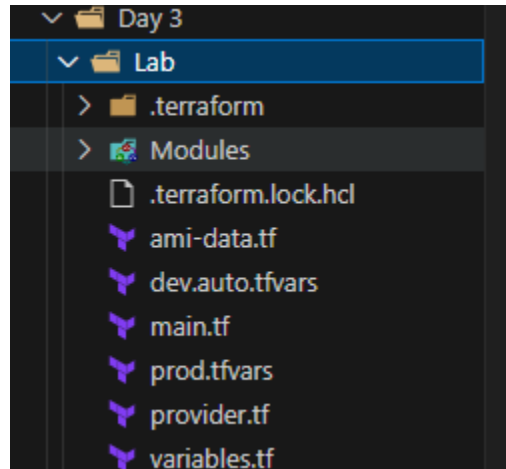


- 1-separate network resources into network module
- 2-upload infrastructure code on github project
- 3-verify your email in ses service
- 4-create lambda function to send email
- 5-create s3 event notification to detect changes in state file and send the email



```

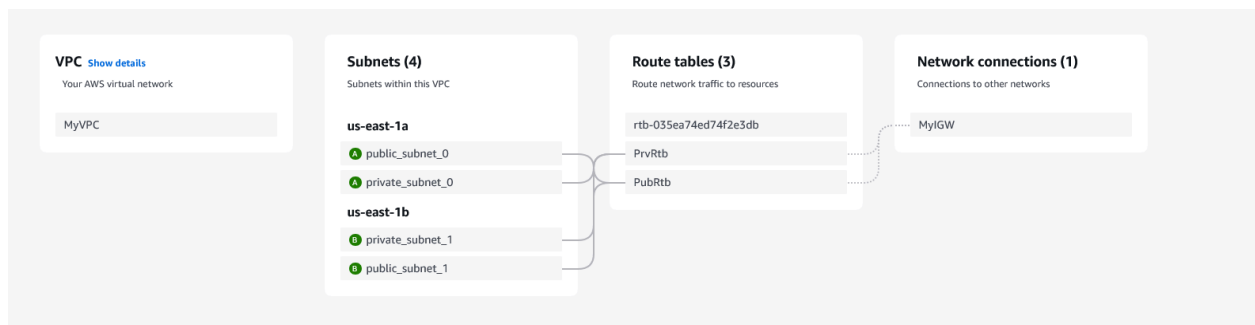
module "Network" {
    source          = "./Modules/Network"
    vpc_cidr        = var.vpc_cidr
    pub_subnet_cidr = var.pub_subnet_cidr
    priv_subnet_cidr = var.priv_subnet_cidr
    Pub_subnet_Count = var.Pub_subnet_Count
    Priv_subnet_Count = var.Priv_subnet_Count
    Pub_Rtb_Cidr     = var.Pub_Rtb_Cidr
    Priv_Rtb_Cidr    = var.Priv_Rtb_Cidr
    subnets         = var.subnets
}

module "Compute" {
    source          = "./Modules/Compute"
    instance_type   = var.instance_type
    Subnets        = module.Network.Subnets_list
    ami_id          = data.aws_ami.ubuntu.id
    Allow_SSH       = module.Network.SecUurity_Group_ID_Allow_SSH
    APP_SG          = module.Network.SecUurity_Group_ID_APP_SG
    ssh_key_name    = var.ssh_key_name
    ssh_key_bits    = var.ssh_key_bits
    ssh_algorithm   = var.ssh_algorithm
    local_file_name = var.local_file_name
    file_permission = var.file_permission
    instances       = var.instances
}

module "Storage" {
    source      = "./Modules/Storage"
    DBPass     = var.DBPass
    Subnets   = module.Network.Subnets_list
    SG_DB      = module.Network.SecUurity_Group_ID_DB
    redis_SG   = module.Network.SecUurity_Group_ID_Redis
}

module "Email" {
    source = "./Modules/Email"
    email  = var.email
}

```



send-email-lambda

▼ Function overview Info

Diagram | Template

send-email-lambda

Layers (0)

S3

+ Add trigger

+ Add destination

Code | Test | Monitor | **Configuration** | Aliases | Versions

General configuration

Triggers

Permissions

Destinations

Function URL

Triggers (1) Info

☐ Trigger

S3: tfstatebktseifhendawiyiti

arn:aws:s3:::tfstatebktseifhendawiyiti

► Details

Identities (1) Info

Last updated Just now

Check for recommendations

Send test email

Delete

Create identity

< 1 >

⚙

<input type="checkbox"/> Identity	▼ Identity type	▼ Identity status
<input type="checkbox"/> seifhendawy1@gmail.com	Email address	⚙ Verification pending

Identities (1) Info

Last updated Just now

Check for recommendations

Send test email

< 1 >

⚙

<input type="checkbox"/> Identity	▼ Identity type	▼ Identity status
<input type="checkbox"/> seifhendawy1@gmail.com	Email address	✔ Verified

Unread

me

Infrastructure Change Notification - A change has occurred in your infrastructure. Please review the changes made and verify if everything is functioning as expected.

me

Infrastructure Change Notification - A change has occurred in your infrastructure. Please review the changes made and verify if everything is functioning as expected.

me

Infrastructure Change Notification - A change has occurred in your infrastructure. Please review the changes made and verify if everything is functioning as expected.

Terraform will perform the following actions:

```
# module.Network.aws_vpc.MyVPC2 will be destroyed
# (because aws_vpc.MyVPC2 is not in configuration)
- resource "aws_vpc" "MyVPC2" {
  - arn                    = "arn:aws:ec2:us-east-1:741448929900:vpc/vpc-0a6cbde28643fe482" -> null
  - assign_generated_ipv6_cidr_block = false -> null
  - cidr_block              = "10.2.0.0/16" -> null
  - default_network_acl_id   = "acl-07aee43e833ddfa64" -> null
  - default_route_table_id   = "rtb-0664c04b6b6f6ac840" -> null
  - default_security_group_id = "sg-029fe3b72fe360645" -> null
  - dhcp_options_id         = "dopt-0fbba35b1f6d2e349" -> null
  - enable_dns_hostnames     = false -> null
  - enable_dns_support       = true -> null
  - enable_network_address_usage_metrics = false -> null
  - id                      = "vpc-0a6cbde28643fe482" -> null
  - instance_tenancy         = "default" -> null
  - ipv6_netmask_length      = 0 -> null
  - main_route_table_id      = "rtb-0664c04b6b6f6ac840" -> null
  - owner_id                 = "741448929900" -> null
  - tags                    = {
    - "Name" = "MyVPC2"
  } -> null
  - tags_all = {
    - "Name" = "MyVPC2"
  } -> null
}
# (4 unchanged attributes hidden)

Plan: 0 to add, 0 to change, 1 to destroy.
module.Network.aws_vpc.MyVPC2: Destroying... [id=vpc-0a6cbde28643fe482]
module.Network.aws_vpc.MyVPC2: Destruction complete after 1s

Apply complete! Resources: 0 added, 0 changed, 1 destroyed.
```

D:\Education\ITI\9M\Cloud Platform Development ITI\Week 28\Terraform\Day 3\Lab terraform destroy --auto-approve

Starred

Snoozed

Sent

Drafts

More

Labels

[imap]/Drafts

me

Infrastructure Change Notificati...

3:09 PM

Everything else

1-25 of 18,838

me

Infrastructure Change Notification -

3:09 PM

me

Infrastructure Change Notification -

3:08 PM

me

Infrastructure Change Notification -

3:08 PM

me

Infrastructure Change Notification -

2:59 PM

me

Infrastructure Change Notification -

2:59 PM

me

Infrastructure Change Notification -

2:59 PM

Google

Security alert - A new sign-in on ...

2:47 PM

Amazon Web Services ?

Amazon Web Services - Email Add...

2:36 PM

Glassdoor Community

How far is your gym from your pla...

12:19 PM

LinkedIn Job Alerts

Self: 11 new jobs - VOIS Platform S...

10:38 AM

Team Unstop

Apply to ONGC, BHEL, IOCL & 40+...

9:43 AM

LinkedIn Job Alerts

"devops engineer": DevOps Playgr...

8:37 AM

Team Unstop

Job at Lambda Test! - View details...

8:37 AM

LinkedIn Job Alerts ?

"devops engineer": FlairsTech - Se...

6:37 AM

LinkedIn Job Alerts

30+ new jobs in Egypt - View jobs L...

4:37 AM

LinkedIn Job Alerts

"devops engineer": Neuriva.AI - Az...

12:37 AM

Infrastructure Change Notification

Inbox x

seifhendawy1@gmail.com

via amazons...

3:09 PM (0 minutes ago)

to me

Be careful with this message.

This may be a spoofed message. The message claims to have been sent from your account, but Gmail couldn't verify the actual source. Avoid clicking links or replying with sensitive information, unless you are sure you actually sent this message. (No need to reset your password, the real sender does not actually have access to your account!)

Report spam

Looks safe

A change has occurred in your infrastructure. Please review the changes made and verify if everything is functioning as expected.

Reply

Forward