```
provider "aws" {
    region ="us-east-1"
    access key="AKIAZF20NWCFVYQ7G6SX"
    secret_acces_key="vs59FuPy0BIRQf233AuvutGxeRq8Fgr3waLWg8vj"
resource " aws_instance" "my-first-server" {
   ami ="ami-08962a4068733a2b6"
   instance-type ="t2.micro"
  tags={
     name ="karthik"
resoure "aws_vpc" "first-vpc"{
 cidr block ="10.0.0.0/16"
  tags = {
  name ="test"
resource "aws_subnet" "subnet-1"{
 vpc_id = aws_vpc.first-vpc.vpc_id
 cidr_block = 10.0.0.1.0/24
 tags = {
    name ="test1-subnet"
resource"aws_security_group""allow-web"{
 name ="allow-web-traffic"
  description = "Allow-web inbound traffic"
  vpc-id =aws_vpc.first-vpc.vpc_id
resource"aws_db_parimeter_group" "default"{
  name ="mariadb"
 family ="mariadb10.2"
  parameter{
    name ="max_allowed_packet"
    volume="16777216"
ingress{
```

```
description = "https"
  from_port
            = 443
  to_port = 443
 protocal ="tcp"
  cidr_blocks =["0.0.0.0/0"]
ingress{
 description = "http"
 from_port = 80
 to_port = 80
 protocal ="tcp"
  cidr_blocks =["0.0.0.0/0"]
ingress{
  description = "http"
             = 22
 from_port
 to_port = 22
 protocal ="tcp"
 cidr_blocks =["0.0.0.0/0"]
ingress{
 description = "mariabd"
 from_port = 3306
 to_port = 3306
 protocal ="tcp"
 cidr_blocks =["0.0.0.0/0"]
egress{
 from_port = 0
 to_port = 0
 protocol = "-1"
 cidr_block =["0.0.0.0/0"]
resource "aws_s3_bucket" "bucket" {
  bucket = "mybucket"
  acl = "private"
 tags = {
   Name = "My bucket"
   environment= "task"
locals {
 s3_origin_id = "myS3Origin"
```

```
resource "aws_cloudfront_distribution" "s3_distribution" {
 origin {
   domain name = aws s3 bucket.b.bucket regional domain name
   origin_id = local.s3_origin_id
   s3_origin_config {
     origin_access_identity = "origin-access-identity/cloudfront/myS30rigin"
   }
 enabled
                     = true
 is_ipv6_enabled = true
comment = "this is a interview test"
 default_root_object = "index.html"
 logging config {
   include cookies = false
             = "mybucket.s3.amazonaws.com"
               = "myprefix"
   prefix
 aliases = ["mysite.example.com", "yoursite.example.com"]
 default_cache_behavior {
   allowed methods = ["DELETE", "GET", "HEAD", "OPTIONS", "PATCH", "POST", "
PUT"1
   cached_methods = ["GET", "HEAD"]
   target_origin_id = local.s3_origin_id
   forwarded values {
     query_string = false
     cookies {
       forward = "none"
   viewer_protocol_policy = "allow-all"
   min ttl
                         = 0
   default_ttl
                         = 3600
   max_ttl
                         = 86400
 # Cache behavior with precedence 0
 ordered cache behavior {
   path pattern = "/content/immutable/*"
   allowed_methods = ["GET", "HEAD", "OPTIONS"]
   cached methods = ["GET", "HEAD", "OPTIONS"]
```

```
target_origin_id = local.s3_origin_id
 forwarded values {
   query_string = false
   headers = ["Origin"]
   cookies {
     forward = "none"
 min_ttl
                       = 0
 min_ttl
default_ttl
                      = 86400
                      = 31536000
 max_ttl
 compress
 viewer protocol policy = "redirect-to-https"
# Cache behavior with precedence 1
ordered_cache_behavior {
 path_pattern = "/content/*"
 allowed_methods = ["GET", "HEAD", "OPTIONS"]
 cached_methods = ["GET", "HEAD"]
 target_origin_id = local.s3_origin_id
 forwarded_values {
   query_string = false
   cookies {
     forward = "none"
 min_ttl
                       = 0
 default_ttl
                      = 3600
 max_ttl
                      = 86400
 compress
                      = true
 viewer_protocol_policy = "redirect-to-https"
price_class = "PriceClass_200"
restrictions {
 geo_restriction {
   restriction_type = "whitelist"
   locations = ["US", "CA", "GB", "DE"]
```

```
tags = {
    Environment = "production"
}

viewer_certificate {
    cloudfront_default_certificate = true
}
}
```