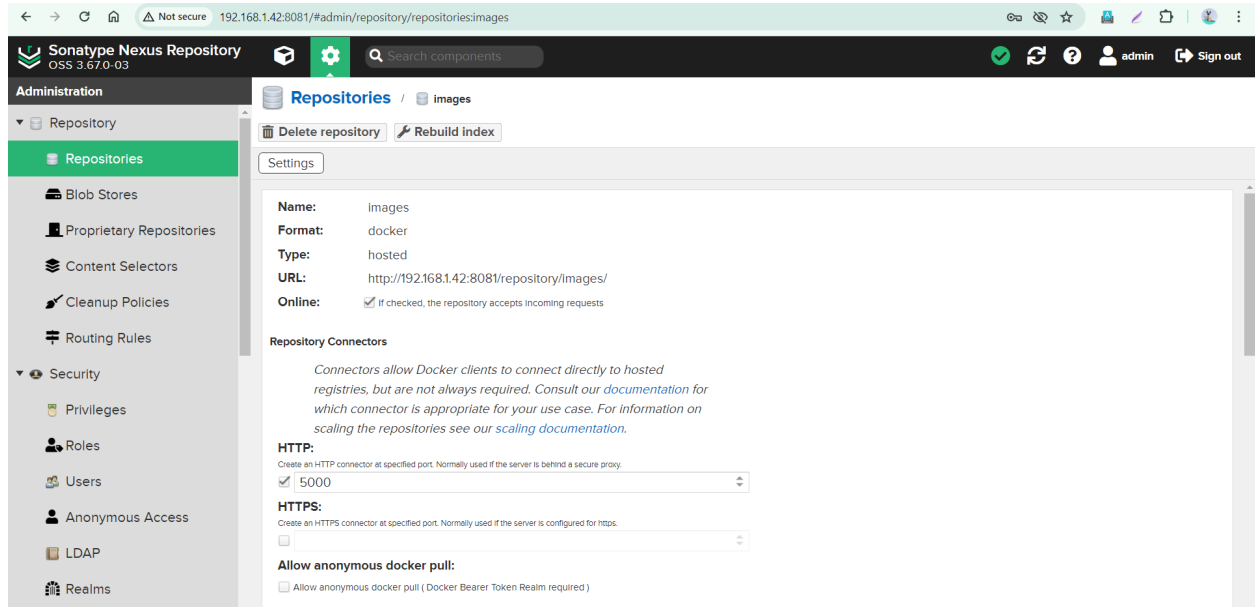


Nexus with Nginx

```
# podman run -itd --name nexus-new -p 8443:8443 -p 8081:8081 -p 5000:5000 -v /root/nexus/nexus-data:/nexus-data sonatype/nexus3
```



HTTPS:
Create an HTTPS connector at specified port. Normally used if the server is configured for https.

☐

Allow anonymous docker pull:
☐ Allow anonymous docker pull (Docker Bearer Token Realm required)

Docker Registry API Support

Enable Docker V1 API:
☒ Allow clients to use the V1 API to interact with this repository

Storage

Blob store:
default

Strict Content Type Validation:
☒ Validate that all content uploaded to this repository is of a MIME type appropriate for the repository format

Hosted

Deployment policy:
Controls if deployments of and updates to artifacts are allowed

Proprietary Components:

```
# yum install nginx -y
```

systemctl start nginx

systemctl enable nginx

```
[root@master-node certs.d]# systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: disabled)
   Active: active (running) since Sun 2024-04-14 21:43:19 IST; 2h 10min ago
     Process: 13372 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited, status=0/SUCCESS)
     Process: 13374 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=0/SUCCESS)
     Process: 13375 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCCESS)
    Main PID: 13376 (nginx)
      Tasks: 5 (limit: 27960)
     Memory: 7.6M
        CPU: 2.101s
    CGroup: /system.slice/nginx.service
            └─13376 "nginx: master process /usr/sbin/nginx"
              └─13377 "nginx: worker process"
                └─13378 "nginx: worker process"
                  └─13379 "nginx: worker process"
                    └─13380 "nginx: worker process"

Apr 14 21:43:19 master-node.example.com systemd[1]: Starting The nginx HTTP and reverse proxy server...
Apr 14 21:43:19 master-node.example.com nginx[13374]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Apr 14 21:43:19 master-node.example.com nginx[13374]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Apr 14 21:43:19 master-node.example.com systemd[1]: Started The nginx HTTP and reverse proxy server.
[root@master-node certs.d]#
```

