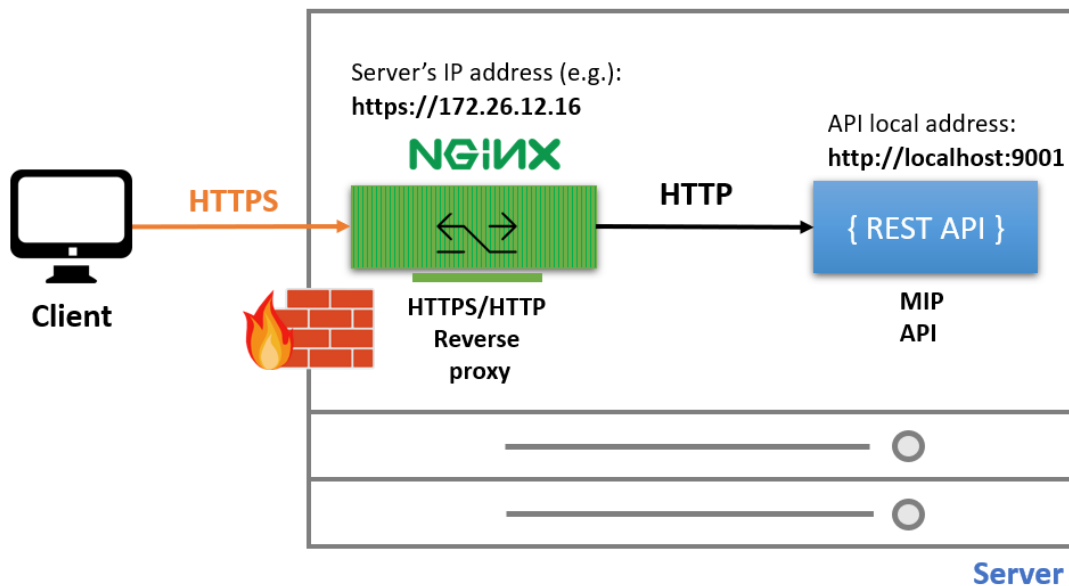


How to proxy HTTPS traffic to the mip REST API?

A way to handle **HTTPS** traffic is to use a reverse proxy, in this particular case we will use **NGINX** as a reverse proxy. NGINX will proxy the request towards the API. In this way the HTTPS connection will be only between the client and the proxy and internally the traffic will be HTTP only. The following picture illustrates the suggested topology.



To configure the reverse proxy use the next steps:

1. Download the Nginx stable version from: <http://nginx.org/en/download.html>
2. Unzip the files and find the configuration file (nginx.conf) inside the conf folder

nginx-1.16.1 > nginx-1.16.1 > conf				Search conf
Name	Date modified	Type	Size	
fastcgi.conf	2/18/2020 9:57 AM	CONF File	2 KB	
fastcgi_params	2/18/2020 9:57 AM	File	2 KB	
koi-utf	2/18/2020 9:57 AM	File	3 KB	
koi-win	2/18/2020 9:57 AM	File	3 KB	
mime.types	2/18/2020 9:57 AM	TYPES File	6 KB	
nginx.conf	2/18/2020 9:57 AM	CONF File	3 KB	
scgi_params	2/18/2020 9:57 AM	File	1 KB	
uwsgi_params	2/18/2020 9:57 AM	File	1 KB	
win-utf	2/18/2020 9:57 AM	File	4 KB	

3. Open the nginx.conf file with a text editor

```
viievents {
    worker_connections 1024;
}

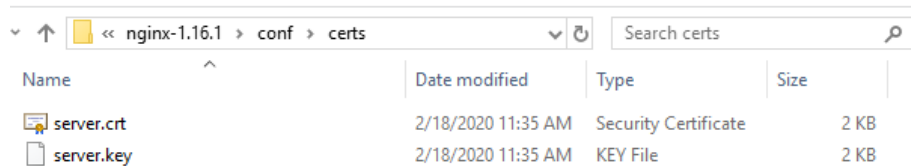
http {
    upstream myapp {
        server localhost:9001;
    }

    server {
        listen 80;
        return 301 https://$host$request_uri;
    }

    server {
        listen 443 ssl;

        ssl_certificate      certs/server.crt;
        ssl_certificate_key   certs/server.key;
        ssl_client_certificate ssl/certs/ca.crt;
        location / {
            proxy_pass http://myapp;
            proxy_set_header Host $host;
        }
    }
}
```

4. Put the ssl certificates inside **./config/certs** folder



Name	Date modified	Type	Size
server.crt	2/18/2020 11:35 AM	Security Certificate	2 KB
server.key	2/18/2020 11:35 AM	KEY File	2 KB

5. Go to the nginx root folder and start it with the following command:

```
D:\Docs\Downloads\nnginx-1.16.1\nnginx-1.16.1>dir
Volume in drive D is Code
Volume Serial Number is 9204-4E93

Directory of D:\Docs\Downloads\nnginx-1.16.1\nnginx-1.16.1

02/18/2020  11:37 AM  <DIR>          .
02/18/2020  11:37 AM  <DIR>          ..
02/18/2020  11:24 AM  <DIR>          conf
02/18/2020  09:57 AM  <DIR>          contrib
02/18/2020  09:57 AM  <DIR>          docs
02/18/2020  09:57 AM  <DIR>          html
02/18/2020  10:45 AM  <DIR>          logs
02/18/2020  09:57 AM             3,697,152  nginx.exe
02/18/2020  10:45 AM  <DIR>          temp
02/18/2020  11:37 AM             515 test.py
                2 File(s)      3,697,667 bytes
                8 Dir(s)  696,322,985,984 bytes free

D:\Docs\Downloads\nnginx-1.16.1\nnginx-1.16.1>start nginx.exe
D:\Docs\Downloads\nnginx-1.16.1\nnginx-1.16.1>
```