DevOps Engineer Test Tasks

1. Setup containerised system using Docker

Setup the following containers:
1. Web frontend:
   a. PHP 7.0.33
   b. Xdebug
   c. Apache
2. MySQL
3. MongoDB

How to test the system
The Web frontend should run a simple PHP application that connects both to MySQL and MongoDB, reads dummy data from them and displays it.

Constraints
- The system should be able to be deployed and run on a Mac (12.2) and Windows computer
- All configurations should be injected and not hard-coded (for example MySQL DSN, etc.)
- There is no specification of the DB schema or the PHP application. You are free to do the minimal work required to demo the setup.
- It should be possible to build dev and prod version of the Web frontend container with PHP Xdebug turned on/off

Results
- Git repository with the Docker files
- Short instruction

2. Infrastructure Layout

Please provide a diagram of a cloud infrastructure based on AWS that is
- Highly available
- Self-recovering

Roles:
- Web frontend
- API backend

- RDBMS

Please feel free to design with any services or components you see fit. The result should be submitted as a PDF file or in draw.io.