Terraform Task

We have created some initial terraform code to begin the process of deploying a basic web application.

As part of our selection process, we would like you to perform the steps below to demonstrate your knowledge of Infrastructure-as-Code good-practice:

1. Place the code for this task in a local git repository
2. Commit terraform changes to your local copy that:
    a. Fixes any outstanding Terraform errors
    b. Help decrease HCL code repetition
    c. Improves code collaboration
    d. Helps future developers
    e. Add a file named TODO.txt with any additional observations and further infrastructure/code recommendations for how this could be turned into a resilient, secure web application
3. Push your changes to a public repository of your choice.
4. Email the repository URL to a.j.jones@sheffield.ac.uk

Note

We are looking for general best practices and recommend spending no more than 2-3 hours on this task. Whilst we will not be executing any terraform code it should as a minimum pass a **terraform validate** command without error.

If you would normally use AI as part of your work then we are happy for you to do so, but we'd like to understand what tool(s) you used and what the benefit to you was. You'll have a chance to talk about how you found the task during the interview.