



LoadTestLab

User Manual

Complete guide to the LoadTestLab web application and the LTL Agent for automated Apache JMeter performance testing

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Contents

1. About LoadTestLab.....	3
2. Who Is LoadTestLab For	3
3. What LoadTestLab Does – and What It Does Not Do	3
4. How LoadTestLab Works with the LTL Agent.....	4
5. Key Benefits.....	5
6. Time Savings.....	5
7. Security.....	6
8. Infrastructure Requirements.....	7
9. Current Limitations.....	7
10. Registration and Sign-in	8
11. Subscription and Payment	10
12. Application Layout.....	10
13. Dashboard	12
14. Projects.....	14
15. Labels.....	17
16. Tests.....	18
17. Scheduled Tests.....	25
18. Agent	27
19. Users.....	27
20. Notifications	29
21. Reports	31
22. File Templates	31
23. Subscription.....	32
24. Invoices.....	33
25. Help	34
26. User Account Menu.....	34
27. Step 1 – Creating the LTL Agent	37
28. Step 2 – Configuring the LTL Agent	37
29. Step 3 – Downloading the LTL Agent	38
30. Step 4 – Installing and Running the LTL Agent	38
31. Step 5 – Setting Up the Performance Test.....	39
32. Step 6 – Starting and Scheduling Tests	40
33. Step 7 – Stopping, Results, Evaluation and Notifications	40
34. Changing the LTL Agent Configuration.....	40
35. Generating a New JWT Certificate	41
36. Deleting the LTL Agent	41
37. Glossary	42

PART I

Introduction to LoadTestLab

This part explains what LoadTestLab is, whom it is intended for, how it works together with the LTL Agent and Apache JMeter, and what benefits it brings to performance testers and their organisations.

1. About LoadTestLab

LoadTestLab is a cloud-based web application (LTL Cloud) for the automation and management of performance tests executed with **Apache JMeter**. It provides performance testers with a single place where they can configure, schedule, start and stop tests, collect and archive the measured results, evaluate them against defined acceptance criteria, compare them with a reference test, generate reports and automatically inform all interested parties.

LoadTestLab works together with the **LTL Agent**, a lightweight application that the tester installs on the load generator, i.e. the computer or server on which JMeter is installed. The LTL Agent receives commands from LoadTestLab, runs JMeter in non-GUI mode and sends the measured results back to LoadTestLab automatically.

NOTE

LoadTestLab is a tool designed exclusively for **Apache JMeter** and for **performance testers**. It does not replace JMeter; it extends it with automation, evaluation, reporting and record-keeping capabilities.

2. Who Is LoadTestLab For

User group	How they benefit
Performance testers	Automate repetitive activities around test execution and focus on test design, analysis and tuning instead of administration.
Test managers and test leads	Gain an overview of planned, running and completed tests across projects, and receive results and evaluations automatically.
Project managers and stakeholders	Receive clear test reports and notifications without needing access to JMeter or to the load generator.
Developers and operations teams	Get fast feedback on whether performance has improved or deteriorated after each change thanks to the comparison with the reference test.
Companies and testing service providers	Keep a central, secure and auditable archive of all performance tests, scripts and results for their projects and customers.

3. What LoadTestLab Does – and What It Does Not Do

It is important to understand the scope of the solution. LoadTestLab **does not create or debug performance test scripts**. The tester continues to design, create, parameterise and debug the JMeter test plans (.jmx files) manually in Apache JMeter, exactly as before. LoadTestLab takes over everything that happens **around** the execution of a finished, debugged script.

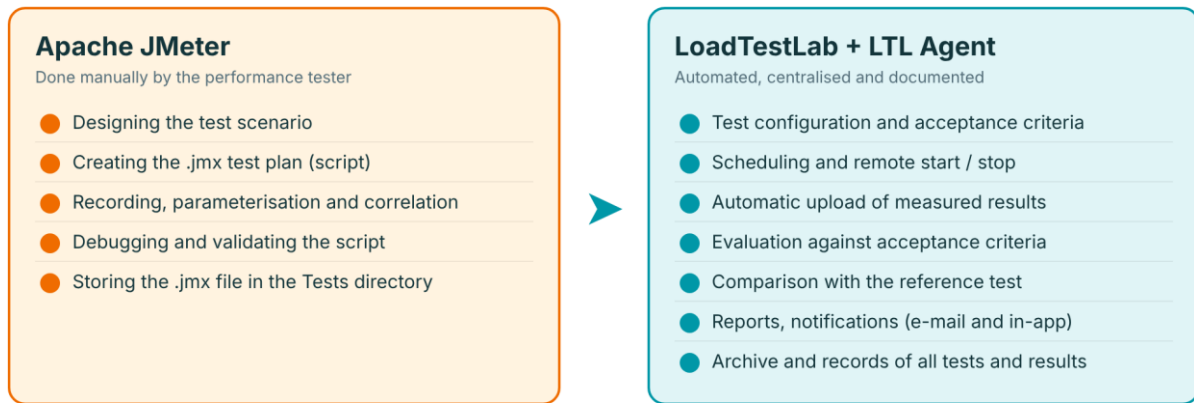


Figure 1: Division of responsibilities between JMeter and LoadTestLab

LoadTestLab is used for:

- **execution** of performance tests on the load generator through the LTL Agent, including remote start and stop,
- **planning and scheduling** of one-off and regular test runs in a calendar,
- **automation** of the complete test cycle: start, stop, upload of results, evaluation and reporting,
- **evaluation** of the results against performance acceptance criteria and **comparison** with a reference test,
- **reporting and notifications** by e-mail and in the application,
- **records and archiving** of tests, their configurations, JMeter outputs, reports and evaluations.

IMPORTANT

Performance test scripts must still be created and debugged by the tester in Apache JMeter. LoadTestLab only executes, automates, evaluates, reports and keeps records of tests based on scripts that already work correctly.

4. How LoadTestLab Works with the LTL Agent

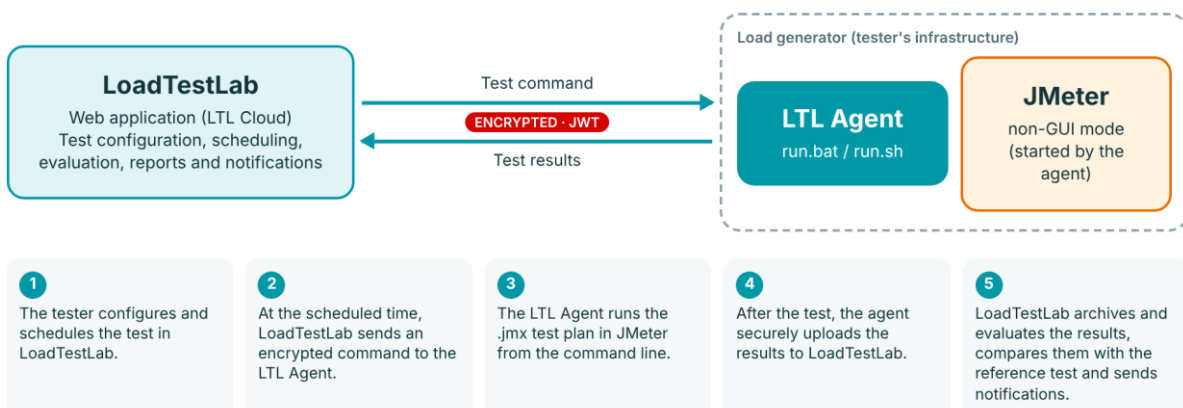


Figure 2: Communication between LoadTestLab, the LTL Agent and JMeter

1. The tester downloads a pre-configured LTL Agent from LoadTestLab and extracts it on the load generator on which JMeter is installed.
2. In LoadTestLab, the tester creates a test, specifies the JMeter .jmx file to be executed, the test parameters (load, duration, ramp-up), the acceptance criteria and, optionally, the schedule (date, time and frequency).

3. At the scheduled time (or when the tester clicks **Start**), LoadTestLab sends an encrypted command to the LTL Agent.
4. The LTL Agent starts JMeter from the command line in non-GUI mode with the requested parameters.
5. When the test finishes, the LTL Agent securely uploads the measured results to LoadTestLab.
6. LoadTestLab archives the results, evaluates them against the acceptance criteria, compares them with the reference test, generates reports and sends notifications by e-mail and in the application.

IMPORTANT

During this process the load generator must be switched on, the LTL Agent must be running and it must have Internet access. Neither the LoadTestLab web application nor the JMeter GUI needs to be open.

5. Key Benefits

Automation of the complete test cycle

- Tests can be started and stopped remotely from LoadTestLab at any time, even without access to the load generator.
- Any number of tests from different projects can be scheduled in the calendar, including regular (daily, weekly, monthly) runs.
- Results are uploaded, evaluated, compared with the reference test and reported automatically after every test.
- Project members are notified automatically about the start, end and results of tests.

Quality and consistency of results

- Every test is evaluated using the same, explicitly defined acceptance criteria (error rate and average response time, at project or test level).
- Each run of a regression test is compared with the selected reference test, so improvements and deteriorations are visible immediately.
- Tests run in the recommended JMeter **non-GUI mode**, which saves CPU and RAM on the load generator and allows it to generate a higher load than in GUI mode, without additional hardware investment.

Central records and archive

- Test configurations, schedules, executed tests, JMeter outputs, reports and evaluations are kept in one place. No separate spreadsheets or documents are needed.
- Projects, labels and users provide a clear structure for teams and customers.

Simple deployment

- No installation is required: the LTL Agent is a .zip file that only needs to be extracted.
- Windows and Linux are supported. No VPN and no firewall exceptions for incoming traffic are required.

6. Time Savings

LoadTestLab removes the routine manual activities that a performance tester typically has to carry out before, during and after each test run. The table below summarises them.

Activity per test run	Without LoadTestLab	With LoadTestLab
Being present to start and stop the test at the planned time	Manual, often outside working hours	Automatic according to the schedule
Copying and uploading JMeter results	Manual	Automatic (LTL Agent)
Evaluating results against acceptance criteria	Manual analysis	Automatic
Comparing results with the previous (reference) run	Manual, error-prone	Automatic
Preparing the test report with charts	Manual	Automatic
Informing the team about start, end and results	Manual e-mails	Automatic e-mail and in-app notifications
Keeping records of configurations, scripts and outputs	Separate files and spreadsheets	Central archive in LoadTestLab

TIP

Illustrative example: if the routine activities above take approximately 2 hours per test run and a team performs 10 regression runs per month, LoadTestLab saves roughly **20 hours of work per month** for one tester, and tests can also run at night or at weekends without anyone being present.

The actual savings depend on the number of tests, the size of the team and the reporting requirements of the project.

7. Security

LoadTestLab was designed so that it can be used safely in corporate environments, including environments with strict security policies.

Area	How security is ensured
Encrypted communication	All communication between LoadTestLab (LTL Cloud) and the LTL Agent in the tester's internal infrastructure is encrypted and complies with current security standards.
Authentication of the agent	The LTL Agent authenticates with a JWT certificate (JSON Web Token, RFC 7519) valid for 60 days. It is refreshed automatically and can be regenerated manually at any time, for example when an employee leaves or a customer changes.
No inbound access to your network	The LTL Agent connects from the load generator to LTL Cloud. No VPN, no open inbound ports and no allow-listing of the LTL Cloud IP address are required.
Your scripts stay with you	Only the file name of the JMeter .jmx test plan is stored in LoadTestLab; the script itself is not uploaded and remains on the load generator.
Encrypted data storage	The tester's data stored in LTL Cloud is encrypted and complies with the strictest security standards.

Area	How security is ensured
Access control	Users have roles; administrators can activate, deactivate, terminate or restore user accounts and reset passwords. Projects have defined members.
Secure payments	Payments are processed by Stripe . Card details are entered only on Stripe's secure payment page.

8. Infrastructure Requirements

LoadTestLab does **not** place any special requirements on the customer's infrastructure or IT department. The **only** requirement is that the LTL Agent on the load generator is permitted to **access the Internet**.

Area	Requirement
Network	Internet access for the LTL Agent on the load generator. No VPN, no inbound ports, no IP allow-listing.
Operating system	Windows (agent started with <code>run.bat</code>) or Linux (agent started with <code>run.sh</code>).
Java	Java JDK or JRE, version 1.8 or later .
JMeter	The latest version of Apache JMeter with the recommended <code>user.properties</code> file (see Chapter 22).
Hardware	No specific CPU, RAM or disk requirements for the agent; any standard computer meets them with a reserve. Set the JVM heap of JMeter according to the vendor's recommendations.
Browser	A current web browser for working with the LoadTestLab web application.

9. Current Limitations

- The LTL Agent requires Internet access in order to function.
- Currently, a registered company (team) can create only **one** LTL Agent.
- Interim results of a running test are not yet available online in LoadTestLab. They can be viewed in real time directly on the load generator.
- Only one test can be executed through the LTL Agent at a time. A second, simultaneous test must be started manually and its results uploaded manually (see Chapter 31).

PART II

Getting Started

This part describes how to create an account, sign in, subscribe to the service and find your way around the application.

10. Registration and Sign-in

Signing in

Open the LoadTestLab login page, enter your **Email** and **Password** and click **Login**. Alternatively, you can sign in with your **Google account** by clicking the Google button below the login form.

