

main.tf

```
provider "aws" {  
    region = var.aws_region  
}
```

Recurso da instância EC2

```
resource "aws_instance" "ec2_instance" {  
    ami      = aplicação  
    instance_type = var.instance_type  
    tags = {  
        Name = "sciserviços"  
    }  
}
```

```
resource "aws_security_group" "instance_security_group" {  
    name      = "instance-security-group"  
    description = "grupo de acesso a porta 80"
```

```
    ingress {  
        from_port = 80  
        to_port   = 80  
        protocol  = "tcp"  
        cidr_blocks = ["0.0.0.0/0"]  
    }
```

```
    egress {
```

```
from_port = 0
to_port   = 0
protocol  = "-1"
cidr_blocks = ["0.0.0.0/0"]
}
}
```

Recurso dos containers

```
resource "null_resource" "docker_deploy" {
  depends_on = [aws_instance.ec2_instance]

  provisioner "local-exec" {
    command = <<EOF

    ssh -o StrictHostKeyChecking=no ec2-
user@${aws_instance.ec2_instance.public_ip} 'docker run -d -p 80:80 your-php-
app'

    EOF
  }
}
```

```
resource "aws_lb" "load_balancer" {
  name          = "Load-Balancer"
  internal      = false
  load_balancer_type = "application"
  security_groups = [aws_security_group.instance_security_group.id]
  subnets      = var.subnets

  tags = {
```

```
    Name = "Load-Balancer SCI"
  }
}
```

```
resource "aws_lb_target_group" "target_group" {
  name     = "target-loadbalance"
  port     = 80
  protocol = "HTTP"
  vpc_id   = var.vpc_id
```

```
  health_check {
    path          = "/"
    protocol      = "HTTP"
    matcher       = "200"
    timeout       = 5
    interval      = 30
    healthy_threshold = 3
    unhealthy_threshold = 5
  }
}
```

```
tags = {
  Name = "target-loadbalance"
}
}
```

```
resource "aws_lb_listener" "http_listener" {
  load_balancer_arn = aws_lb.load_balancer.arn
```

```
port      = 80
protocol  = "HTTP"
```

```
default_action {
  type      = "forward"
  target_group_arn = aws_lb_target_group.target_group.arn
}
}
```

```
resource "aws_ecs_cluster" "ecs_cluster" {
  name = "Clustersci"
}
```

```
resource "aws_ecs_task_definition" "task_definition" {
  family      = "task-sci"
  container_definitions = file("${path.module}/task_definition.json")
  execution_role_arn = "default"
  network_mode      = "awsvpc"
  requires_compatibilities = ["EC2"]
}
```

```
tags = {
  Name = "task-sci"
}
}
```

```
resource "aws_ecs_service" "ecs_service" {
```

```
name      = "serviçosdegerenciamento"
cluster   = aws_ecs_cluster.ecs_cluster.id
task_definition = aws_ecs_task_definition.task_definition.arn
desired_count = 1
launch_type = "EC2"

network_configuration {
  subnets    = var.subnets
  security_groups = [aws_security_group.instance_security_group.id]
  assign_public_ip = true
}

load_balancer {
  target_group_arn = aws_lb_target_group.target_group.arn
  container_name   = "containerphp"
  container_port   = 80
}

tags = {
  Name = "serviçosdegerenciamento"
}
}
```

#####

variables.tf

```
variable "aws_region" {  
    default = "us-east-1"  
}
```

```
variable "ami_id" {  
    description =  
    default     =  
}
```

```
variable "instance_type" {  
    default = "t2.micro"  
}
```

```
variable "vpc_id" {  
    description =  
    default     =  
}
```

```
variable "subnets" {  
    description =  
    type        = list(string)  
    default     = ["subnet-123", "subnet-456"] # Substitua pelos IDs das subnets  
}
```

```
#####
```

```
outputs.tf
```

```
output "ec2_instance_public_ip" {
```

```
    value = aws_instance.ec2_instance.public_ip
  }
```

```
output "load_balancer_dns" {
  value = aws_lb.load_balancer.dns_sci
}
```

```
#####
```

```
task_definition.json
```

```
{
  "family": "sci",
  "containerDefinitions": [
    {
      "name": "meus_containers",
      "image": "servidor-php",
      "portMappings": [
        {
          "containerPort": 80,
          "hostPort": 80,
          "protocol": "tcp"
        }
      ],
      "essential": true,
      "memory": 512,
      "cpu": 256
    }
  ]
}
```

}

}