Matias Roje - Terraform exam

https://github.com/MatiasRoje/dst-terraform-exam.git

For this exam, I built the entire project independently without using external Terraform modules. This approach helped me deepen my understanding of Terraform by manually managing all outputs, variables, and dependencies. While challenging, the final product is fully functional.

Real-World Considerations

In practice, using Terraform registry modules is often preferred as they are well-tested and follow best practices. However, this exercise enhanced my grasp of Terraform's core concepts and the value of pre-built modules.

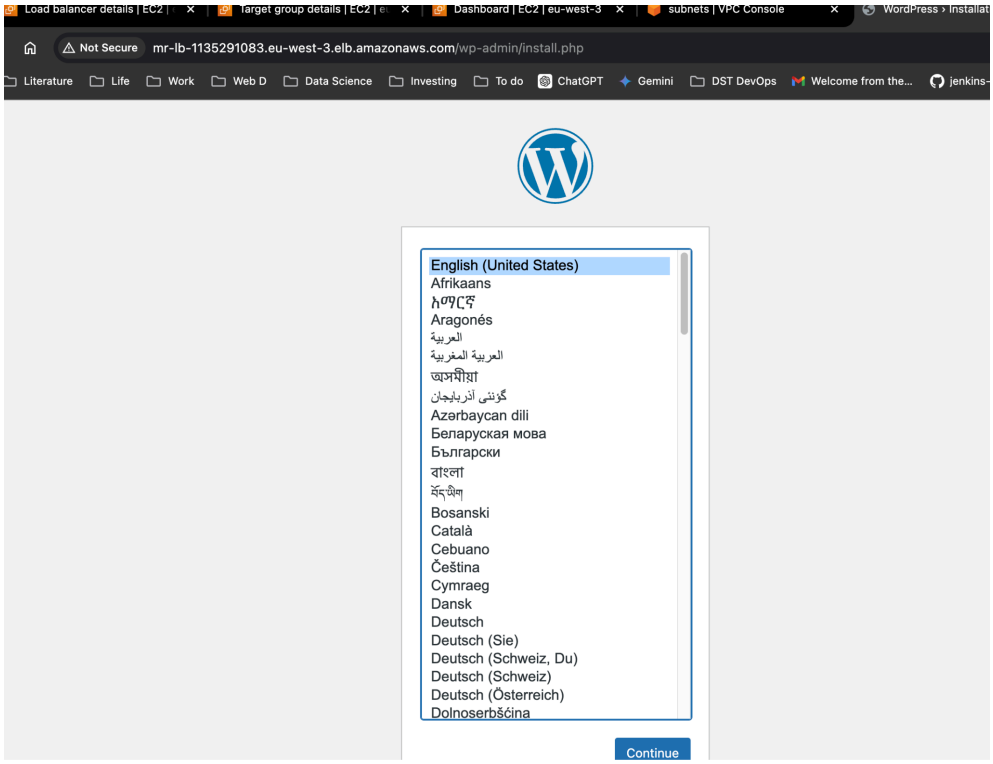
Implementation Details

- Database Password: Stored securely in a local `terraform.tfvars` file, added via the Terraform CLI during deployment.

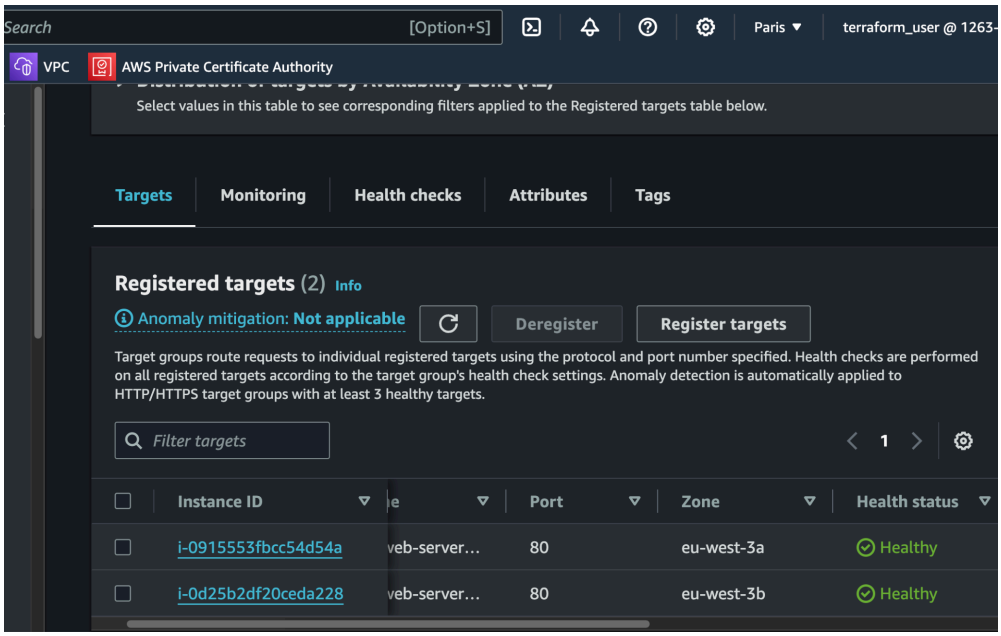
- Webserver Installation: The `install-wordpress.sh` script for Amazon Linux 2023 uses Terraform variables effectively and is working as intended.

