```
resource "aws_iam_role" "lambda_exec_role" {
 name = "lambda_execution_role"
 assume_role_policy = jsonencode({
  Version = "2012-10-17"
  Statement = [
   {
     Action = "sts:AssumeRole"
     Principal = {
      Service = "lambda.amazonaws.com"
    }
     Effect = "Allow"
     Sid = ""
   },
  ]
 })
}
resource "aws_iam_role" "ec2_s3_access_role" {
 name = "ec2_s3_access_role"
 assume_role_policy = jsonencode({
  Version = "2012-10-17",
  Statement = [
   {
    Effect = "Allow",
```

```
Principal = {
      Service = "ec2.amazonaws.com",
    },
     Action = "sts:AssumeRole",
   },
  ],
 })
}
resource "aws_iam_policy" "ec2_s3_access" {
           = "ec2_s3_access_policy"
 name
 description = "Allow EC2 instances to access the S3 bucket"
 policy = jsonencode({
  Version = "2012-10-17",
  Statement = [
   {
    Action = [
      "s3:GetObject",
      "s3:ListBucket",
         "s3:PutObject" # Include PutObject if you need write access, for example, to upload the
kubeconfig file.
    ],
     Resource = [
      "arn:aws:s3:::swarmskube",
      "arn:aws:s3:::swarmskube/*"
```

```
],
    Effect = "Allow",
   },
  ],
 })
}
resource "aws_iam_instance_profile" "ec2_instance_profile" {
 name = "ec2_instance_profile"
 role = aws_iam_role.ec2_s3_access_role.name
}
resource "aws_iam_policy_attachment" "ec2_s3_access_attachment" {
          = "ec2_s3_access_attachment" # Correct argument for specifying the attachment name
 name
 policy_arn = aws_iam_policy.ec2_s3_access.arn
          = [aws_iam_role.ec2_s3_access_role.name]
 roles
}
```