

# Nginx Reverse Proxy for OpenStack Horizon

Berikut ini catatan deploy nginx sebagai reverse proxy untuk **OpenStack Dashboard** (horizon). Ceritanya punya 2 node openstack yang dideploy menggunakan **kolla-ansible**, sudah diset menggunakan TLS, namun ingin set loadbalancer di depan menggunakan nginx. Berikut kira-kira caranya.

Nah, pertama pada konfigurasi **kolla-ansible** tambahkan teks berikut pada `/etc/kolla/config/horizon/custom_local_settings`:

```
CSRF_TRUSTED_ORIGINS = ["http://langit.nacita.tld",  
"https://langit.nacita.tld"]
```

lalu deploy ulang OpenStack-nya:

```
kolla-ansible -i multinode deploy
```

Lalu, pada nginx-nya, gunakan konfigurasi virtualhost-nya `/etc/nginx/conf.d/vhost.conf` sebagai berikut kurang lebih:

```
upstream horizon {  
    server 10.11.11.106:443;  
    server 10.11.11.105:443;  
}  
  
map $http_x_forwarded_proto $the_scheme {  
    default $http_x_forwarded_proto;  
    "" $scheme;  
}  
  
map $http_x_forwarded_host $the_host {  
    default $http_x_forwarded_host;  
    "" $host;  
}  
  
map $http_upgrade $proxy_connection {  
    default upgrade;  
    "" close;  
}  
  
proxy_set_header Upgrade $http_upgrade;  
proxy_set_header Connection $proxy_connection;  
proxy_set_header X-Forwarded-Host $the_host;  
proxy_set_header X-Forwarded-Proto $the_scheme;  
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
proxy_set_header Origin http://$host;  
  
server {  
    server_name langit.nacita.tld;
```

```
#listen [::]:80 default_server;
server_tokens off;

location / {
    proxy_pass https://horizon/;
    proxy_ssl_verify off;
    #proxy_ssl_verify_depth 2;
    proxy_ssl_session_reuse on;
    #proxy_ssl_server_name on;
    proxy_http_version 1.1;
    #proxy_redirect off;
    proxy_set_header Host $host;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
}

listen 443 ssl; # managed by Certbot
ssl_certificate /etc/letsencrypt/live/langit.nacita.tld/fullchain.pem; #
managed by Certbot
ssl_certificate_key /etc/letsencrypt/live/langit.nacita.tld/privkey.pem;
# managed by Certbot
include /etc/letsencrypt/options-ssl-nginx.conf; # managed by Certbot
ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot
}

server {
    if ($host = langit.nacita.tld) {
        return 301 https://$host$request_uri;
    } # managed by Certbot

    listen 0.0.0.0:80;
    server_name langit.nacita.tld;
    return 404; # managed by Certbot
}
```

dan, tadaaa... jadi deh. Btw ini tshoot-nya seharian loh... hehehe.

## Referensi

- <https://docs.openstack.org/kolla-ansible/latest/reference/shared-services/horizon-guide.html>
- <https://docs.openstack.org/kolla-ansible/xena/admin/tls.html>
- <https://docs.openstack.org/kolla-ansible/xena/admin/advanced-configuration.html>

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