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# Genesys Mobile Services Deployment Guide

Apache Load Balancer

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# Apache Load Balancer

The following is an example of how to configure Apache load balancer that can be positioned in front of GSG nodes for API requests distribution. For configuration of other load balancing solutions, please refer to their documentation.

## Configuration of mod\_proxy\_balancer

Install Apache 2.2 or higher, starting from this version, mod\_proxy is able to use the extension mod\_proxy\_balancer. Make sure the following modules are present in your Apache "modules\" folder; upload them if they are absent:

- mod\_proxy.so
- mod\_proxy\_balancer.so

Add the following strings to your Apache configuration "httpd.conf" file in order to load the modules:

- LoadModule proxy\_module modules/mod\_proxy.so
- LoadModule proxy\_balancer\_module modules/mod\_proxy\_balancer.so

Basically, you need to add node-based configuration; for this, add the following to the httpd.conf file:

```
ProxyPass / balancer://my_cluster/ stickysession=jsessionid nofailover=0n
```

```
<Proxy balancer://my_cluster>
  BalancerMember http://yourjetty1:8080 route=jetty1
  BalancerMember http://yourjetty2:8080 route=jetty2
</Proxy>
```

Proxy balancer:// - defines the nodes (workers) in the cluster. Each member may be a http:// or ajp:// URL or another balancer:// URL for cascaded load balancing configuration. If the worker name is not set for the Jetty servers, then session affinity (sticky sessions) will not work. The JSESSIONID cookie must have the format <sessionId>.<worker name>, in which worker name has the same value as the route specified in the BalancerMember above (in this case "jetty1" and "jetty2"). As an example: The following can be added to the jetty-web.xml file to set the worker name in case you need session affinity (sticky sessions):

```
<Configure class="org.mortbay.jetty.webapp.WebAppContext">
  <Get name="sessionHandler">
    <Get name="sessionManager">
      <Call name="setIdManager">
        <Arg>
          <New class="org.mortbay.jetty.servlet.HashSessionIdManager">
            <Set name="WorkerName">jetty1</Set>
          </New>
        </Arg>
      </Call>
    </Get>
  </Get>
```

</Configure>

### Load Balancer Management Page

Apache provides balancer manager support so that the status of balancer can be viewed on a web page. The following configuration enables this UI at /balancer URL:

```
<Location /balancer>
SetHandler balancer-manager

    Order Deny,Allow
    Deny from all
    Allow from all
</Location>
```