructure matches the configuration.

Terraform has compared your real infrastructure against your configuration and found no differences, so no changes are needed.
PS C:\Users\pc\Desktop\Konecta Internship\Hands-on\Task>
```