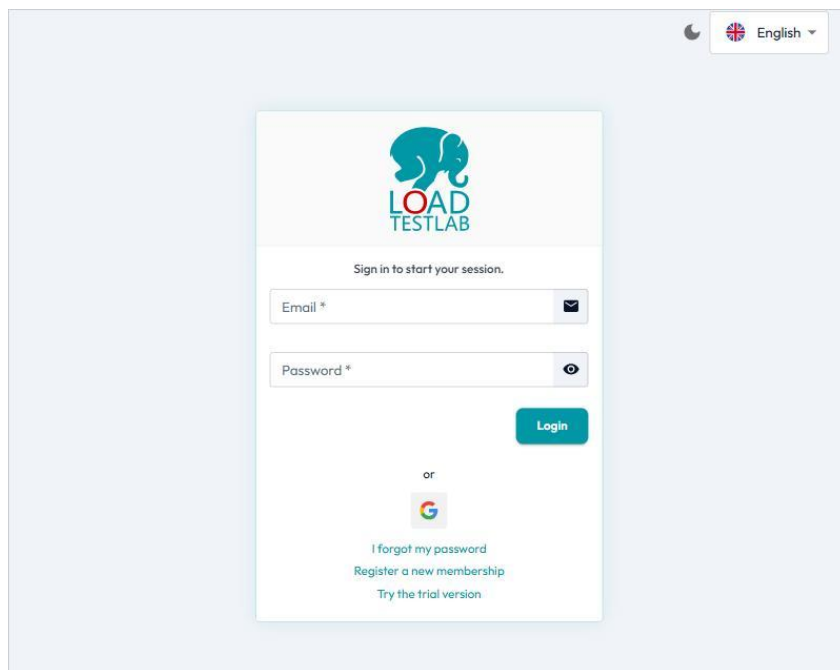


Figure 3: Login page

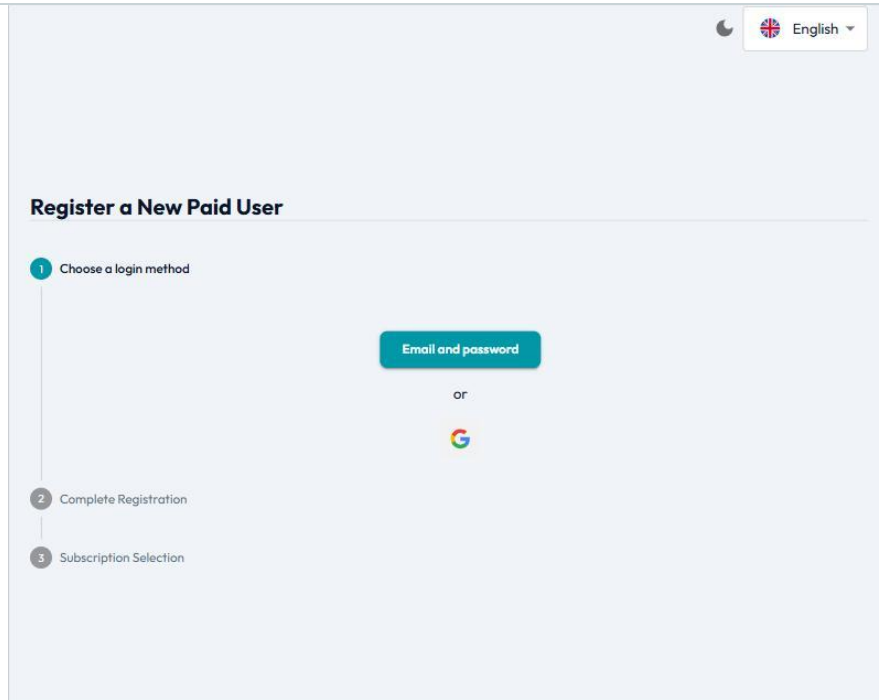
The login page also provides the following options:

- **I forgot my password** – enter your e-mail address and click **Confirm** to receive instructions for resetting your password.
- **Register a new membership** – registration of a new paid user (see below).
- **Try the trial version** – registration of a free trial user.
- Language selection and a light/dark theme switch in the upper-right corner.

Registering a new paid user

Registration consists of three steps:

1. **Choose a login method** – select **Email and password**, or register with your **Google account**.
2. **Complete Registration** – enter the company details (company name, tax ID number), the contact person (name and surname, e-mail) and the residential or registered address, accept the Terms of Use of the Service and the Privacy Policy, and click **Register**.
3. **Subscription Selection** – choose the subscription and complete the payment (see Chapter 11).



Register a New Paid User

1 Choose a login method

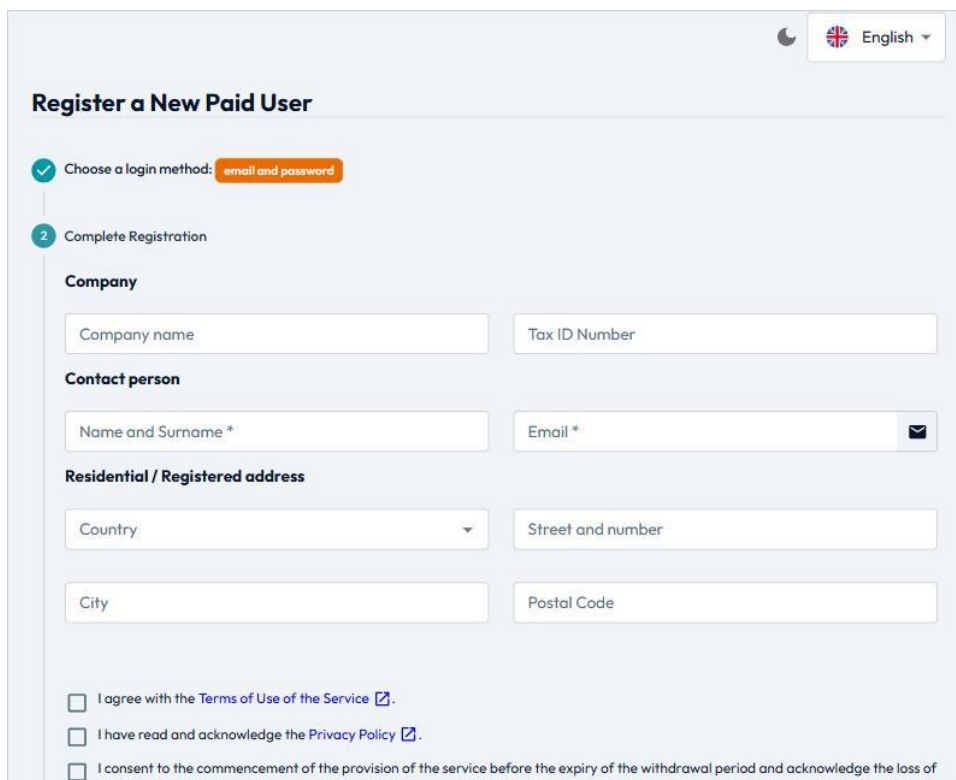
Email and password

or

2 Complete Registration

3 Subscription Selection

Figure 4: Registration – Step 1: choosing a login method



Register a New Paid User

✓ Choose a login method: email and password

2 Complete Registration

Company

Company name Tax ID Number

Contact person

Name and Surname * Email *

Residential / Registered address

Country Street and number

City Postal Code

☐ I agree with the [Terms of Use of the Service](#).

☐ I have read and acknowledge the [Privacy Policy](#).

☐ I consent to the commencement of the provision of the service before the expiry of the withdrawal period and acknowledge the loss of

Figure 5: Registration – Step 2: company and contact details

Registering a trial user

The trial registration (**Try the trial version**) has only two steps – choosing a login method (e-mail and password, or Google account) and completing the registration. No payment is required.

11. Subscription and Payment

LoadTestLab is provided as a subscription service. In the third step of the registration (**Subscription Selection**), select the subscription you want to use. The application then redirects you to the secure **Stripe** payment gateway, where you enter your payment details and confirm the payment.

NOTE

The Stripe payment gateway is the last step of the subscription process. All further steps take place on Stripe's secure pages and are therefore not described in this manual.

After successful payment:

- the subscription becomes active and is shown in **Subscription** in the left menu,
- you receive the notification **Subscription was activated**,
- the invoice is available in **Invoices** in the left menu.

Subscription types available for users are **Free trial**, **Monthly fee** and **Yearly fee**. Management of an existing subscription is described in Chapter 23.

12. Application Layout

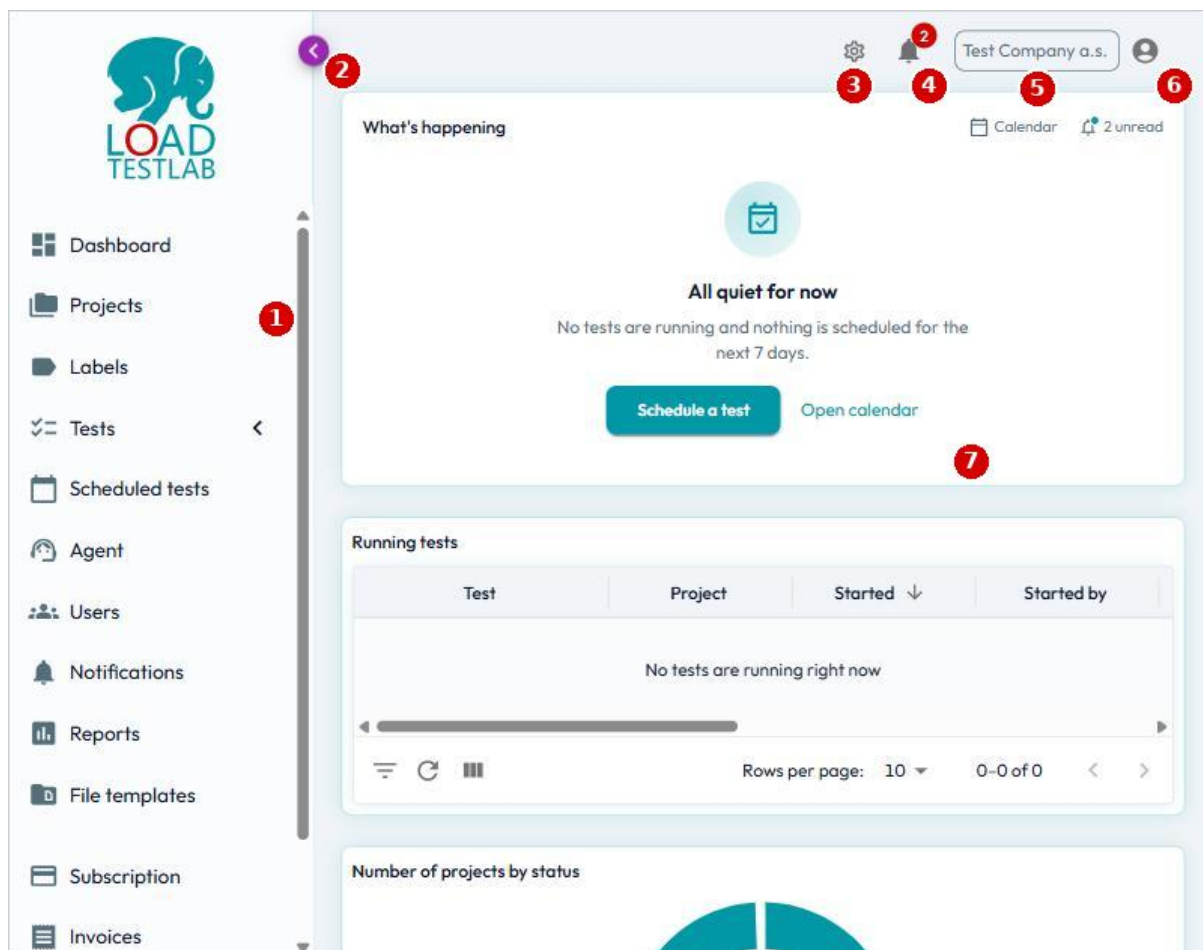


Figure 6: Main parts of the application window

No.	Element	Description
1	Left main menu	Navigation to all modules: Dashboard, Projects, Labels, Tests (Test list, Test evaluations, Test comparisons), Scheduled tests, Agent, Users, Notifications, Reports, File templates, Subscription, Invoices and Help. The application version is shown at the bottom.
2	Collapse menu	Collapses or expands the left menu.
3	Customize dashboard	Available on the Dashboard; switches the dashboard into editing mode (see Chapter 13).
4	Notifications	Bell icon with the number of unread notifications; opens a list of the latest notifications (see Chapter 20).
5	Team	Name of the team (company) you are currently working in.
6	User account menu	Profile, Preferences and Logout (see Chapter 26).
7	Working area	Content of the selected module.

Working with tables

Most modules display data in tables with a common toolbar:

Control	Function
Column header	Click to sort by the column (ascending/descending).
Filter	Filter the rows by the values of one or more columns.
Refresh	Reload the data in the table.
Manage columns	Show or hide individual columns.
Export (download icon)	Download the content of the table (available in selected tables).
Rows per page and arrows	Set the number of rows displayed and move between pages.

Items shown as underlined links (for example a project or test name) open the detail of the item.

PART III

Working with the Application

This part describes all modules available from the left main menu, the top menu and the dashboard.

13. Dashboard

The **Dashboard** is the start page of the application. It provides an overview of the current situation in your team.

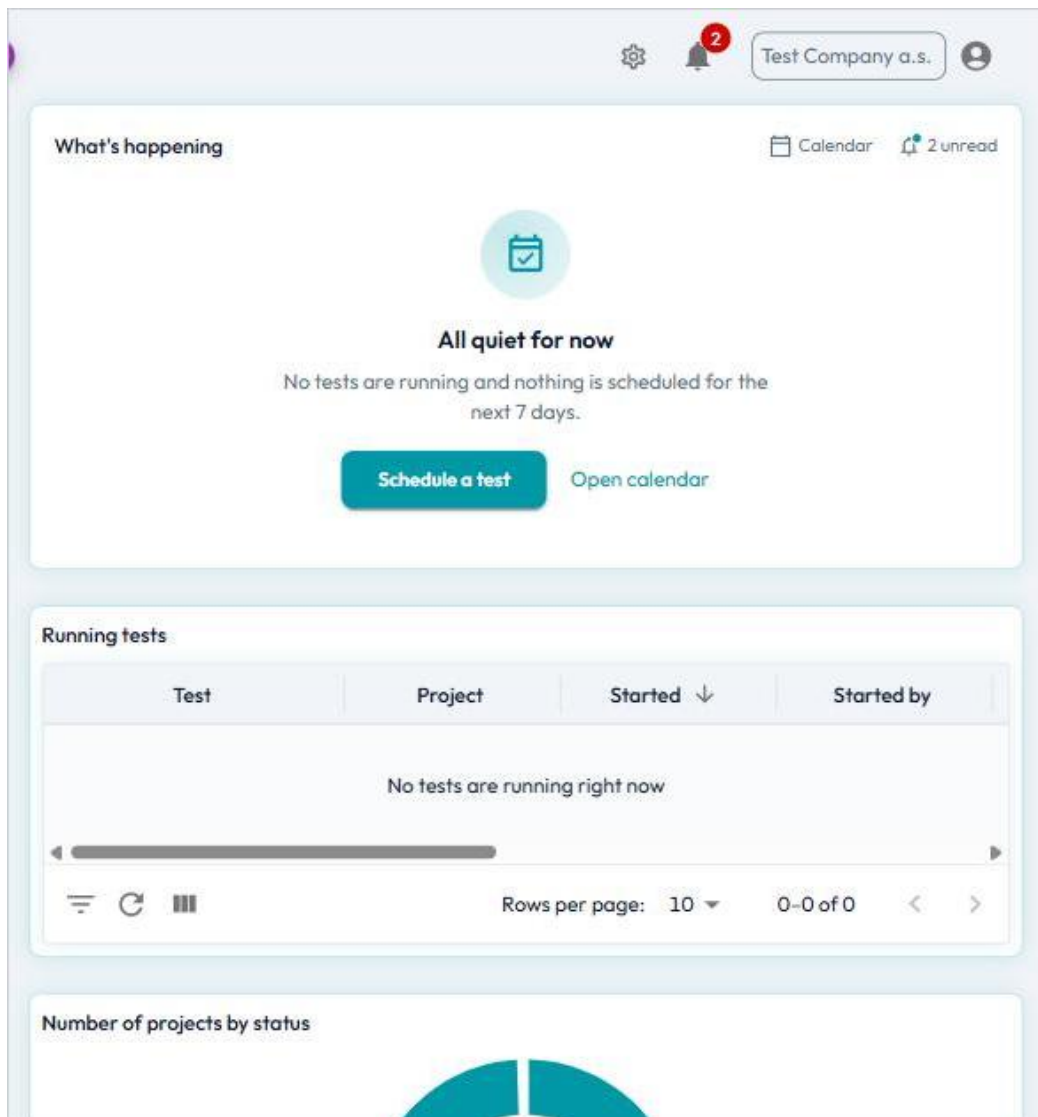


Figure 7: Dashboard

Widget	Content
What's happening	Summary of running tests and tests scheduled for the next 7 days, with links to the Calendar and to unread notifications, and the buttons Schedule a test and Open calendar .
Running tests	Tests currently running: test, project, start time, started by, test type and progress.
Number of projects by status	Chart of active and inactive projects.

