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Private Registry - Harbor

https://goharbor.io/

Harbor (RBAC) , , .CNCF (Graduated) Harbor (), , Kubernetes Docker

Docker

Harbor docker

dnf config-manager --add-repo https://download.docker.com/linux/rhel/docker-ce.repo dnf install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin systemctl enable --now docker

harbor

https://goharbor.io/docs/2.12.0/install-config/

Harbor / . 가

https://goharbor.io/docs/2.12.0/install-config/download-installer/

wget
https://github.com/goharbor/harbor/releases/download/v2.12.2/harbor-offlineinstaller-v2.12.2.tgz

tar -xvf harbor-offline-installer-v2.12.2.tgz

SSL

SSL /

.insecure registry

SSL

```
# Root CA
openssl genrsa -out ca.key 4096
openssl reg -x509 -new -nodes -sha512 -days 3650 \
 -subj "/C=KR/ST=Seoul/L=Seoul/O=ATL/OU=Personal/CN=MyPersonal Root CA" \
 -key ca.key \
 -out ca.crt
#
openssl genrsa -out server.key 4096
# CSR
openssl req -sha512 -new \
    -subj "/C=KR/ST=Seoul/L=Seoul/0=ATL/0U=Personal/CN=Private Harbor
Server" \
    -key server.key \
    -out server.csr
# V3 Extension
cat > v3.ext <<-EOF
authorityKeyIdentifier=keyid,issuer
basicConstraints=CA:FALSE
keyUsage = digitalSignature, nonRepudiation, keyEncipherment,
dataEncipherment
extendedKeyUsage = serverAuth
subjectAltName = @alt_names
[alt names]
DNS.1=registry.local.domain
DNS.2=registry
IP.1=10.33.0.175
F0F
#
openssl x509 -req -sha512 -days 3650 \
    -extfile v3.ext \
    -CA ca.crt -CAkey ca.key -CAcreateserial \
    -in server.csr \
    -out server.crt
```

Docker

ca.crt, server.crt, server.key Harbor Docker

Harbor data
mkdir -p /data/cert
cp server.crt /data/cert/

https://atl.kr/dokuwiki/

```
cp server.key /data/cert/
# Docker
                         server.crt server.cert
openssl x509 -inform PEM -in server.crt -out server.cert
#
                 <yourdomain.com>
cp server.cert /etc/docker/certs.d/yourdomain.com/
cp server.key /etc/docker/certs.d/yourdomain.com/
```

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cp ca.crt /etc/docker/certs.d/yourdomain.com/

#

```
mkdir -p /etc/docker/certs.d/10.33.0.175/
cp server.cert /etc/docker/certs.d/10.33.0.175/
cp server.key /etc/docker/certs.d/10.33.0.175/
cp ca.crt /etc/docker/certs.d/10.33.0.175/
```

Harbor

	prepare
./prepare docker compose down -v docker compose up -d #	
Web	
harbor /	
/	
docker compose down -v	

docker docker compose up -d

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