Exercise-1337:

1. Team Snake is working on a new project that serves payment services globally. They have the following services to be deployed:
    a) Web server
    b) External API Service
    c) Internal API Service
    d) Payment Processor Integration Service
    e) Redis Cache
    f) Relational Database

Please provide a network architecture diagram, as well as suitable solutions that considers Security, High Availability / Reliability, Scalability, Performance and Observability.

2. You have been tasked to complete the following task:
    a) Setup a private Docker Registry, which has its storage on AWS S3 (https://docs.docker.com/registry/deploying/)
    b) Deploy *yeasy/simple-web* - a simple web application by using Docker container with the private Docker Registry. (https://hub.docker.com/r/yeasy/simple-web/)
    c) Setup a reverse-proxy using Nginx infront of one *yeasy/simple-web* container
    d) [Bonus] Setup a load balancer using Nginx with *yeasy/simple-web* as its web application

Please save your answers in the following format, and send it back to us.

-   Codes: Zip or provide a Github link
-   Screenshots of the Results
-   Setup Guide

Feel free to reply to us if you have any questions. Thank you.