Widget	Content
Number of tests by status	Chart of active and inactive tests.
Number of test evaluations performed over time	Trend of performed test evaluations.
Active projects	List of active projects with label, description and number of tests.
Active tests	List of active tests with label, test type, application and application version.
Performed comparisons	Latest comparisons with reference tests, including the difference in the total error rate.

Customising the dashboard

Click the **Customize dashboard** icon (gear) in the top bar. In editing mode you can:

- drag widgets to a different position (or move them with the arrow keys on the handle),
- show or hide a widget with the **Show widget** check box,
- change the **Widget width**,
- return to the original layout with **Restore defaults**.

Changes are saved automatically. Click the check mark (**Done**) to leave editing mode.

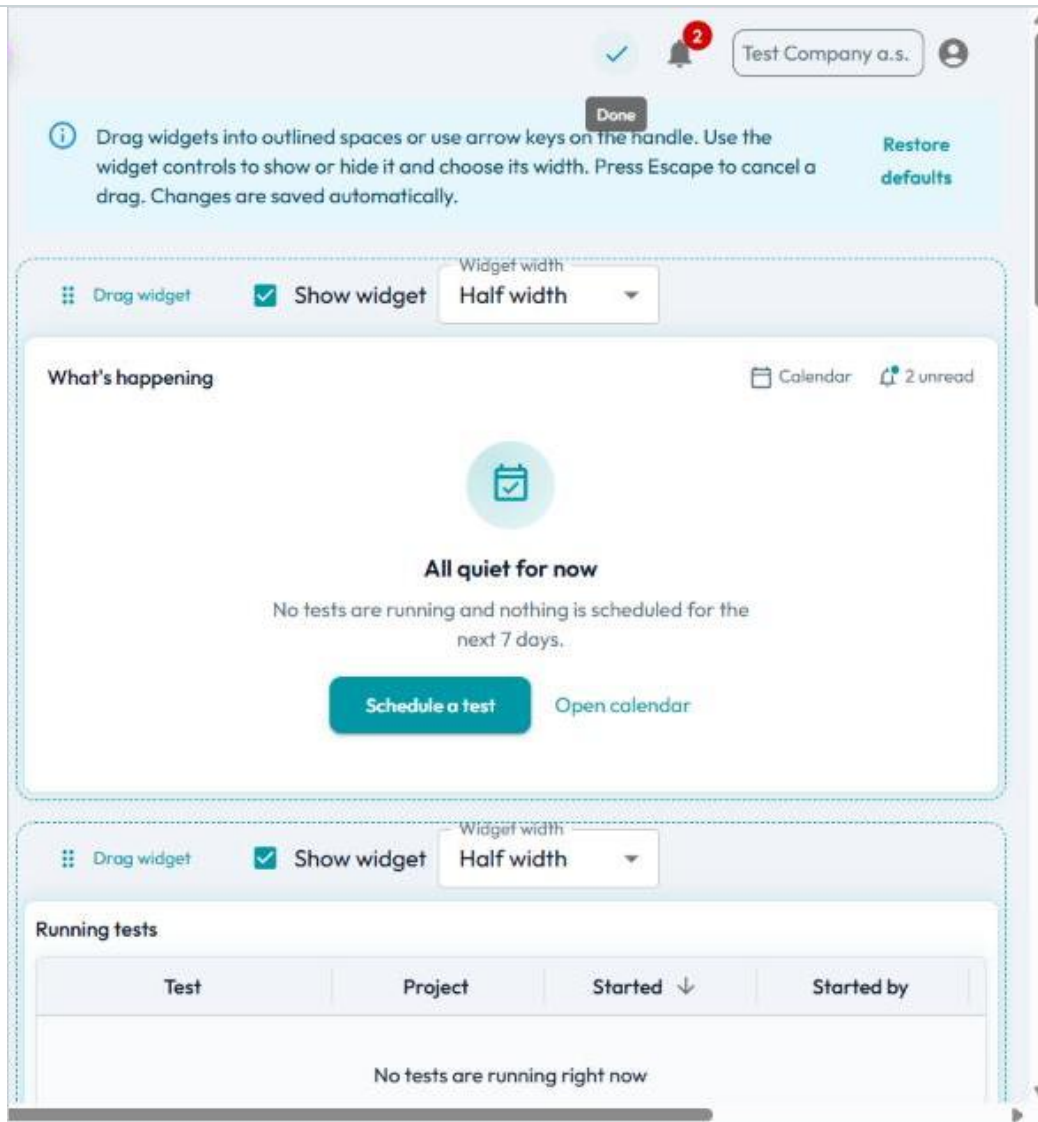


Figure 8: Dashboard in editing mode

14. Projects

Projects are used to organise tests, for example by application, customer or contract. Each project has its own members and its own default performance acceptance criteria, which apply to all tests of the project unless a test defines its own.

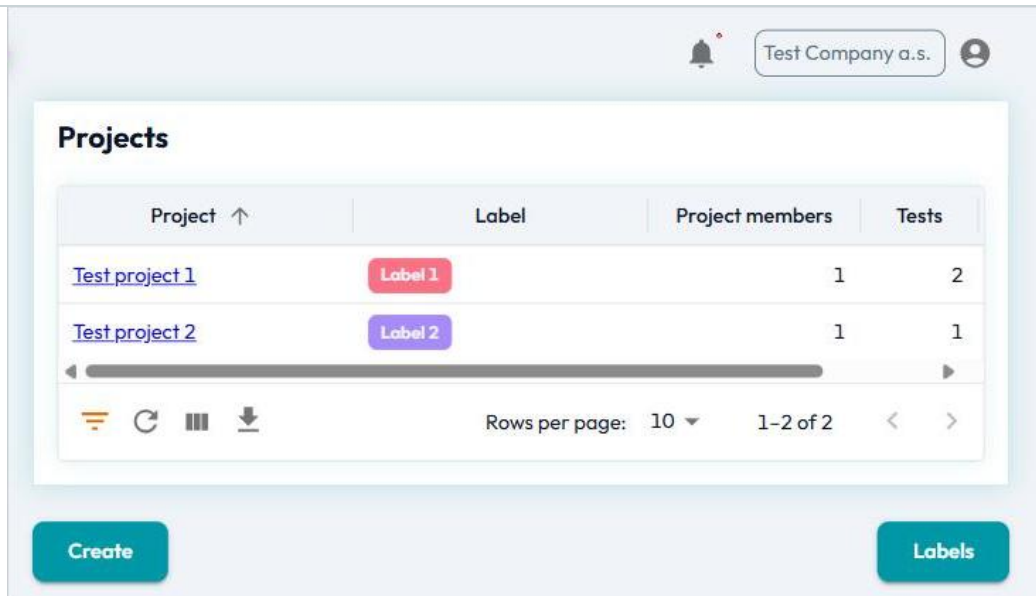
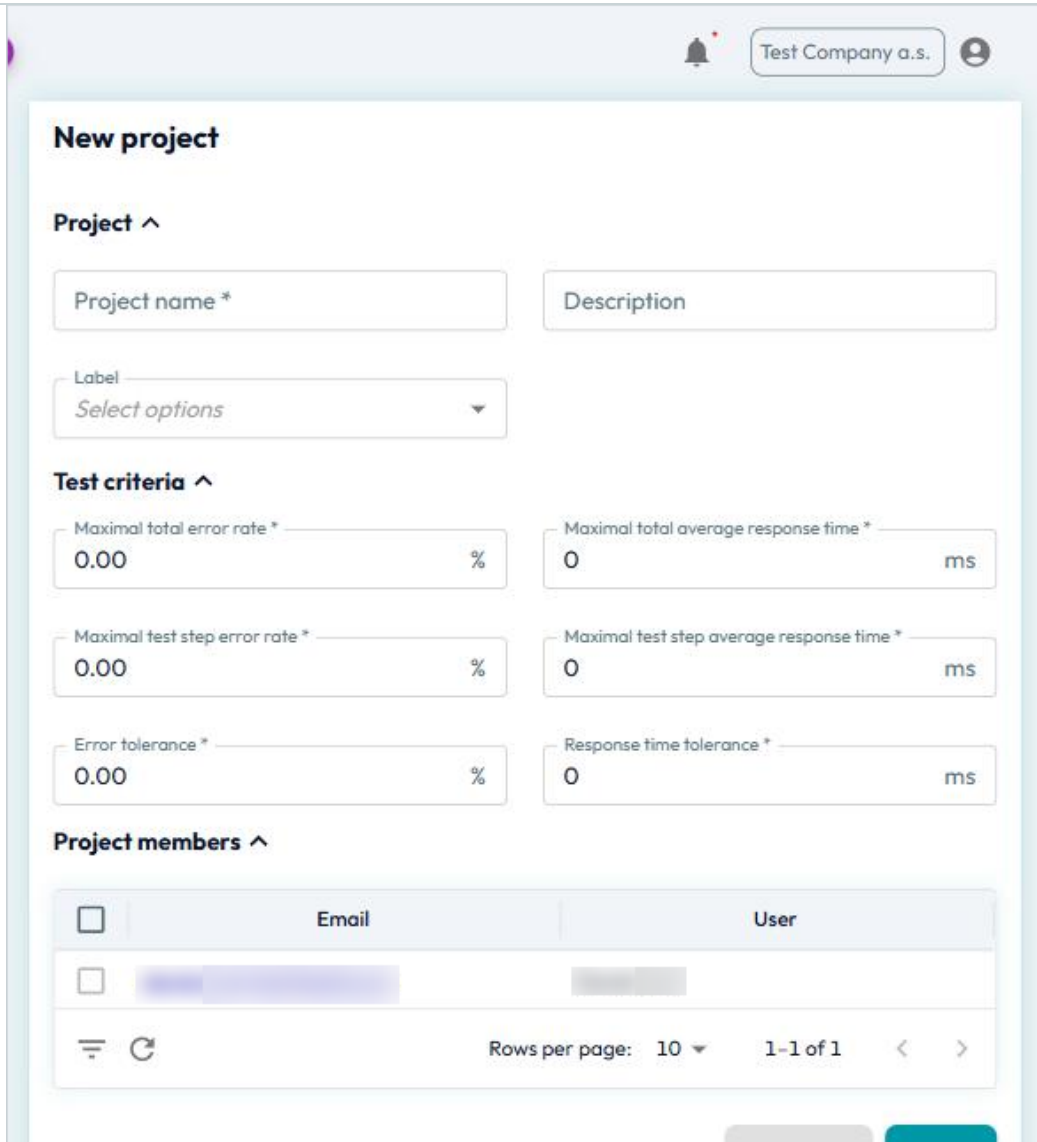


Figure 9: List of projects

Creating a project

1. In the left menu, click **Projects** and then **Create**.
2. Enter the **Project name**, an optional **Description** and select a **Label**.
3. In **Test criteria**, define the default acceptance criteria of the project: maximal total error rate (%), maximal total average response time (ms), maximal test step error rate (%), maximal test step average response time (ms), error tolerance (%) and response time tolerance (ms).
4. In **Project members**, add (**Add**) or remove (**Remove**) users who work on the project.
5. Click **Save**.



New project

Project ^

Project name *

Description

Label

Test criteria ^

Maximal total error rate * %

Maximal total average response time * ms

Maximal test step error rate * %

Maximal test step average response time * ms

Error tolerance * %

Response time tolerance * ms

Project members ^

☐	Email	User
☐	[blurred]	[blurred]

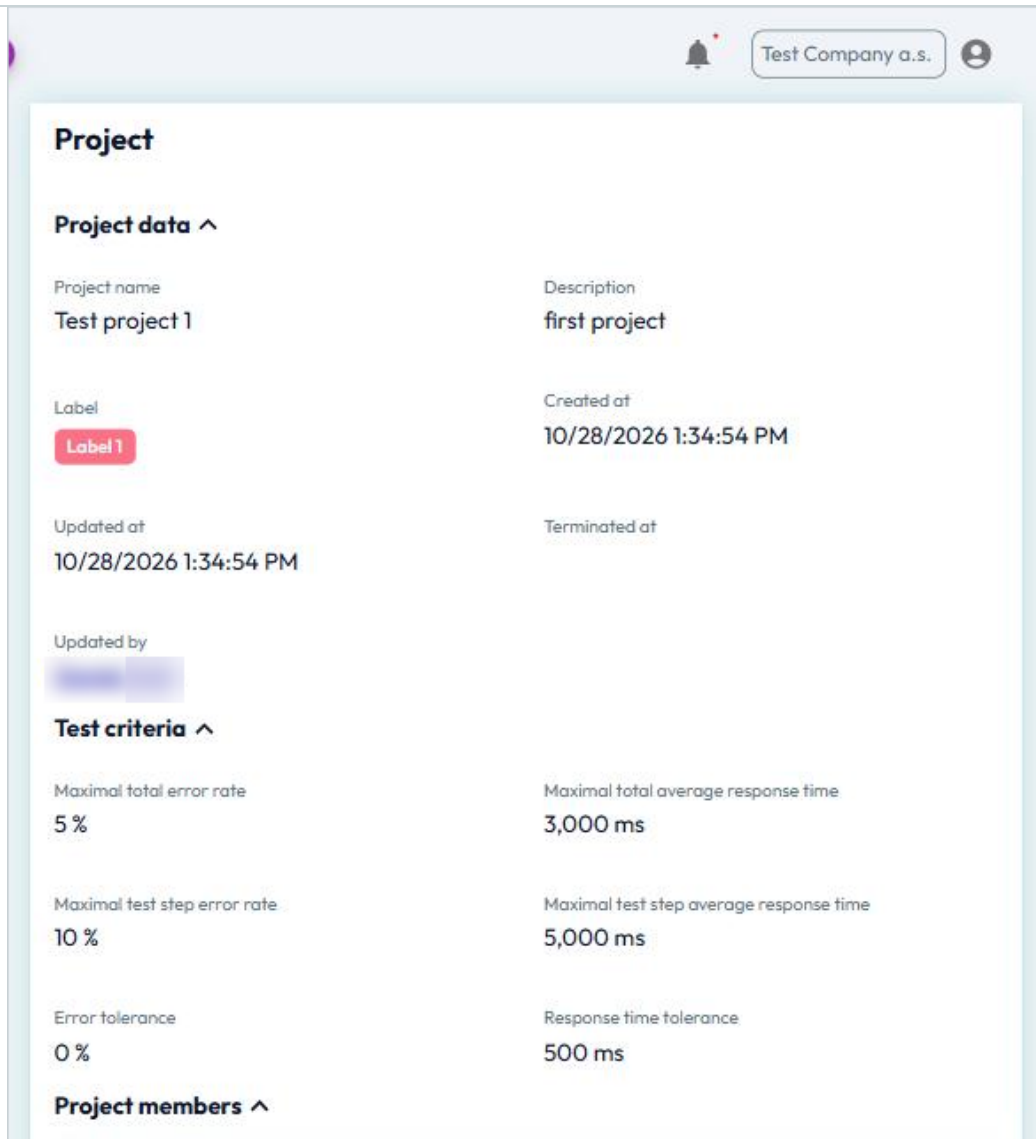
Rows per page: 10 1-1 of 1

Figure 10: Creating a new project

Project detail

Click the project name in the list to open its detail. The detail shows the project data, test criteria, project members and the tests of the project. The following actions are available:

Button	Action
Create	Create a new test in the project.
Edit	Change the project data, criteria and members.
Terminate	End the project (it becomes inactive).
Back	Return to the list of projects.





