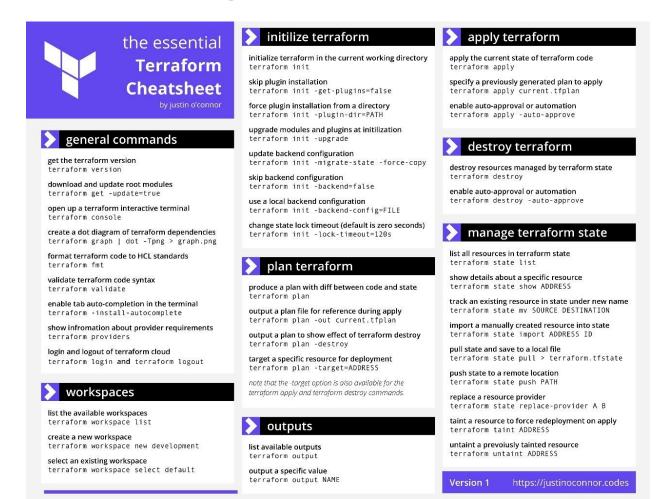
## day 5 terraform

## **Terraform Configuration**



```
terraform { required_providers {
  aws = {      source =
  "hashicorp/aws"      version =
  "5.92.0"
    }
}
```

```
} provider "aws" {
#Configuration Options
}

Terraform Version: terraform {
required_providers { aws = {
source = "hashicorp/aws"
   version = "??? 5.0"
   }
}

#Configure the AWS Provider
provider "aws" { region = "useast-1" }
```

## **Create a VPC**

```
resource "aws_vpc" "example" { cidr_block = "10.0.0.0/16" } region = "us-east-1" resource "aws_vpc" "myvpc" { cidr_block = "10.0.0.0/16" tags = { Name = "demovpc" } resource "aws_subnet" "pubsub" { vpc_id = aws_vpc.myvpc.id cidr_block = "10.0.1.0/24" availability_zone = "us-east-1a" tags = { Name = "sn1" } }
```

```
Internet Gateway resource
"aws_internet_gateway" "tfigw" { vpc_id =
aws_vpc.myvpc.id
tags = {
        Name =
"tfigw"
}
} resource "aws_route_table" "tfpubrt" {
vpc_id = aws_vpc.myvpc.id route {
cidr_block = "0.0.0.0/0"
  gateway_id = aws_internet_gateway.tfigw.id
}
tags = {
  Name = "tfpublicroute"
}
} resource "aws_route_table_association" "pubsn1" {
subnet_id
            = aws_subnet.pubsub.id route_table_id =
aws route table.tfpubrt.id
resource "aws_route_table_association" "pubsn2" {
subnet_id = aws_subnet.pub_sub.id route_table_id =
aws_route_table.tfpubrt.id
resource "aws eip" "tfeip" { domain = "vpc"
} resource "aws_nat_gateway" "tfnat" {
allocation_id = aws_eip.tfeip.id subnet_id
= aws_subnet.pub_sub.id
tags = { Name = "gw
NAT"
}
} resource "aws_route_table" "tfprirt" {
vpc_id = aws_vpc.myvpc.id route {
cidr_block = "0.0.0.0/0"
  gateway_id = aws_nat_gateway.tfnat.id
}
```

```
tags = {
  Name = "tfprivateroute"
}
} resource "aws security group" "allow tfsg" { name
= "allow tfsg" description = "Allow TLS inbound
traffic" vpc_id
                    = aws_vpc.myvpc.id ingress {
description = "HTTPS" from port
                                     2 443 to port

② 443 protocol

                        = "tcp" cidr blocks
["0.0.0.0/0"]
} ingress { description
"HTTP " from port
                      280
            2 80 protocol
to port
= "tcp" cidr blocks
["0.0.0.0/0"]
} ingress { description = "SSH"
from port
              22 to port
                               ?
22 protocol
               = "tcp"
cidr_blocks
             = ["0.0.0.0/0"]
} egress { from port
                       ? 0
to port
            ② 0 protocol
"21" cidr_blocks = ["0.0.0.0/0"]
} tags = {
Name = "TfsecurityGroup"
}} resource "aws instance" "pub ins" { ami
                                                       = "ami-
Ofc5d935ebf8bc3bc" instance type
                                          = "t2.micro" subnet id
= aws subnet.pub sub.id vpc security group ids
[aws security group.allow tfsg.id]
                     = "David"
key_name
associate public ip address = "true" }
#terraform init
#terraform validate
#terraform plan
#terraform apply
#terraform destroy
```