Project Status

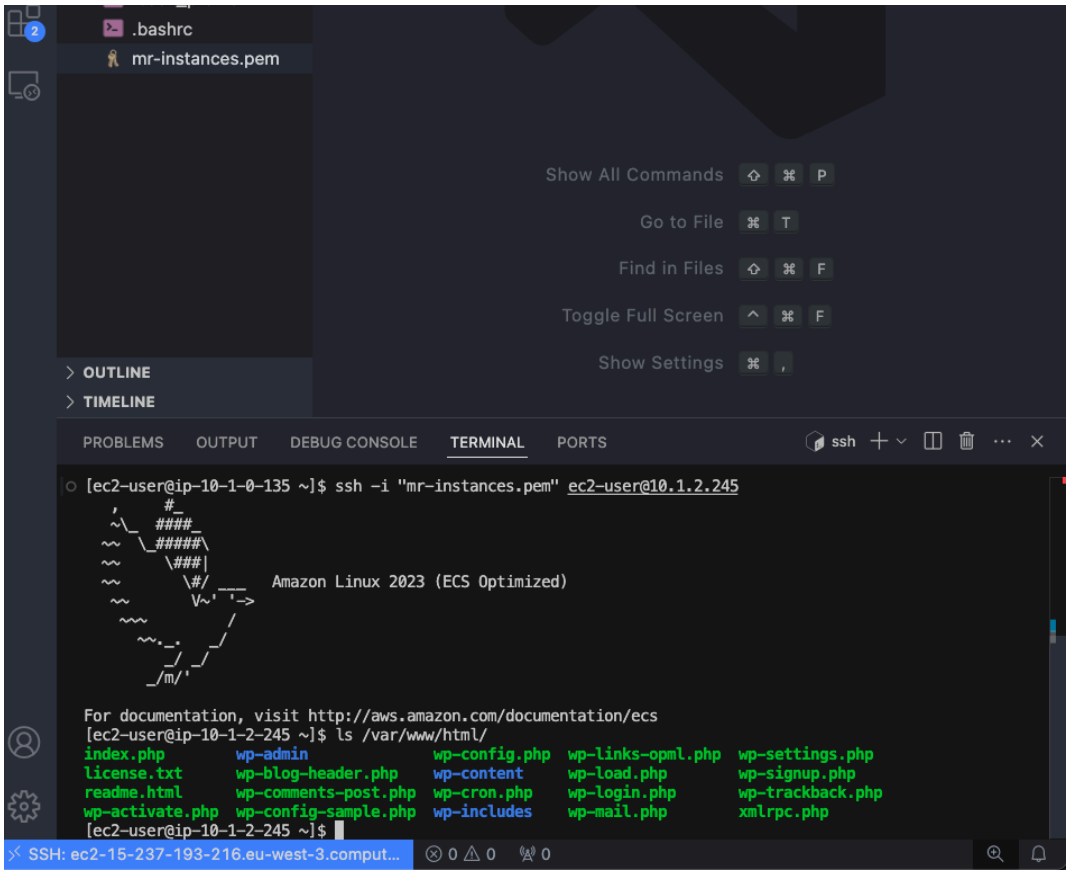
- Load Balancer: Accessible and operational.