Test Company a.s.



Project

Project data ^

Project name	Description
Test project 1	first project
Label	Created at
Label 1	10/28/2026 1:34:54 PM
Updated at	Terminated at
10/28/2026 1:34:54 PM	
Updated by	
	

Test criteria ^

Maximal total error rate	Maximal total average response time
5 %	3,000 ms
Maximal test step error rate	Maximal test step average response time
10 %	5,000 ms
Error tolerance	Response time tolerance
0 %	500 ms

Project members ^

Figure 11: Project detail

15. Labels

Labels are coloured tags that help you to categorise and filter projects and tests (for example by priority, customer or release). The list of labels is available under **Labels** in the left menu, or via the **Labels** button in the lists of projects and tests.

1. Click **Labels** in the left menu and then **Create**.
2. Enter the **Label** name and an optional **Description**.
3. Click **Save**.

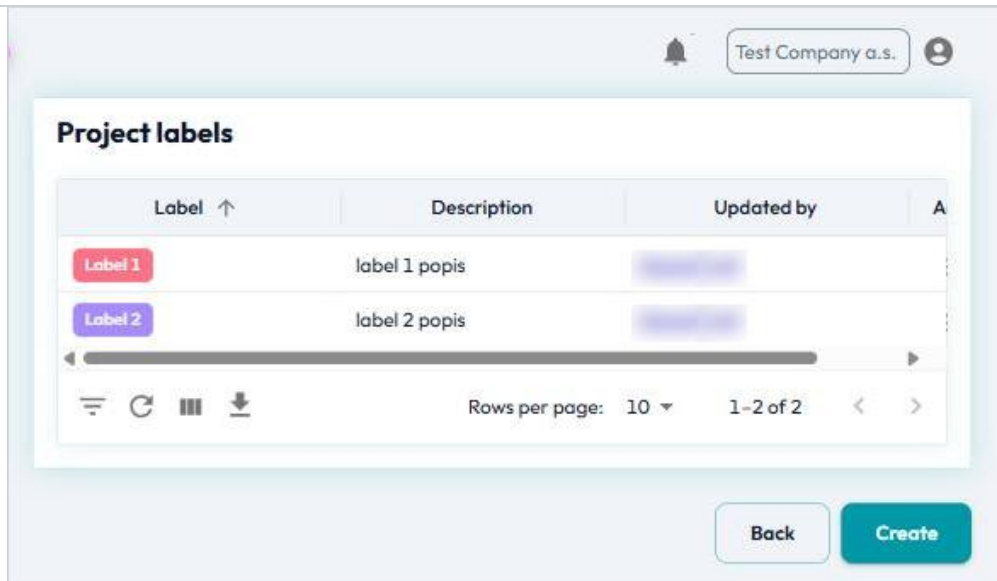


Figure 12: Project labels

Create a New Project Label

Label *

Description

Cancel

Save

Figure 13: Creating a new label

16. Tests

The **Tests** menu item contains three sub-items: **Test list**, **Test evaluations** and **Test comparisons**. A test in LoadTestLab represents a performance test with a specific configuration. Each test can be executed any number of times; repeated runs of the same test are regression runs that can be compared with each other.

16.1 Test list

The list shows all tests with their project, label, test type and application. Use **Create** to create a new test and **Labels** to manage labels.

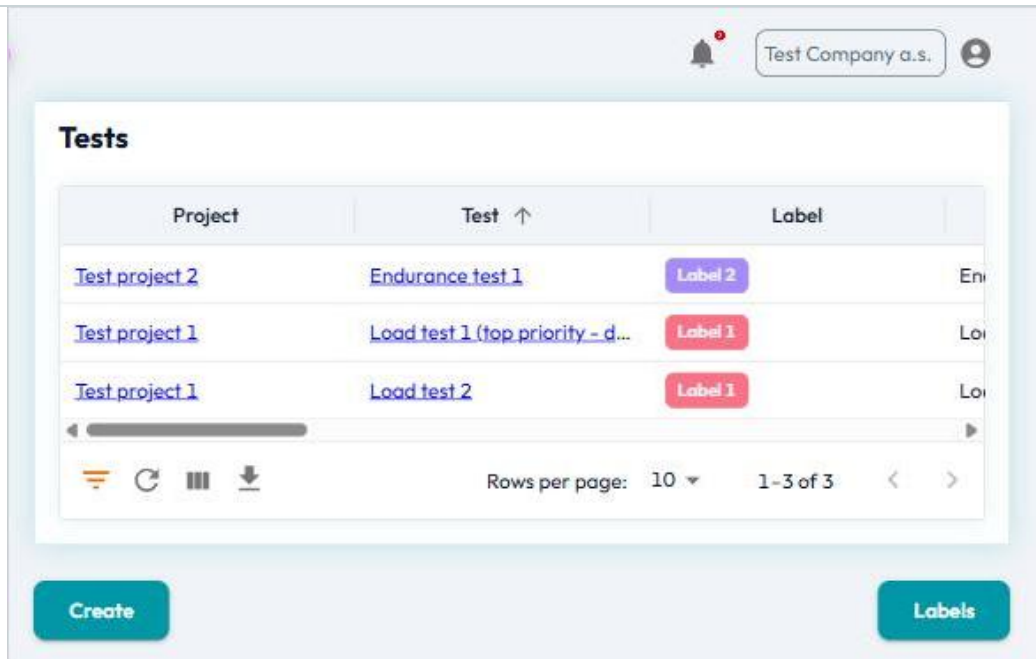


Figure 14: Test list

16.2 Creating and editing a test

Click **Create** in the test list (or **Edit** in the test detail). The form contains the following sections:

Test data – Test name, Description, Label, **Test type** (Load test, Stress test, Endurance test), Application, Application version, Environment and **Project**.

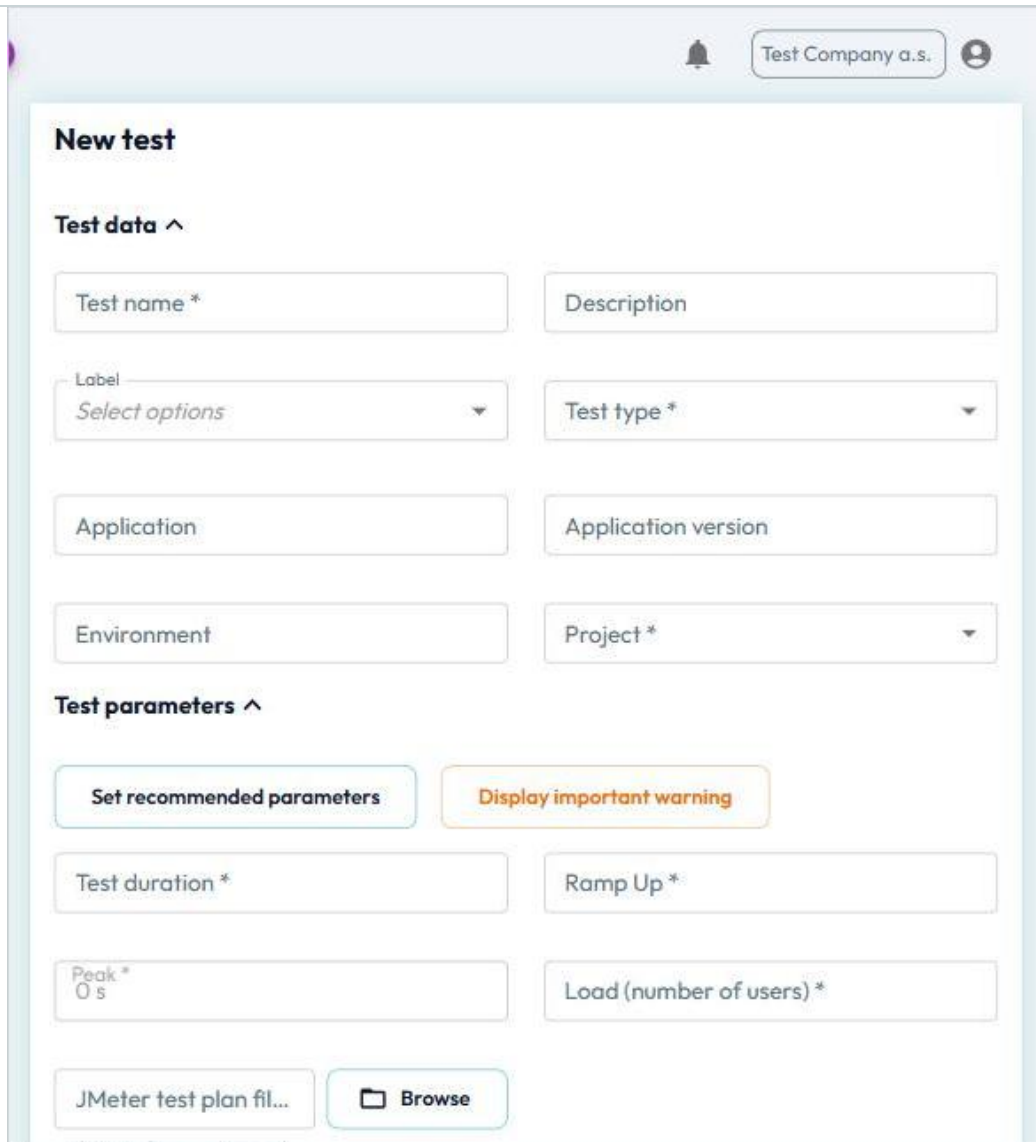


Figure 15: Creating a new test – test data and parameters

Test parameters – Test duration, Ramp Up, Peak (calculated), Load (number of users) and the **JMeter test plan file name (.jmx)**. The chart shows the load profile of the test. Only the file name is saved; the file itself is not uploaded and must be available in the Tests directory configured for the LTL Agent.

The button **Set recommended parameters** fills in recommended values according to the test type:

Test type	Test duration	Ramp Up	Load (users)
Load test	1 h	15 min	entered by the tester
Stress test	2 h	2 h	3,000
Endurance test	4 h	30 min	entered by the tester

IMPORTANT

The button **Display important warning** shows the requirements for correct integration with JMeter: your JMeter script must contain the mandatory elements described in the JMX script template, and JMeter must use the default `user.properties` configuration file in the JMeter bin directory. Both templates are available in [File templates](#).

Test schedule – select the check box to schedule automatic execution:

- **Regularity: Once** – enter the **Start date** (date and time) and click **Add**.
- **Regularity: Regularly** – enter **Valid from**, optionally **Valid to** (leave empty for unlimited validity), the **Regularity Type** (Daily, Weekly, Monthly), the **Execution time** (click **Add** for each time) and the **Time zone** for the execution time.
- **Launch method** – JMeter without proxy, JMeter with proxy, JMeter master-slave without proxy, or JMeter master-slave with proxy.



Figure 16: Test schedule

Test criteria – keep **Use project criteria** switched on to apply the project criteria, or switch it off and enter criteria valid only for this test.

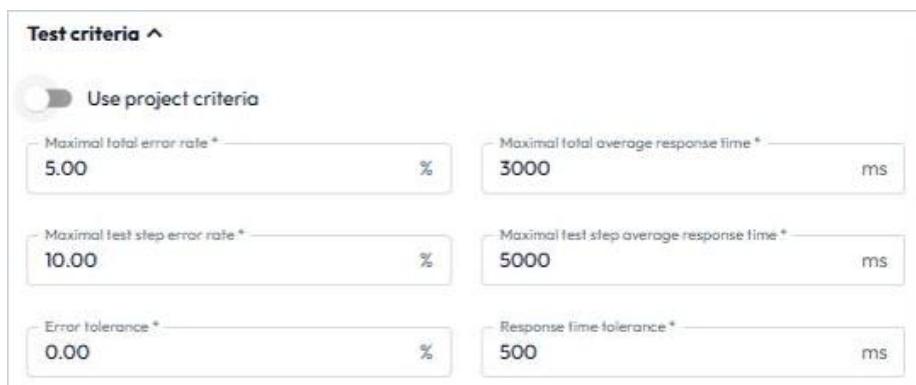


Figure 17: Test-specific acceptance criteria

Notification configuration – defines who is notified, how and about what (see Chapter 20). Click **Create**, select the **Notification type**, switch **Email notification** and/or **User notification** (in-app) on, and add registered users (**Add**) or e-mail addresses of unregistered users. The **Test plan reminder** column shows how long before a scheduled test a reminder is sent.

Notification configuration

Notification configuration data

Notification type *

Evaluated test

Registered users ^

Email notification

User notification

	Email	User
No rows		

Rows per page: 10

0-0 of 0

Remove

Add

Unregistered users v

Cancel

Save

Figure 18: Notification configuration of a test

Report configuration – defines which reports are generated and who receives them. Click **Create**, select the **Report type** and add registered or unregistered recipients. Available report types: Test evaluation, Test comparison, Daily / Weekly / Monthly statistics evaluation and Daily / Weekly / Monthly statistics comparison.