[root@master-node certs.d]# cat /etc/nginx/nginx.conf

Add below lines.

```
server {
    listen 443 ssl;
    ssl_certificate /etc/ssl/nexus.crt;
    ssl_certificate_key /etc/ssl/nexus.key;
    server_name 192.168.1.42;
    location / {
        proxy_pass http://127.0.0.1:5000;
        proxy_set_header Host $http_host;
    }
}
```

```
server {
    listen 443 ssl;
    ssl_certificate /etc/ssl/nexus.crt;
    ssl_certificate_key /etc/ssl/nexus.key;
    server_name 192.168.1.42;
    location / {
        proxy_pass http://127.0.0.1:5000;
        proxy_set_header Host $http_host;
    }
}
# Settings for a TLS enabled server.
```

SSL Certificate

[root@master-node ssl]# openssl genpkey -algorithm RSA:2048 -out nexus.key

[root@master-node ssl]# cat ca.cnf

```
[req]
default_bits = 2048
prompt = no
default_md = sha256
distinguished_name = dn
req_extensions = SAN # Specify the SAN extension here
```

```
[dn]
C = in
ST = maharastra
L = navimumbai
O = kr
OU = it
emailAddress = admin@example.com
CN = example.com
```

```
[SAN]
subjectAltName = @alt_names
```

```
[alt_names]
DNS.1 = master-node
DNS.2 = master-node.example.com
```

```
[root@master-node ssl]# openssl req -new -key nexus.key -out nexus.csr -config ca.cnf
```

```
[root@master-node ssl]# openssl x509 -req -in nexus.csr -signkey nexus.key -out nexus.crt
-days 365 -extensions SAN -extfile ca.cnf
```

```
##### copy nexus.crt and nexux.key to /etc/ssl/
#####
```

```
[root@master-node ssl]# cp nexus.crt /etc/ssl/
[root@master-node ssl]# cp nexus.key /etc/ssl/
```

```
##### copy nexus.crt to
/etc/pki/ca-trust/source/anchors/#####
[root@master-node ssl]# cp nexus.crt /etc/pki/ca-trust/source/anchors/
```

```
##### copy nexus.crt to
/etc/containers/certs.d/master-node.example.com\:443/ #####
[root@master-node ssl]# mkdir /etc/containers/certs.d/master-node.example.com:443 # the file
will have to create named <hostname>:443
[root@master-node ssl]# cp nexus.crt /etc/containers/certs.d/master-node.example.com\:443/
```

Note: the host entry will add in master as well as all workers and nexus.crt need to put in /etc/containers/certs.d/master-node.example.com:443 on all workers

```
[root@master-node certs.d]# podman login master-node.example.com:443 -u admin -p nexus
Login Succeeded!
[root@master-node certs.d]#
```

Tag image

podman tag docker.io/library/nginx master-node.example.com:443/images/nginx

```
[root@master-node certs.d]# podman tag docker.io/library/nginx master-node.example.com:443/images/nginx
```

Push image

podman push master-node.example.com:443/images/nginx

Note: If you face error to push image due to size of image "too large", will be added in nginx.conf

client_max_body_size 50000M;

```
http {
    log_format main '$remote_addr - $remote_user [$time_local] "$request" '
        '$status $body_bytes_sent "$http_referer" '
        '"$http_user_agent" "$http_x_forwarded_for"';

    access_log /var/log/nginx/access.log main;

    sendfile        on;
    tcp_nopush      on;
    tcp_nodelay     on;
    keepalive_timeout 65;
    types_hash_max_size 4096;
    client_max_body_size 50000M;

    include /etc/nginx/mime.types;
    default_type application/octet-stream;

    # Load modular configuration files from the /etc/nginx/conf.d directory.
    # See http://nginx.org/en/docs/nginx_core_module.html#include
    # for more information.
    include /etc/nginx/conf.d/*.conf;

    server {
        listen      80;
        listen      [::]:80;
```

Pull image

podman pull master-node.example.com:443/images/nginx