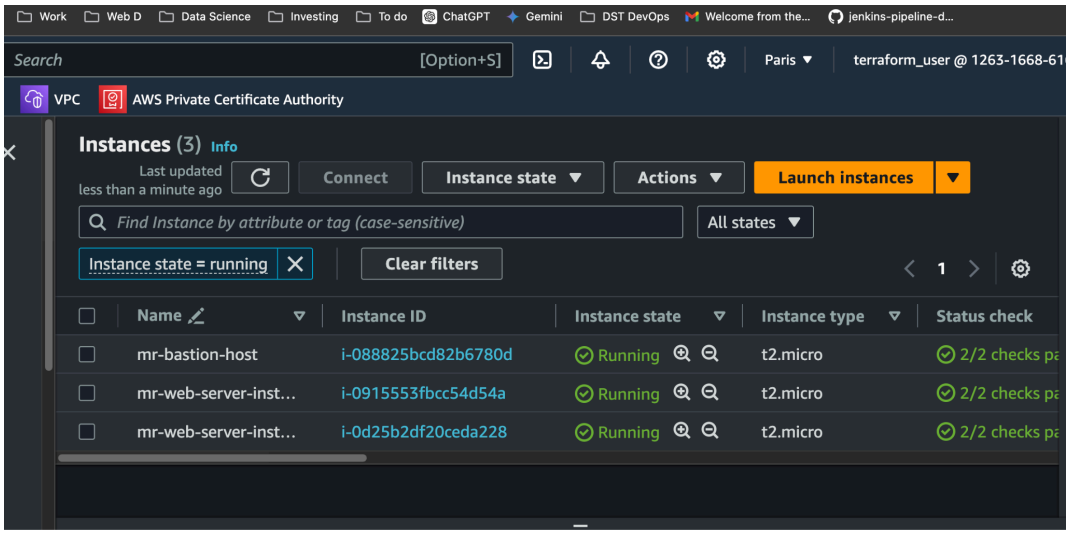
- Target Groups: Healthy, directing traffic to Auto Scaling Group instances.

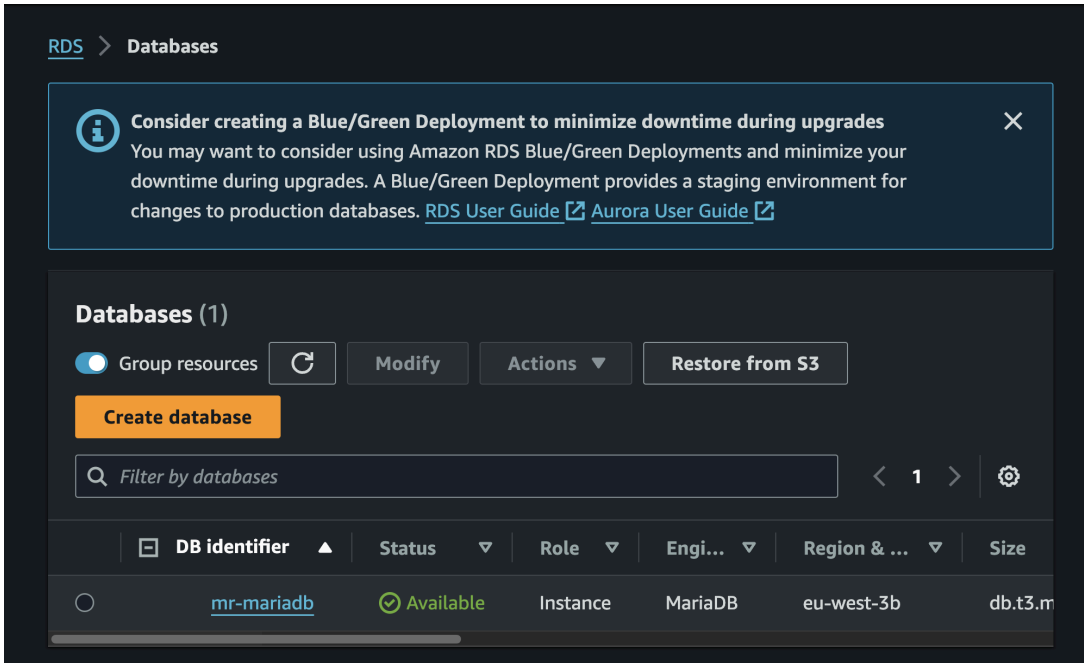


- Bastion Host: Successfully connects to private subnet EC2 instances where WordPress is running.



- Instances & Database: All components are running smoothly.





Conclusion

Thank you for reviewing my exam. This project was a valuable learning experience, and I'm confident the skills gained will be useful in real-world scenarios.