Click **Save** to save the test.

16.3 Test detail and actions

Click the test name in the list to open its detail. The detail contains the test data, test parameters with the load chart, schedule, criteria, notification and report configuration, and the lists of **Reports**, **Test evaluations** and **Test comparisons** of the test.

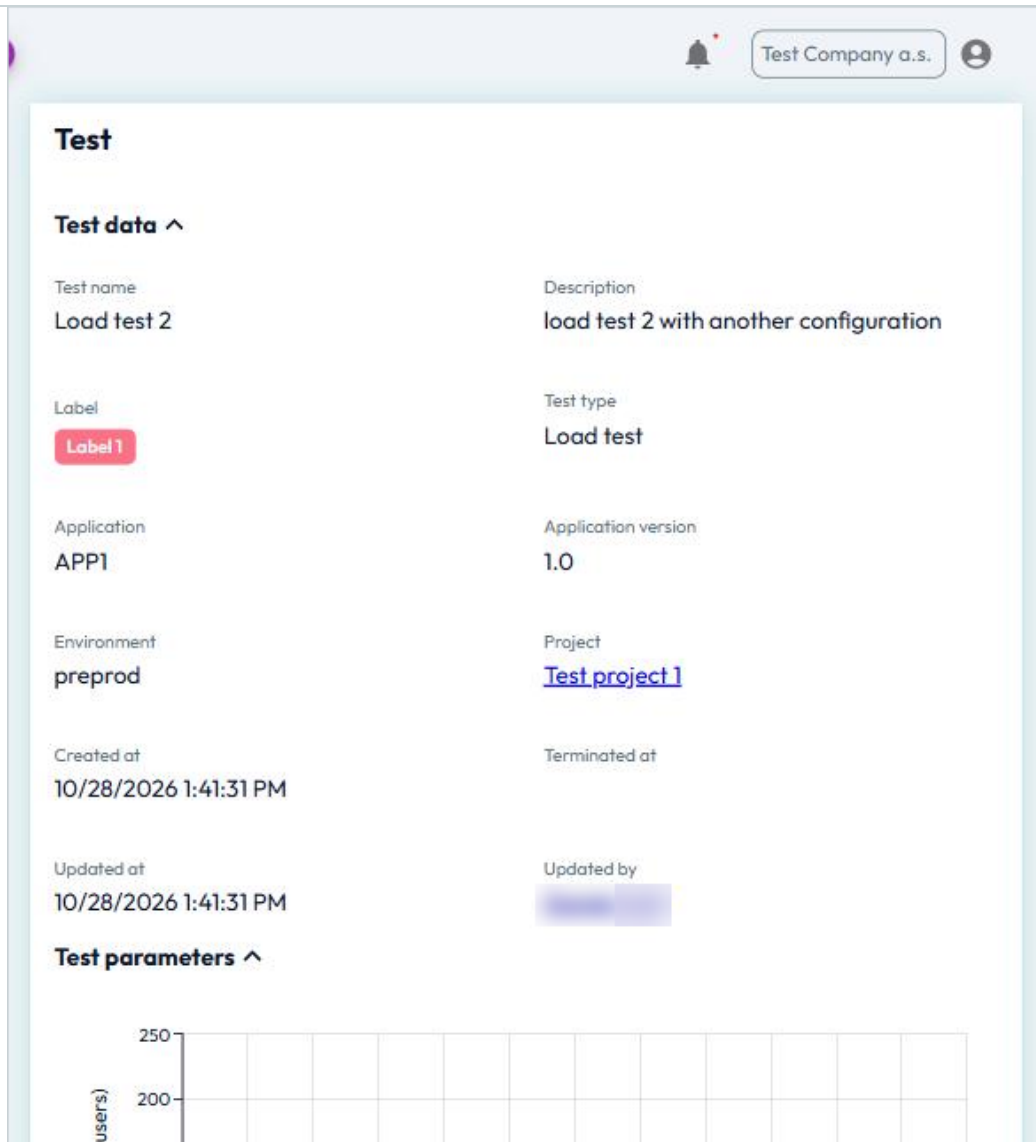


Figure 19: Test detail

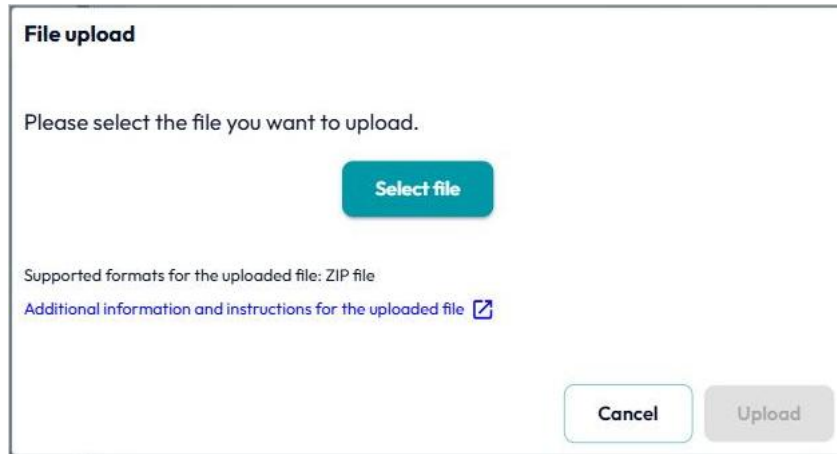


Figure 20: Action buttons in the test detail

Button	Action
Edit	Edit the test configuration.
Terminate	End the test after confirmation (the test becomes inactive).
New import	Upload measured results manually as a ZIP file (see below).
Start	Start the test immediately through the LTL Agent.
Stop	Stop the running test.
Back	Return to the test list.

Manual import of results

Click **New import**, then **Select file** and **Upload**. The uploaded file must be a **ZIP file** that contains **exactly one** CSV (or JTL) file with the measured results. This file is the output of the JMeter **Summary Report** listener, which must be included in the test plan and must have the **Filename** field filled in (for example `summary_report.csv`). JMeter must use the default `user.properties` configuration file.



File upload

Please select the file you want to upload.

Select file

Supported formats for the uploaded file: ZIP file

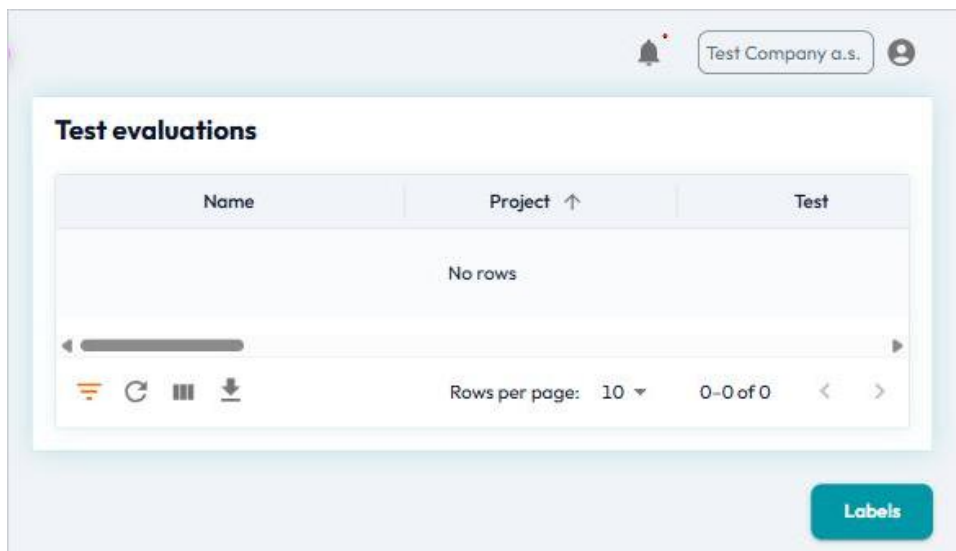
[Additional information and instructions for the uploaded file](#)

Cancel **Upload**

Figure 21: Manual upload of test results

16.4 Test evaluations

Tests > **Test evaluations** lists all evaluations of executed tests, i.e. the results of checking the measured values against the acceptance criteria. Evaluations are created automatically after each upload of results.



Test evaluations

Name	Project ↑	Test
No rows		

Rows per page: 10 0-0 of 0

Labels

Figure 22: Test evaluations

16.5 Test comparisons

Tests > **Test comparisons** lists the comparisons of test runs with the reference test, showing whether the performance has improved or deteriorated. Any run of a test can be marked as the reference test.

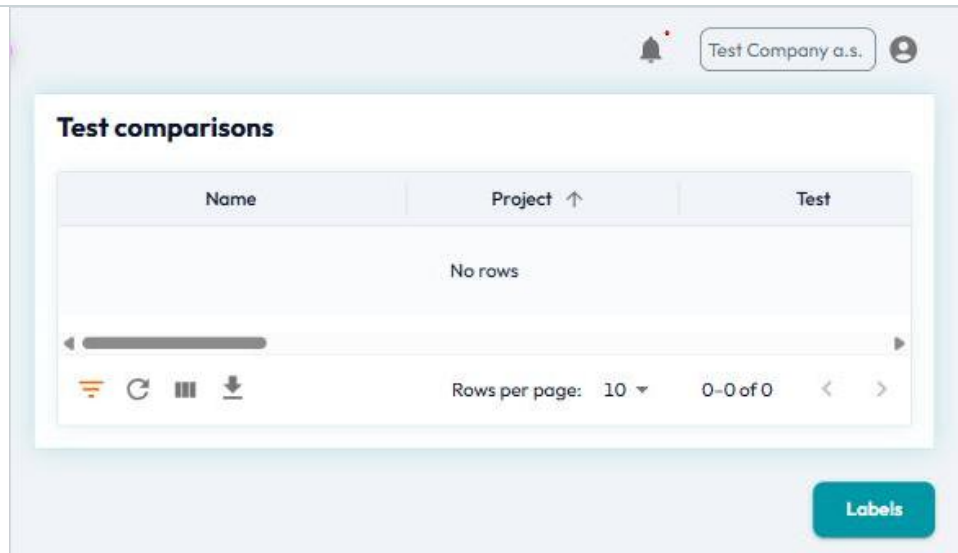


Figure 23: Test comparisons

17. Scheduled Tests

Scheduled tests shows a monthly calendar with the number of tests scheduled for each day and a list of scheduled tests in the selected period. Click **Schedule test**, select an active test and click **Confirm** to schedule it. Scheduled tests are also shown in the **What's happening** widget on the dashboard.

