

# NGINX as Proxy to Tomcat

You have nginx at the front end and tomcat hosted internally at port **8080** and you would like to bring Tomcat to the front end accessible via **tomcat.sampledomain.com**.

In Tomcat's **server.xml**, modify to add **proxyName** and **proxyPort** to the **Connector** node.

## server.xml

```
<Connector port="8080" protocol="HTTP/1.1"
           connectionTimeout="20000"
           redirectPort="8443" proxyName="tomcat.sampledomain.com" proxyPort="80" />
```

In nginx's configuration, add this new site configurations.

## nginx site file

```
server {
    listen      80;
    server_name tomcat.sampledomain.com;
    root        /opt/tomcat/webapps/;
    underscores_in_headers on;

    location /jw/web/applog/ {
        proxy_pass http://localhost:8080/jw/web/applog/;
        proxy_set_header Host $http_host;
        proxy_set_header X-Forwarded-Host $host;
        proxy_set_header X-Forwarded-Server $host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
    }

    location / {
        proxy_pass http://localhost:8080/;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-NginX-Proxy true;
        proxy_set_header Host $http_host;
        proxy_set_header Upgrade $http_upgrade;
        proxy_redirect off;
    }
}
```

In addition to this, you may start to notice in Joget's log file that you are getting local IP address instead of client's real IP address. We will need to add this configuration into **server.xml** under the **host** node earlier.

```
<Valve className="org.apache.catalina.valves.RemoteIpValve"
        internalProxies="\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}"
        remoteIpHeader="x-forwarded-for"
        proxiesHeader="x-forwarded-by"
        protocolHeader="x-forwarded-proto" />
```

Here is the complete **host** node in **server.xml** now.

```
<Host name="localhost" appBase="webapps"
  unpackWARs="true" autoDeploy="true">

  <!-- SingleSignOn valve, share authentication between web applications
    Documentation at: /docs/config/valve.html -->
  <!--
  <Valve className="org.apache.catalina.authenticator.SingleSignOn" />
  -->

  <Valve className="org.apache.catalina.valves.RemoteIpValve"
    internalProxies="\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}"
    remoteIpHeader="x-forwarded-for"
    proxiesHeader="x-forwarded-by"
    protocolHeader="x-forwarded-proto" />

  <!-- Access log processes all example.
    Documentation at: /docs/config/valve.html
    Note: The pattern used is equivalent to using pattern="common" -->
  <Valve className="org.apache.catalina.valves.AccessLogValve" directory="logs"
    prefix="localhost_access_log" suffix=".txt"
    pattern="%h %l %u %t \"%r\" %s %b" />

</Host>
```

Credit: <https://qiita.com/tkprof/items/2ff334b27002c101d022>

Credit: <https://community.alfresco.com/thread/212564-ssl-nginx-reverse-proxy-configuration-and-csrf-attack>

Credit: <https://github.com/znc/znc/issues/946>

Credit: <http://stackoverflow.com/questions/18936753/nginx-reverse-proxy-for-tomcat>