

## Performance Test Plan Template

Revision 28/06/2021

<b>Purpose:</b>	We will attempt to determine the ultimate “failure point” of our back-end file downloader system. Knowing the capabilities of our file downloader system will inform us on how to improve this system when Adhara faces high user activity.
<b>Website Description :</b>	The site has for first goal to be a site to seek and carry out a formation in various field of the data processing and the human resource. But it also aims to be a bridge with the companies to allow them to have a visualization on the formations, and the general satisfaction, as well as to make a pdf rendering of this one. However, the trainers of trainings have also their space to have a visualization on their upcoming training. Users are generally customers or companies who want to sell their trainings.
<b>Performance Criteria</b>	
<b>Goals:</b>	To determine the ultimate failure point of the current file system configuration for our back-end file system downloader.
<b>Test Type:</b>	<b>Saturation Point Test</b> <hr/> This test will attempt to ascertain the maximum number of concurrent “typical” users that the system can support without experiencing a significant degradation in service.
<b>Failure Criteria:</b>	A test run will be considered “failed” if any of the following conditions are met: <ul style="list-style-type: none"> <li>• The application does not handle the required amount of load, generating errors or performance issues.</li> <li>• Loose of Adhara’s accessibility to customers</li> </ul>
<b>Validation Criteria :</b>	<ul style="list-style-type: none"> <li>• The error rate should be below 5%</li> <li>• Response time should not vary and be stable</li> </ul>
<b>Technical Requirements</b>	
<b>Environment:</b>	Monolith Application. Back-End : <ul style="list-style-type: none"> <li>• PHP8 / Joomla 4.1 / MySQL 5.6</li> </ul> Front End : <ul style="list-style-type: none"> <li>• HTML5 / CSS 3 / JS / Joomla / JQuery</li> </ul> Hardware : <ul style="list-style-type: none"> <li>• OVH</li> <li>• Not enough informations</li> </ul>
<b>Credentials:</b>	
<b>Telemetry:</b>	We need to measure some metrics : <ul style="list-style-type: none"> <li>• CPU/Memory/Disk usage</li> <li>• Error rate</li> <li>• Response Time</li> </ul>

Load Profile	
<b>User Lifecycle:</b>	<p>Only registered users and logged users have access to the file downloader system.</p> <p>Steps :</p> <ul style="list-style-type: none"> <li>• Home Page (mid data volume receveid / low data volume sent)</li> <li>• Login or Register (low data volume received and sent)</li> <li>• Customer management (low data volume received and sent)</li> <li>• My files -&gt; click on the download button</li> </ul>
<b>Concurrency:</b>	Concurrency will evolve as a continuous charged load. Number of users will evolve and will result in a high download rate and high download request to a critical point.
Post-Test Analysis	
<b>Data collection:</b>	A fixed number of files that can be downloaded. All users' data will be the same as those already in production.
<b>Reporting:</b>	
<b>Summary:</b>	