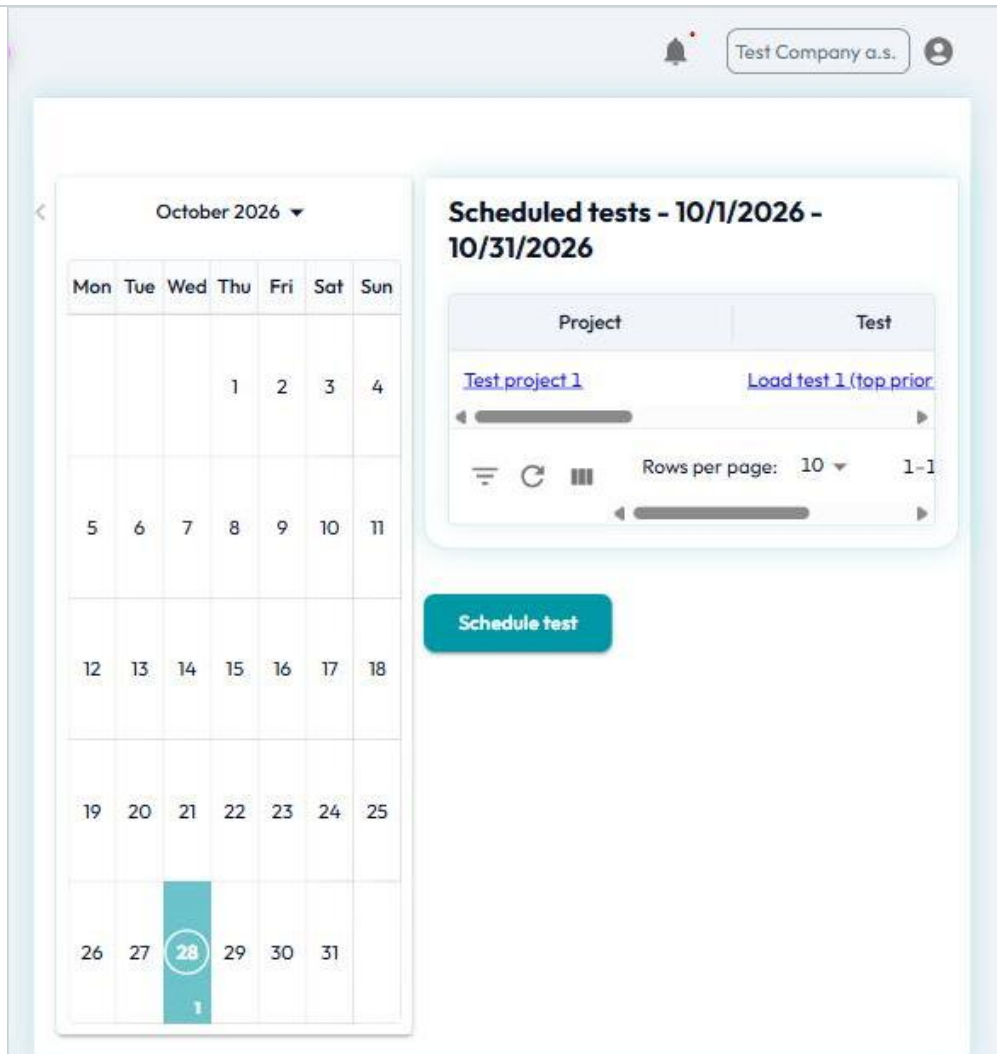


Figure 24: Calendar of scheduled tests

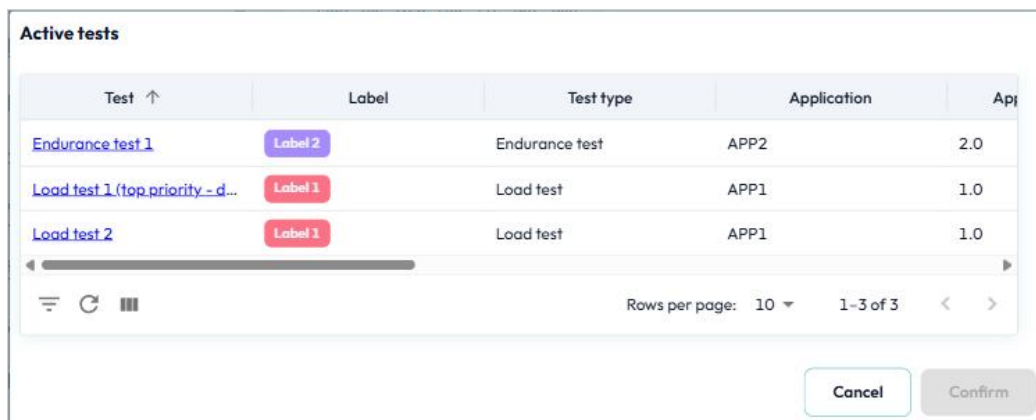


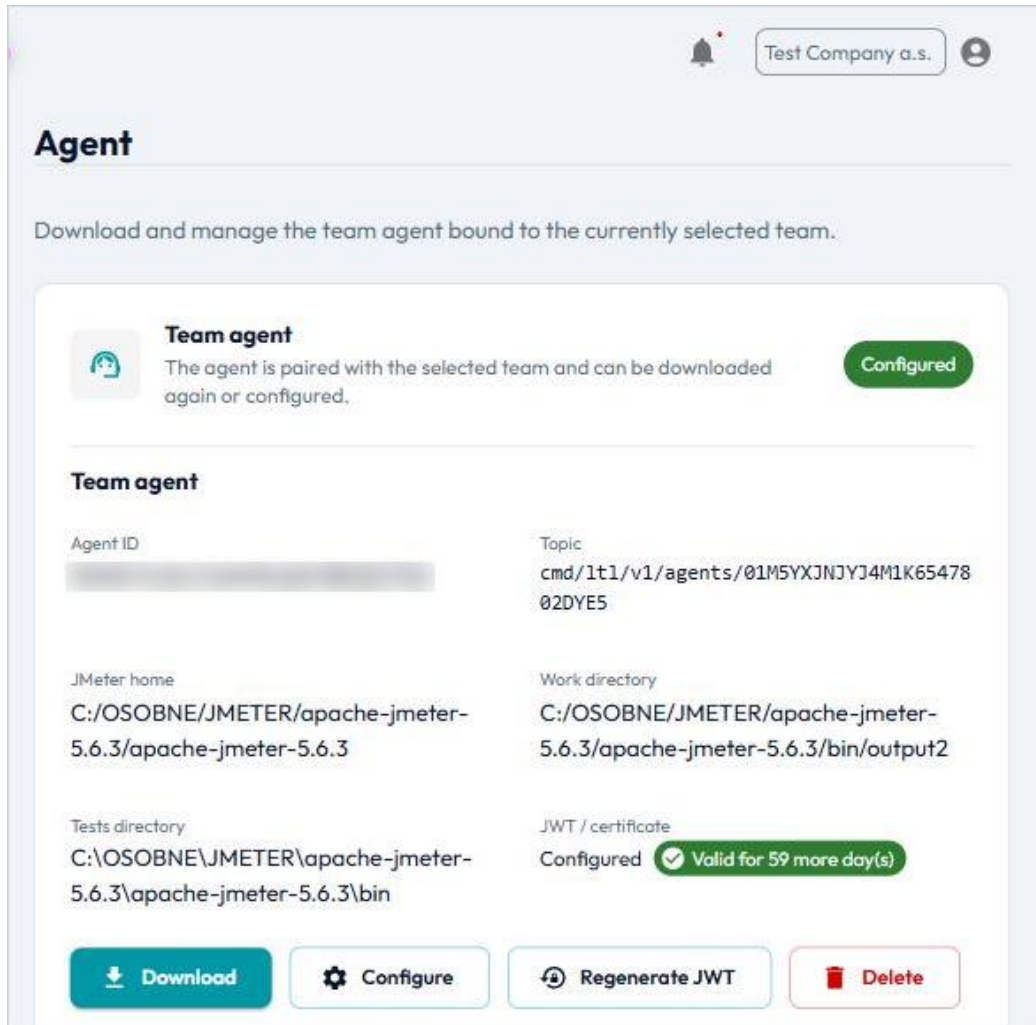
Figure 25: Selecting a test to schedule

NOTE

When scheduling, LoadTestLab warns you if another test from any project is already scheduled for the same time or if tests could overlap, because the load generator and JMeter are reserved for one test at a time.

18. Agent

Agent shows the LTL Agent of your team: agent ID, topic, JMeter home, work directory, tests directory and the status and validity of the JWT certificate. The buttons [Download](#), [Configure](#), [Regenerate JWT](#) and [Delete](#) are used to manage the agent.



Agent

Download and manage the team agent bound to the currently selected team.

Team agent
The agent is paired with the selected team and can be downloaded again or configured. Configured

Team agent

Agent ID [Masked]	Topic cmd/1t1/v1/agents/01M5YXJNJYJ4M1K6547802DYE5
JMeter home C:/OSOBNE/JMETER/apache-jmeter-5.6.3/apache-jmeter-5.6.3	Work directory C:/OSOBNE/JMETER/apache-jmeter-5.6.3/apache-jmeter-5.6.3/bin/output2
Tests directory C:\OSOBNE\JMETER\apache-jmeter-5.6.3\apache-jmeter-5.6.3\bin	JWT / certificate Configured Valid for 59 more day(s)

[Download](#) [Configure](#) [Regenerate JWT](#) [Delete](#)

Figure 26: Agent page (the agent ID is masked)

The complete procedure for creating, configuring, installing and using the LTL Agent is described step by step in **Part IV** of this manual.

19. Users

Users is used to manage the users of your team. The list shows the e-mail, name, role and status of each user.

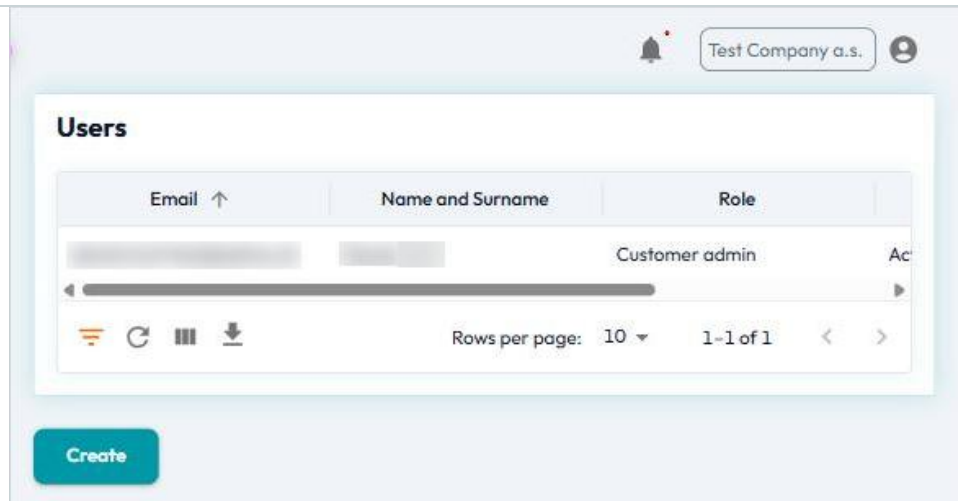


Figure 27: List of users

Creating a user

Click **Create** and enter the **Subscription type** (Free trial, Monthly fee, Yearly fee), **Name and Surname**, **Email**, **Preferred communication language** and **Role**. Click **Save**.

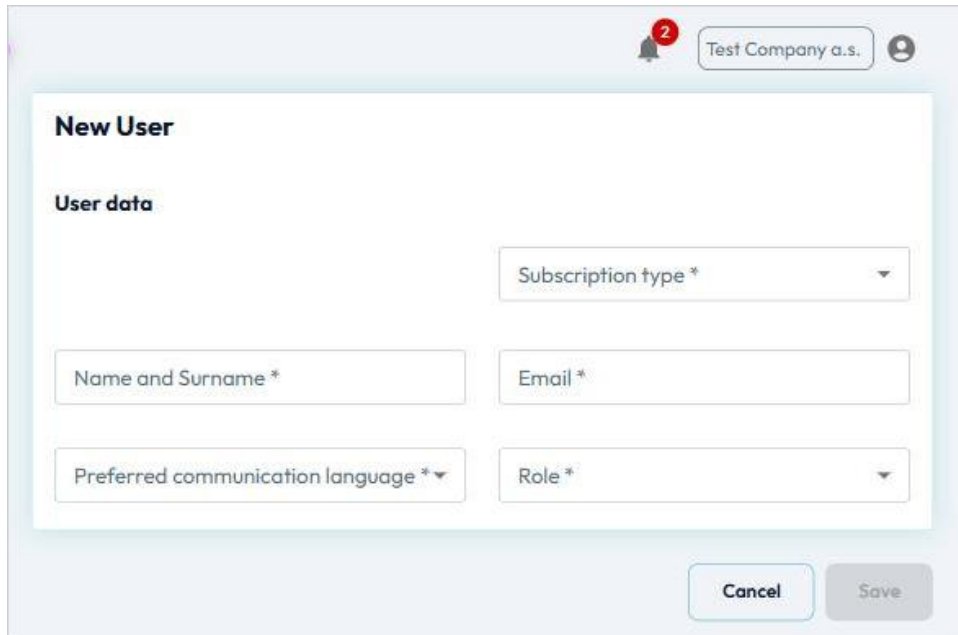
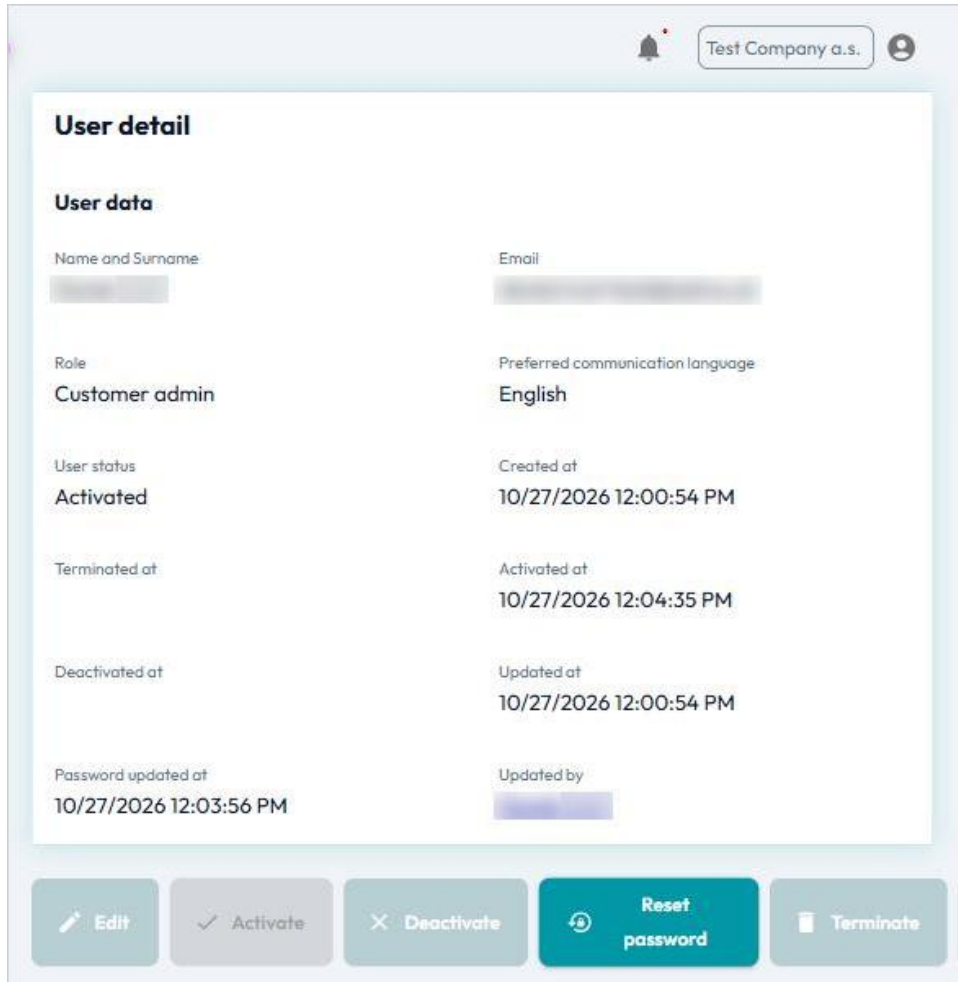


Figure 28: Creating a new user

Role	Typical use
Customer admin	Administrator of the team: manages users, subscription and all data of the team.
Performance tester	Creates and runs tests, manages schedules and evaluates results.
Manager	Monitors projects, tests and results.
Free trial user	User of the free trial version.
Test report listener	Receives test reports and notifications.

User detail

Click a user to open the detail with the user data, status and history (created, activated, deactivated, terminated, password updated). Available actions: **Edit**, **Activate**, **Deactivate**, **Reset password**, **Terminate** and **Restore**.



User detail

User data

Name and Surname	Email
Role	Preferred communication language
Customer admin	English
User status	Created at
Activated	10/27/2026 12:00:54 PM
Terminated at	Activated at
	10/27/2026 12:04:35 PM
Deactivated at	Updated at
	10/27/2026 12:00:54 PM
Password updated at	Updated by
10/27/2026 12:03:56 PM	

[Edit](#)
[Activate](#)
[Deactivate](#)
[Reset password](#)
[Terminate](#)

Figure 29: User detail

20. Notifications

LoadTestLab informs users about important events automatically. Notifications are delivered in two ways:

- **In the application** – shown under the bell icon in the top bar and in **Notifications** in the left menu,
- **By e-mail** – sent to the user's e-mail address.

Which notifications a user receives and in what form is set per test in **Notification configuration** (see Chapter 16.2).

Notifications in the top bar

The bell icon shows the number of unread notifications. Click it to display the latest notifications; **View all notifications** opens the complete list.

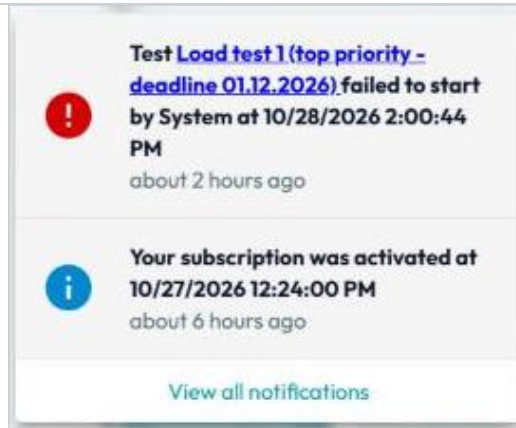


Figure 30: Latest notifications under the bell icon

Notifications page

Notifications shows all notifications on the tabs **All** and **Unread**. Using the menu of each notification you can **Mark as read** or **Delete** it; the menu above the list provides **Delete all notifications**. Links in a notification open the related test.

