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Private Registry - Harbor

<https://goharbor.io/>

Harbor (RBAC), CNCF (Graduated) 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-offline-
installer-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 req -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/O=ATL/OU=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
EOF

#
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/
```

```
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/
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 compose up -d
```

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