DevOps Home Assignment

Thank you for taking the time to complete this assignment. This assignment is designed to give us an idea of how you approach tasks. We ask you to solve it by yourself and keep things simple. Whenever assumptions are taken, we ask you to be as explicit as possible.

Task Description

Please create a PostgreSQL HA Cluster that is spun up using a single docker-compose command.

The deployment should have the following capabilities –

- PostgreSQL 13 and above
- No single point of failure for the cluster
- 3 PostgreSQL Nodes, 1 main instance in R\W mode, 2 secondary instances in Read-Only mode.
- Automatic recovery and fail-over on instance crash.
- pgAdmin that has 2 preconfigured connections, one to the R\W and one to the Read-Only, the connection should work even if a fail-over has occurred.

Please create a document outlining your planning approach that will help you solve the task.

Submission –

Please share your resulting files in a publicly shared repo that includes a readme file that explains how to execute your code.

Please include the planning document.

Good Luck!