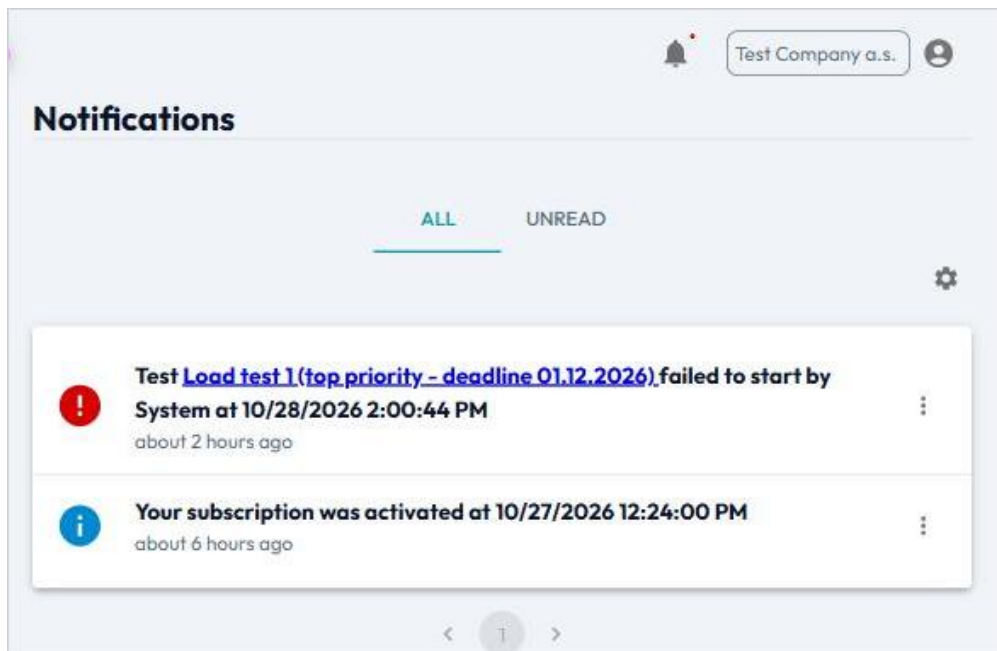


Figure 31: Notifications

Notification types

Area	Notification types
Tests	Test plan reminder, Start test, Stop test, Start test failed, Stop test failed, Evaluated test, Comparative test, Different load params, Evaluation file invalid format – missing required header names
Agent	Agent JWT expiring, Agent JWT expired
Subscription and team	Subscription was activated, Subscription payment has failed, Subscription has expired, Subscription will cancel, Subscription was canceled, Subscription resumes, Team will soon terminate
Users	User permission changed

21. Reports

Reports lists all generated reports with the report name, report type and test. Reports are generated automatically according to the **Report configuration** of each test and are listed here together with the reports of all tests of your team.

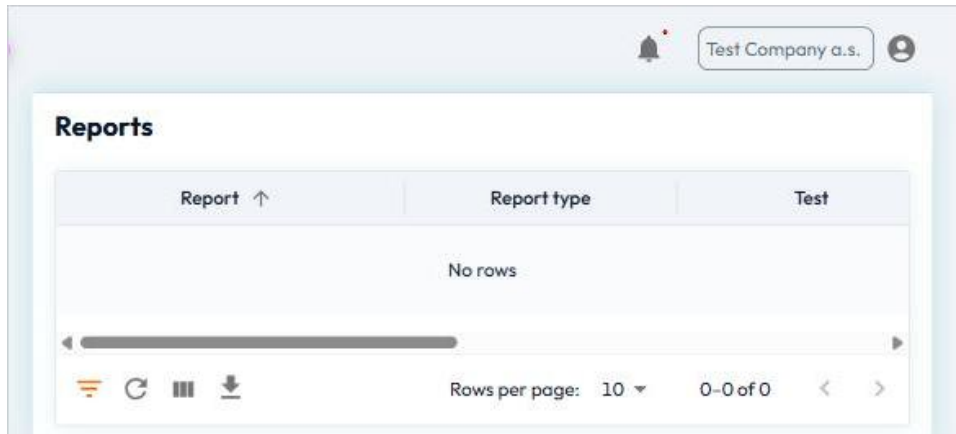


Figure 32: Reports

Available report types: **Test evaluation**, **Test comparison**, **Daily statistics evaluation**, **Daily statistics comparison**, **Weekly statistics evaluation**, **Weekly statistics comparison**, **Monthly statistics evaluation** and **Monthly statistics comparison**.

22. File Templates

File templates contains files that you can download and use with JMeter and the LTL Agent. Click the download icon in the row of a template to download it.

Template	Purpose
user (Properties)	JMeter configuration file user.properties with the required logging settings. Save it in the JMeter bin directory (replace the existing file) and restart JMeter.
jmeter_jmx_script_template (JMX)	Sample JMeter .jmx script with a preconfigured Thread Group, parameters and logging. Use it as inspiration when creating your own scripts.

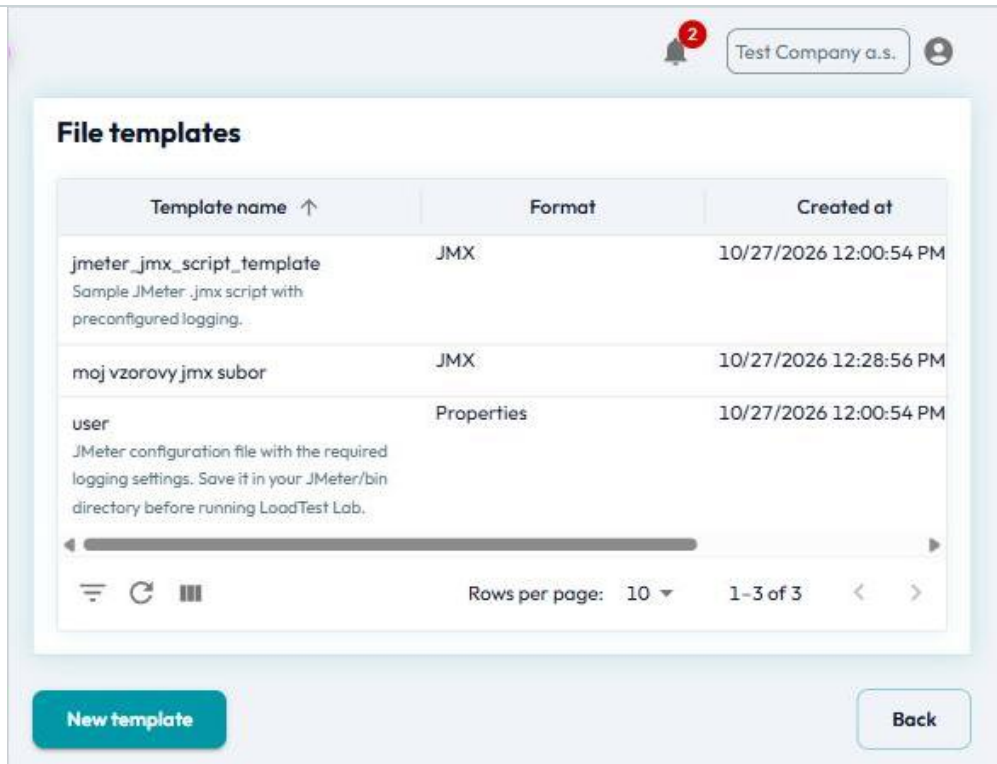
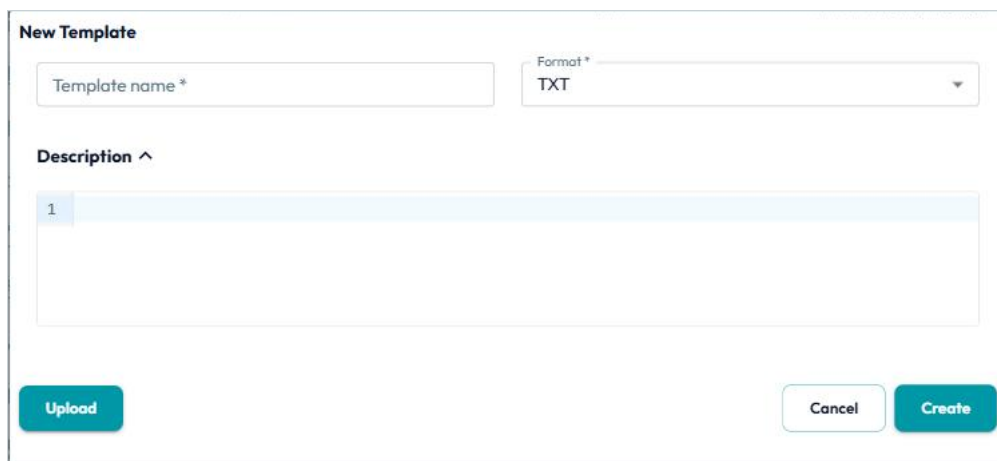


Figure 33: File templates

You can also create your own templates: click **New template**, enter the **Template name**, select the **Format** (JMX, Properties, BAT, BASH, TXT, ZIP), enter the content in the **Description** editor or click **Upload** to upload a file, and click **Create**.



The screenshot shows the 'New Template' form. It has a title 'New Template' at the top left. Below it are two input fields: 'Template name *' and 'Format *' (a dropdown menu currently showing 'TXT'). Below these is a 'Description ^' section with a text area. At the bottom of the form are three buttons: 'Upload' (in a teal box), 'Cancel' (in a light blue box), and 'Create' (in a teal box).

Figure 34: Creating a new file template

23. Subscription

Subscription shows your current plan and its status (for example **Basic Plan – Active**) and the **Subscription history** with the subscription type, validity, number of users and payment method.

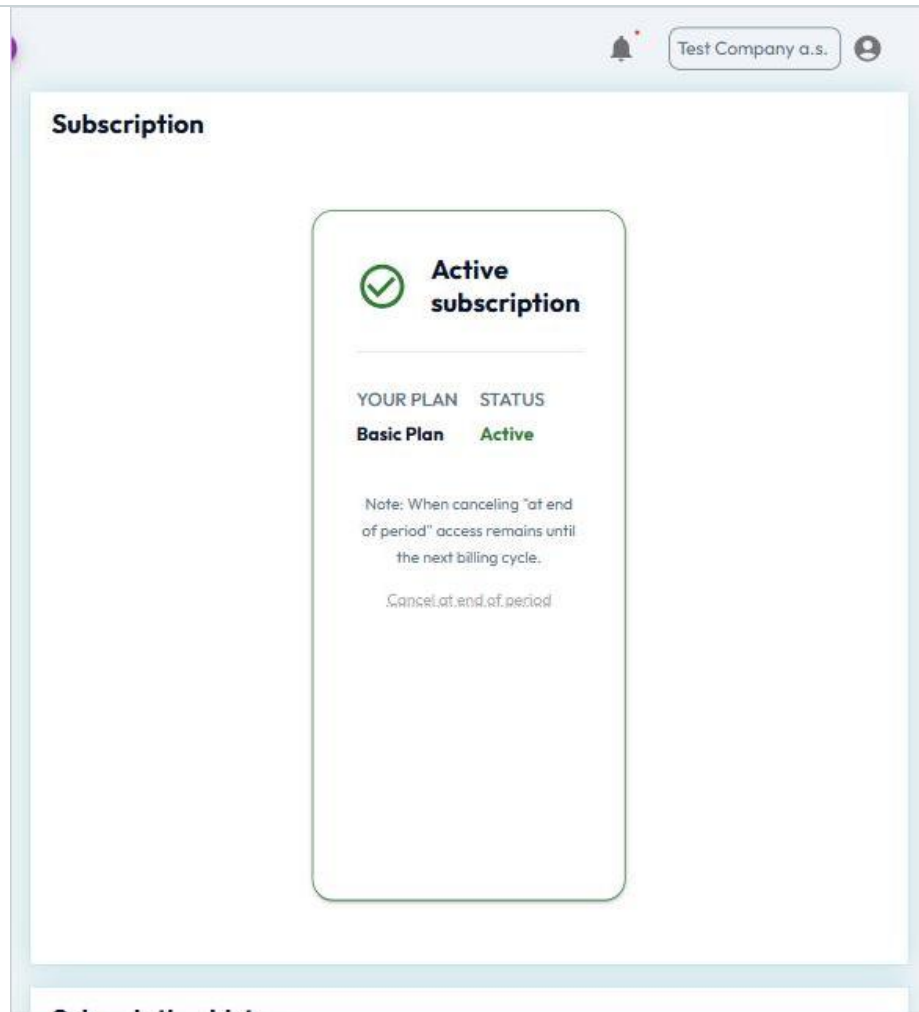


Figure 35: Subscription

To end the subscription, click **Cancel at end of period**. Access to the application remains available until the end of the current billing period. Payments for the subscription are processed through **Stripe**; you are informed about the activation, renewal, failed payment, expiry or cancellation of the subscription by notifications.

24. Invoices

Invoices lists the invoices for your subscription with the invoice number, issue date, subscription validity and number of subscription users.

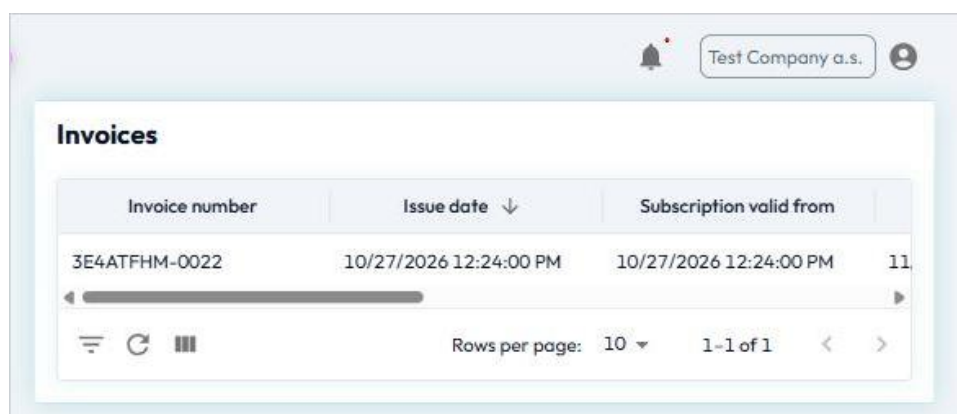


Figure 36: Invoices

25. Help

Help currently shows the application information, including the **App version**.

