Terraform S3 with IAM Admin Access - Code Explanation

Terraform Script with Line-by-Line Explanation

```
resource "aws_s3_bucket" "my_bucket1" { # Creates an S3 bucket named 'ansible.co.in'
 bucket = "ansible.co.in"
                                     # Unique bucket name
 tags = {
   Name = "pract"
                                    # Adds a tag to the bucket
 }
resource "aws_s3_object" "terraform_state" {  # Uploads a file to the S3 bucket
 bucket = aws_s3_bucket.my_bucket1.id
                                         # Reference to the S3 bucket
 key = "terraform.tfstate.backup"
                                        # The object name (key) in S3
  source = "C:/Users/Acer/Desktop/terraform/s3bucket/terraform.tfstate.backup" # Local file to
upload
 acl = "private"
                                          # Access control list (private access)
}
resource "aws_s3_object" "cover_letter" {
 bucket = aws_s3_bucket.my_bucket1.id
 key = "coverletter.txt"
 source = "C:/Users/Acer/Desktop/terraform/s3bucket/covelatter.txt"
     = "private"
resource "aws_iam_policy" "s3_admin_policy" {  # Defines a custom IAM policy
 name
           = "S3BucketAdminPolicy"
                                           # Name of the policy
 description = "Full admin access to the ansible.co.in bucket"
 policy = jsonencode({
                                           # Encodes JSON policy
   Version = "2012-10-17",
                                           # IAM policy language version
   Statement = [{
     Effect = "Allow",
                                           # Allows the action
     Action = "s3:*",
                                           # Grants all S3 permissions
     Resource = [
      aws_s3_bucket.my_bucket1.arn,
                                          # Bucket ARN
       "${aws_s3_bucket.my_bucket1.arn}/*"
                                          # All objects within the bucket
     1
   } ]
 })
name = "admin-user"
resource "aws_iam_user_policy_attachment" "admin_attach" { # Attaches the policy to the user
          = aws_iam_user.admin_user.name  # User name
 policy_arn = aws_iam_policy.s3_admin_policy.arn # ARN of the policy created
```

}