## Installing Docker Registry:

- 1. Install Docker from:
  - https://www.digitalocean.com/community/tutorials/how-to-install-and-use-docker-on-ubuntu-18-04
- 2. Install docker registry and configure port 443 and add HTTPS certificate to it:
  - a. Install Certbot using:
    - i. https://certbot.eff.org/lets-encrypt/ubuntubionic-other
  - b. Create a standalone certificate using:
    - i. sudo certbot certonly --standalone -d docker-registry.nonton.99array.com
  - c. This will save the cert files in directory: /etc/letsencrypt/live/docker-registry.nonton.99array.com
  - d. Change to this directory
  - e. Generate Private Key using: openssl pkey -in privkey.pem -out docker-registry.key
  - f. Generate Certificate using : openssl crl2pkcs7 -nocrl -certfile fullchain.pem | openssl pkcs7 -print\_certs -out docker-registry.cert
  - g. Move Key and Certificate to home directory of current user : mv docker-registry.\* /home/ubuntu/certs/
  - h. Change permissions to 777 of both files
  - i. Make directory:/home/ubuntu/auth
  - j. To generate http authentication username-password, use : docker run --entrypoint htpasswd registry:2 -Bbn docker-admin 3Zj7btENx9hb > auth/htpasswd
  - k. Stop and remove the temporary registry container:
    - i. sudo docker container stop registry
    - ii. sudo docker container rm registry
  - I. Start registry using
    - i. cd/home/ubuntu
    - ii. sudo su
  - m. Try logging in using
    - i. sudo docker login docker-registry.nonton.99array.com:5443
  - n. Login with username and password : docker-admin/3Zj7btENx9hb