**Chosen folder structure**

My folder structure has good maintainability and reusability because it keeps the different component/infrastructure configurations separate in different modules. This helps to easily track the code and keep it clean (less spaghetti code).

I feel like having one infrastructure template (modules folder) with 3 different .tfvars files for dev, staging, prod makes it so much easier to work and manage the code and configurre without duplicating (or tripling) the code.

Scaling is also easy by just adding a new module folder. This will not affect the other modules and I can just add the new module in main.tf with the variables for all .tfvars files and that’s it.

This structure is good for implementing CI/CD workflows because I can simply set up workflows with the specific .tfvars files that I have inside modules for each specific environment.

**Challenges during development**

* Spent lots of time fixing security issues so my code would pass the tfsec workflow checks. Things like not having an open port \* but instead having an ip range that can access my network and adding a minimum TLS version to my storage account along with many other small things which took some time to fix/implement.
* Figuring out

**Potential improvements or optimizations**

* Maybe adding readme in each module to future proof the code base but at the same time I already commented the code
* If I want to make this just like a professional development environment, I can add extra protections for example nobody can push directly to the prod branch so everything is forced to go through the whole workflow process and similar things.