PART 1

link to the lucidchart design:(I used Visual diagram https://online.visual-paradigm.com):

link to the packet tracer file:

PART 2

Elastic public IP address of the public-facing instance: 54.204.90.186

Private IP addresses of the private instance: 172.31.29.248
Private IP addresses of the public facing instance: 172.31.31.225

HTTPS web server:

Domain: https://networks.aluopensource.com

Details: Simple node.js web server running inside a docker container on port 5000, and a reverse proxy (<u>Traefik</u>) running inside another docker container handling SSL and forwarding

the traffic to the node.js server. Source code can be found here.

OpenVPN username: networks

OpenVPN password: Rw&a@ALU2021

OpenVPN client file:

https://raw.githubusercontent.com/paularah/networks/master/networks.ovpn

PART 3

Link to packet tracer file:

https://raw.githubusercontent.com/paularah/networks/master/arah_https_capture.pcapng

Link to nmap scan: