

## Configuring and starting the balancer

### Warning

This function is obsolete and is not supported now! Please use [HAProxy](#), [AWS LB](#) or another load balancing tools

The balancer starts along with the instance of the server if the `load_balancing_enabled=true` parameter is set in the `flashphoner.properties` configuration file. The balancer uses the `loadbalancing.xml` configuration file during operation.

For correct operation of the balancer it is required that every instance correctly provided data about its load and calls via HTTP. A special HTTP URL is used for that:

`http://192.168.1.5:8081/?action=stat`, where `192.168.1.5` is the IP address of the WCS server.

```
calls=0
committedMemory=1555361792
freePhysicalMemorySize=4702208
arch=amd64
availableProcessors=1
freeSwapSpaceSize=1018695680
maxFileDescriptorCount=20000
openFileDescriptorCount=70
processCpuLoad=0.00
systemCpuLoad=0.00
systemLoadAverage=0.95
totalPhysicalMemorySize=536870912
totalSwapSpaceSize=1077501952
```

Main parameters that are taken into account when choosing a server:

- `calls` (mode=`FEWESTCALLS`)
- `systemCpuLoad` (mode=`LEAST_LOADED_NODE`)

The rest of the returned information is supplemental and has no effect on the choice of a server during load balancing.

You can also create your own load balancer that will query servers and choose the most preferable one based, for example, on the nearest geo location.

