

Configure Apache HTTPd as a reverse proxy (mod_proxy)

 [Configuring a remote Apache HTTP server](#)

[Configure Apache HTTPd with Jakarta Tomcat Connector \(mod_jk\)](#) 

This is the simplest way to re-route requests from the Apache HTTPd to the Geronimo servers (or any other server you may have). To use this feature you will need to enable some specific modules and add a few lines to the HTTPd configuration. These steps are described next.

1. Open the `httpd.conf` file located in the `<httpd_home>\conf` directory.
2. Look for the following `LoadModule` directives and uncomment them by removing the `#` at the beginning of the line.

```
LoadModule proxy_module modules/mod_proxy.so
LoadModule proxy_http_module modules/mod_proxy_http.so
```

3. At the bottom of the `httpd.conf` add the following lines to enable the re-routing.

```
ProxyPass /console http://localhost:8080/console
ProxyPass /images http://localhost:8080/images
ProxyPassReverse / http://localhost:8080/
```

You may need to add more **ProxyPass** directives depending on the requirements of your application. The last **ProxyPassReverse** directive captures the responses from the Geronimo server and masks the URL as it would be directly responded by the Apache HTTPd hiding the identity/location of the Geronimo server.



In this example the **console** has been enabled just for demonstration purposes. In a production environment you will not want to have the **console** accessible from the other network (normally the Internet). Having the **console** accessible represents a big security exposure.

The rule is that everything should have restricted access, normally a firewall would be placed in between the HTTP and the application server (depending on the topology) and you should map just the minimum resources necessary to have your application working from the other side.

If both HTTPd and Geronimo servers are in the same machine you can use `localhost` for the redirection, when the servers are located in different machines you would have to specify the URL for the Geronimo server.

As the result of this configuration, when you point your browser to <http://localhost/console>, the request will be redirected to <http://localhost:8080/console>. This option allows to re-route URLs and ports.

Note: If you prefer to use **mod_proxy_ajp** rather than **mod_proxy_http**, you need to load `proxy_ajp_module` in `httpd.conf` and change the routing port to 8009(default) as followed:

```
LoadModule proxy_module modules/mod_proxy.so
LoadModule proxy_ajp_module modules/mod_proxy_ajp.so
...
ProxyPass /console ajp://localhost:8009/console
ProxyPass /images ajp://localhost:8009/images
ProxyPassReverse / ajp://localhost:8009/
```