

# Operate GateOne behind Apache reverse proxy

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After installing GateOne on my [Raspberry Pi 2 Debian system](#), I can log on to SSH via HTTP and browser. But only from my internal network, as the external accessible port is blocked by Apache. To add GateOne from outside, I either can disable Apache (no, won't do it) or make GateOne accessible through Apache. I'll use Apache as a reverse proxy for this.

*Note: you'll need Apache 2.4 for this, as GateOne uses Websocket for communication, and this is included only ootb with Apache 2.4.*

## Configuration

### GateOne

I won't use a subdomain for this example, so no new Apache virtual host will be use. This means that I have to use a URL prefix to access GateOne. The prefix is: /ssh. This must be configured in the GateOne configuration file:

```
sudo vim /opt/gateone/server.conf
```

Change the parameter url\_prefix and restart GateOne

```
url_prefix = "/ssh"
```

To be able to access GateOne from external, the URL of the external server must be added to origin. In my case, this means that [www.itsfullofstars.de](http://www.itsfullofstars.de) is added.

```
origins = "https://www.itsfullofstars.de:8081;http://127.0.0.1;http://localhost
```

### Apache

To make use of Apache as a reverse proxy, first the modules must be enabled. You can do this with a2enmod. Add also the web socket module

```
sudo a2enmod proxy_wstunnel sudo a2enmod proxy_http
```

Edit the apache configuration to add a reverse proxy for /ssh. Do this for HTTP and WS. In case GateOne

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listens on TLS, do this for HTTPS and WSS.

```
ProxyPass /ssh ws://127.0.0.1:9080/ssh ProxyPassReverse /ssh ws://127.0.0.1:9080/ssh  
ProxyPass /ssh http://127.0.0.1:9080/ssh ProxyPassReverse /ssh http://127.0.0.1:9080/ssh
```

Restart Apache.

```
sudo service apache2 restart
```

Now its possible to access GateOne through /ssh from external.