

## PART 1

**link to the lucidchart design:**(I used Visual diagram

<https://online.visual-paradigm.com/>):

[https://raw.githubusercontent.com/paularah/networks/master/paul\\_arah.vpd](https://raw.githubusercontent.com/paularah/networks/master/paul_arah.vpd)

**link to the packet tracer file:**

<https://raw.githubusercontent.com/paularah/networks/master/paularah.pkt>

## 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 ([Traefik](#)) 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/arrah\\_https\\_capture.pcapng](https://raw.githubusercontent.com/paularah/networks/master/arrah_https_capture.pcapng)

**Link to nmap scan:**

[https://raw.githubusercontent.com/paularah/networks/master/remote\\_server\\_https.txt](https://raw.githubusercontent.com/paularah/networks/master/remote_server_https.txt)