

Performance Test Plan Template

Revision 28/06/2021

Purpose:	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.
Website Description :	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.

Performance Criteria

Goals:	To determine the ultimate failure point of the current file system configuration for our back-end file system downloader.
Test Type:	<p>Saturation Point Test</p> <p>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.</p>
Failure Criteria:	<p>A test run will be considered “failed” if any of the following conditions are met:</p> <ul style="list-style-type: none"> • The application does not handle the required amount of load, generating errors or performance issues. • Loss of Adhara’s accessibility to customers
Validation Criteria :	<ul style="list-style-type: none"> • The error rate should be below 5% • Response time should not vary and be stable

Technical Requirements

Environment:	<p>Monolith Application.</p> <p>Back-End :</p> <ul style="list-style-type: none"> • PHP8 / Joomla 4.1 / MySQL 5.6 <p>Front End :</p> <ul style="list-style-type: none"> • HTML5 / CSS 3 / JS / Joomla / JQuery <p>Hardware :</p> <ul style="list-style-type: none"> • OVH • Not enough informations
Credentials:	
Telemetry:	<p>We need to measure some metrics :</p> <ul style="list-style-type: none"> • CPU/Memory/Disk usage • Error rate • Response Time

Load Profile

User Lifecycle:	Only registered users and logged users have access to the file downloader system. Steps : <ul style="list-style-type: none">• Home Page (mid data volume received / low data volume sent)• Login or Register (low data volume received and sent)• Customer management (low data volume received and sent)• My files -> click on the download button
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Concurrency:	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.
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Post-Test Analysis

Data collection:	A fixed number of files that can be downloaded. All users' data will be the same as those already in production.
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Reporting:	
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Summary: