



链滴

Linux 系统 nginx 反向代理实现 “https://” 访问 tomcat 项目

作者: [gjTool](#)

原文链接: <https://ld246.com/article/1571197185335>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

目标：实现 "https://" 域名访问tomcat下的项目

环境：centos7（或者其他Linux系统版本）

软件：tomcat9 jdk1.8 nginx1.16

工具：Xftp6(FTP工具) Xshell6(SSH工具)。默认在windows客户端系统下使用，mac os系统另行下其他ftp工具。

相关软件下载：

- [Linux 安装JDK1.8环境](#)
- [Linux 安装nginx](#)
- [Linux安装配置Tomcat](#)
- Xshell6+Xftp6破解版链接：<https://pan.baidu.com/s/1SGi5jJDHC-uqllQogyvFVg> 提取码：pwo
- 申请ssl证书，购买域名时各云网站都会有免费证书申请

如果已经安装好上述软件环境+工具了，那么可以看下一步了。

1、把证书下的crt文件和key文件传到 安装路径/nginx/conf下，并修改配置文件nginx.conf，增加以下内容(放在server { listen 80...}之上就行)

```
upstream tomcat1 {
    server 127.0.0.1:8080 fail_timeout=0;
}
server {
    listen 443 default_server ssl;
    server_name www.gjtool.cn; #修改域名
    ssl on;
    ssl_certificate 2505161_gjtool.cn.pem; #修改证书文件
    ssl_certificate_key 2505161_gjtool.cn.key; #修改证书文件
    ssl_session_timeout 5m;
    ssl_protocols TLSv1 TLSv1.1 TLSv1.2;
    ssl_ciphers ECDHE-RSA-AES128-GCM-SHA256:HIGH:!aNULL:!MD5:!RC4:!DHE;
    ssl_prefer_server_ciphers on;
    error_page 497 "https://$host$uri?$args"; #这是跳转Http请求到Https
    location / {
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header Host $http_host;
        proxy_set_header X-Forwarded-Proto https;
        proxy_redirect off;
        proxy_connect_timeout 240;
        proxy_send_timeout 240;
        proxy_read_timeout 240;
        # note, there is not SSL here! plain HTTP is used
        proxy_pass http://tomcat1; #修改配置，与上面tomcat1一致
    }
}
```

2、修改tomcat配置文件，安装路径/tomcat8.5.1/conf下，并修改配置文件server.xml修改以下内容。redirectPort改为443，并增加proxyPort="443"

<Connector port="8080" protocol="HTTP/1.1"

```

        connectionTimeout="20000"
        redirectPort="443"
        proxyPort="443" />
<Connector port="8009" protocol="AJP/1.3" redirectPort="443" />

```

3、重启tomcat，重启nginx，访问域名，OK了。



4、需要部署项目应用，放到tomcat下即可。

5、如果是solo博客需要转https，还需要修改solo/WEB-INF/classes下latke.properties，serverScheme=http改为serverScheme=https

```

#### Server ####
# Browser visit protocol
serverScheme=https
#serverHost=www.gjtool.cn
#serverPort=443

```

6、如果需要http跳转到https，修改nginx安装路径/nginx/conf下nginx.conf，找到server 80的，并改

```

server {
    listen 80;
    server_name www.gjtool.cn;
    return 301 https://www.gjtool.cn$request_uri;
}

```

7、如果需要无论什么访问都跳转到www

修改nginx安装路径/nginx/conf下nginx.conf，增加

```

server {
    listen 443;
    server_name gjtool.cn;
    return 301 https://www.gjtool.cn$request_uri;
}

```

```
server {
listen 80;
server_name www.gjtool.cn,gjtool.cn;
return 301 https://www.gjtool.cn$request_uri;
}
```

最后，放出我的服务器下nginx的配置文件nginx.conf完整内容

```
#user nobody;
worker_processes 1;

#error_log logs/error.log;
#error_log logs/error.log notice;
#error_log logs/error.log info;

#pid logs/nginx.pid;

events {
    worker_connections 1024;
}

http {
    include mime.types;
    default_type application/octet-stream;

    #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 logs/access.log main;

    sendfile on;
    #tcp_nopush on;

    #keepalive_timeout 0;
    keepalive_timeout 65;

    #gzip on;
    upstream tomcat1 {
        server 127.0.0.1:8080 fail_timeout=0;
    }

    server {
        listen 80;
        server_name www.gjtool.cn,gjtool.cn;
        return 301 https://www.gjtool.cn$request_uri;
    }

    server {
        listen 443;
        server_name gjtool.cn;
        return 301 https://www.gjtool.cn$request_uri;
    }
}
```

```

}
server {
    listen 443 default_server ssl;
    server_name www.gjtool.cn; #修改域名
    ssl on;
    ssl_certificate 2505161_gjtool.cn.pem; #修改证书文件
    ssl_certificate_key 2505161_gjtool.cn.key; #修改证书文件
    ssl_session_timeout 5m;
    ssl_protocols TLSv1 TLSv1.1 TLSv1.2;
    ssl_ciphers ECDHE-RSA-AES128-GCM-SHA256:HIGH:!aNULL:!MD5:!RC4:!DHE;
    ssl_prefer_server_ciphers on;
    error_page 497 "https://$host$uri?$args"; #这是跳转Http请求到Https
    location / {
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header Host $http_host;
        proxy_set_header X-Forwarded-Proto https;
        proxy_redirect off;
        proxy_connect_timeout    240;
        proxy_send_timeout       240;
        proxy_read_timeout       240;
        # note, there is not SSL here! plain HTTP is used
        proxy_pass http://tomcat1; #修改配置，与上面tomcat1一致
    }
}
}

```