Task 5: Debugging and Fixing Terraform Issues

Given a misconfigured Terraform file, identify and fix the following errors:

- **Invalid provider configuration:**
  We need to pay attention to the version of the provider - there may be changes from version to version and therefore the configuration is invalid. We must determine the version when importing the library.
  Sometimes it is necessary to perform terraform init before apply, it is possible that this can solve the problem.
  Pay attention to the syntax of the provider, in AWS for example we must also add the region we want to work on.
  Also, note that there are no spelling mistakes that can cause configuration problems.

- **Incorrect security group rules**
  It is important to note that "ingress" and "egress" are written correctly, as well as all the data required for them to work (such as from port, to port, protocol, cidr_blocks).
  and the arguments with reasonable values as needed.
  Make sure that the ingress rules you have given to the group will be suitable rules for the need and required.
  In addition, make sure that there are brackets in the required places and that after opening brackets there is a closing. Make sure there are no spelling mistakes.

- **Missing IAM permissions for Terraform to create resources**
  This means that the user through whom the terraform works does not have permissions to create resources. We must make sure that we have the appropriate permissions and to avoid missing IAM permissions for creating resources.
  If for example terraform has to create S3, the user must have permissions to create S3.
  In the same way, if you don't want the user to create any resource, he won't have a policy to create it.
  If there are several profiles that are used, you need to make

sure that the correct profile is used (for example, one profile can create EC2 but another profile does not have permission). You can check your own policy using AWS cli get-policy command or through the AWS console under IAM-users and navigate to the attached policy.
You can also solve the problem by requesting access from the administrator who, if appropriate, will grant us access.