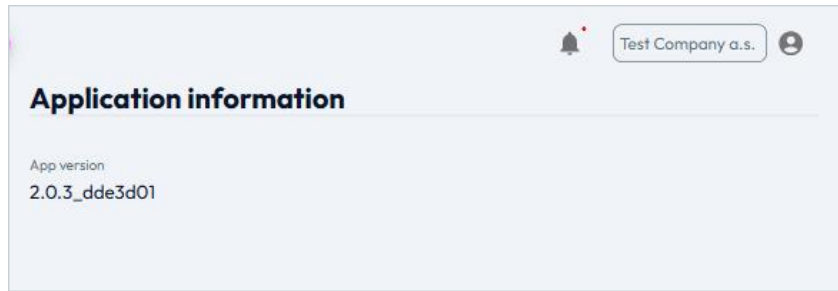


Figure 37: Help – application information

NOTE

Coming soon. Online help and further guidance will be available in this section. The description of this section is currently being prepared and will be added in a future version of this manual.

26. User Account Menu

Click the user icon in the upper-right corner to open the user account menu.

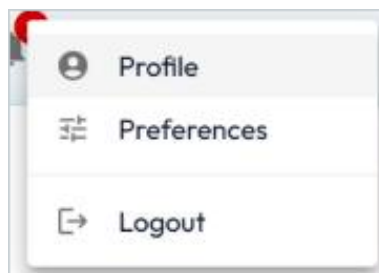
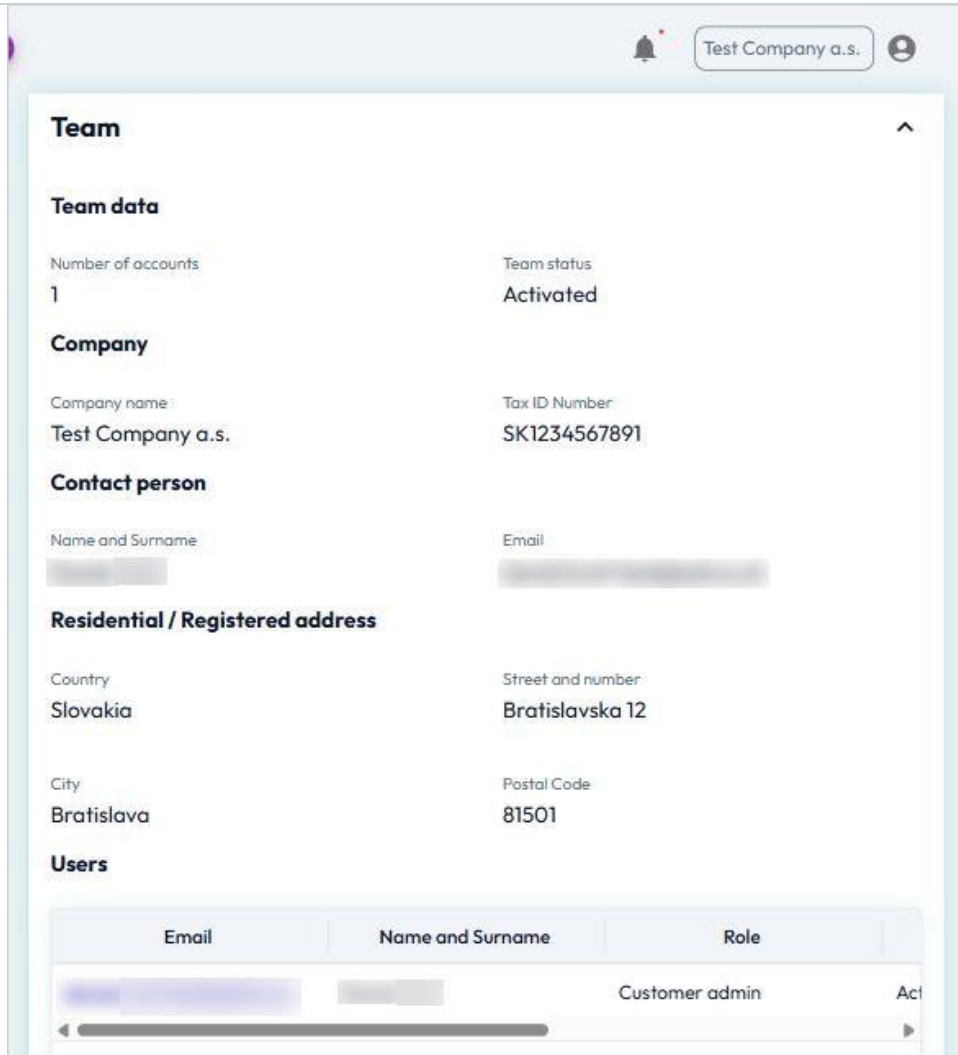


Figure 38: User account menu

Profile

Profile consists of two sections:

- **Team** – team data (number of accounts, team status), company (name, tax ID number), contact person, residential or registered address and the list of users with role, status, 2FA login and daily backup.
- **User** – your user data (name, e-mail, preferred communication language) with the actions **Change password**, **Edit** and **Delete account**.



Team

Team data

Number of accounts: 1

Team status: Activated

Company

Company name: Test Company a.s.

Tax ID Number: SK1234567891

Contact person

Name and Surname: [Masked]

Email: [Masked]

Residential / Registered address

Country: Slovakia

Street and number: Bratislavská 12

City: Bratislava

Postal Code: 81501

Users

Email	Name and Surname	Role	
[Masked]	[Masked]	Customer admin	Act

Figure 39: Profile – team section (personal data masked)

Preferences

Preferences allow you to set the **Preferred theme** (for example Same as system), the application **Language** and the **Time zone** used for displaying dates and times.

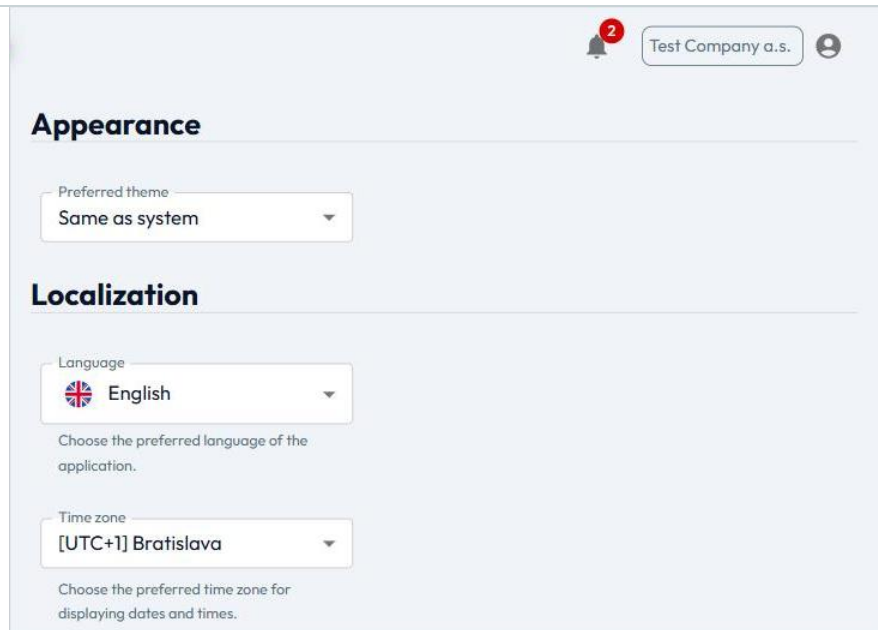


Figure 40: *Preferences*

Logout

Logout signs you out of the application. For security reasons, you are also signed out automatically after a period of inactivity.

PART IV

Performing Tests with the LTL Agent – Step by Step

This part describes the complete procedure from creating the LTL Agent to evaluating test results. Steps 1 to 4 are performed only once (and again after any change of the agent configuration); steps 5 to 7 are repeated for every test.

27. Step 1 – Creating the LTL Agent

1. Log in to LoadTestLab.
2. In the left menu, click **Agent**.
3. On the right-hand side of the application, click the **+ Create** button.

28. Step 2 – Configuring the LTL Agent

Click **Agent** in the left menu and then . Complete the following fields in the dialog:

Field	Description
JMeter home	Path to the main JMeter directory on the load generator. Do not enter the path to the JMeter bin directory; enter only the path to the main JMeter directory.
Work directory	Directory where JMeter test outputs are stored during the test. The LTL Agent uploads them to LoadTestLab automatically after each test. Typically the output directory within the JMeter bin directory; the agent creates it if it does not exist.
Tests directory	Directory containing all your JMeter .jmx files used in the tests. Typically the tests directory within the JMeter bin directory; the agent creates it if it does not exist.

The **Topic** is generated automatically and cannot be changed. Click .

Agent configuration

Topic is generated automatically and cannot be changed by the user.

Topic:
cmd/ltl/v1/agents/01M5YXJN3YJ4M1K6547802DYE5

JMeter home *
C:/OSOBNE/JMETER/apache-jmeter-5.6.3/apache-jmeter-5.6.3

Work directory *
C:/OSOBNE/JMETER/apache-jmeter-5.6.3/apache-jmeter-5.6.3/bin/outp

Tests directory *
C:\OSOBNE\JMETER\apache-jmeter-5.6.3\apache-jmeter-5.6.3\bin

JWT / certificate

Cancel
Confirm

Figure 41: Agent configuration dialog (the JWT certificate is masked)

IMPORTANT

A new LTL Agent must be downloaded after **every** change of the agent configuration, including the first configuration of a new agent.

29. Step 3 – Downloading the LTL Agent

Click **Agent** in the left menu and then .

30. Step 4 – Installing and Running the LTL Agent

1. Save the downloaded .zip file on the load generator, preferably in the JMeter **bin** directory.
2. Extract the .zip file. No further installation is required.
3. Start the agent: on **Windows** run **run.bat**; on **Linux** run **run.sh**.

It is not necessary to start JMeter. The LTL Agent has no graphical user interface; only a command-line window is displayed, showing all current activities of the agent (test start, test stop, test configuration, etc.) and any error messages.

IMPORTANT

Before starting a test, make sure that the LTL Agent is running and that there are **no error messages** in its command-line window. Remote execution of tests works only when the agent runs without errors.

TIP

Switching off or restarting the load generator also stops the LTL Agent. We recommend adding the LTL Agent to the applications that start automatically with the operating system.

31. Step 5 – Setting Up the Performance Test

a) Settings in LoadTestLab

Open **Tests** > **Test list**, select the test and click  (or create a new test, see Chapter 16.2).

- In **Test parameters**, set the **Test duration**, **Ramp Up** and **Load (number of users)** and select the **JMeter test plan file name (.jmx)**. The LTL Agent looks for this file in the **Tests directory** from the agent configuration.
- In **Test criteria**, keep the project criteria or define criteria for this test and all its regression runs.
- In **Notification configuration** and **Report configuration**, define who receives which notifications and reports.
- Optionally, schedule the test in **Test schedule** (see Chapter 32).

Click  .

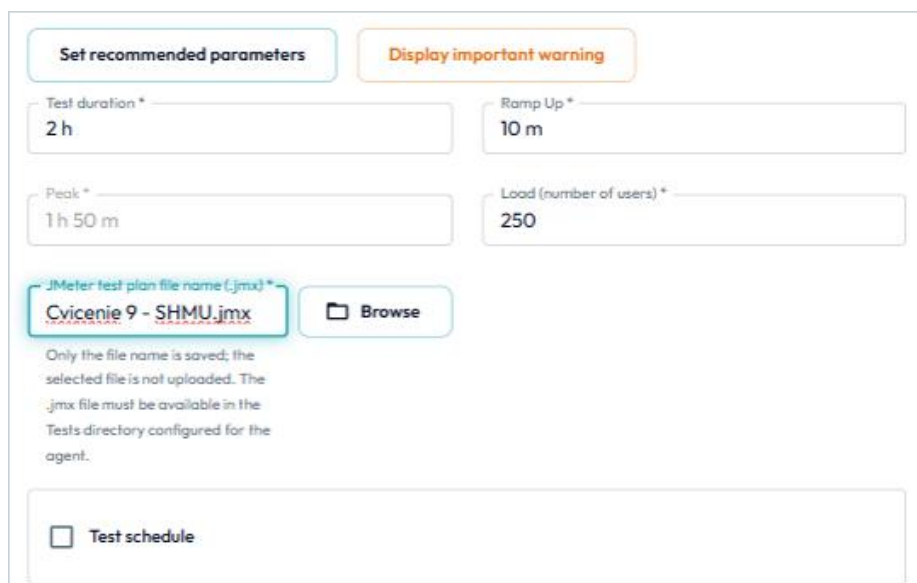


Figure 42: Test parameters

b) Settings in the JMeter script

Your JMeter .jmx script does not need to be modified, provided that you use the **Summary Report** listener for logging and the recommended `user.properties` file (see Chapter 22). The LTL Agent sets the test parameters and processes the results autonomously.

In specific cases, you may use the following properties in your script:

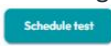
Parameter	JMeter expression
duration	<code>\${__P(duration, 60)}</code>
rampUp	<code>\${__P(rampUp, 1)}</code>
fileName	<code>\${__P(fileName)}</code>
testId	<code>\${__P(testId)}</code>
threads	<code>\${__P(threads, 1)}</code>

TIP

A sample script with a preconfigured Thread Group, parameters and logging is available in [File templates](#) as `jmeter_jmx_script_template`.

32. Step 6 – Starting and Scheduling Tests

Automatic (scheduled) start

In the test edit form, select **Test schedule**, set the **Regularity**, the start date and time (or the regular execution settings), click , select the **Launch method** and click . Alternatively, click  in **Scheduled tests**. Scheduled tests are shown on the Dashboard and in the calendar.

NOTE

LoadTestLab warns you in advance if another test is already scheduled for the same time window, because JMeter and the load generator are reserved for that test.

Two tests can run simultaneously; however, the second test must be started manually without the LTL Agent, and its results must be zipped and uploaded manually.

Manual start

Open the test detail (**Tests** > **Test list**, select the test) and click .

33. Step 7 – Stopping, Results, Evaluation and Notifications

- **Automatic stop** – the test stops automatically according to its **Test parameters**.
- **Manual stop** – click  in the test detail.
- **Upload of results** – the LTL Agent uploads the results automatically after each test. If needed, you can upload them manually with  (see Chapter 16.3).
- **Evaluation and comparison** – after each upload, LoadTestLab automatically generates and archives reports and charts, evaluates the acceptance criteria and compares the run with the reference test. Results are available in **Tests** > **Test evaluations** and **Tests** > **Test comparisons**.
- **Notifications** – sent automatically by e-mail and in the application according to the **Notification configuration** of the test.

NOTE

Any run of a test can be marked as the **reference** test. All subsequent runs with the same parameters are compared with it, so you can see in detail whether performance has improved or deteriorated.

34. Changing the LTL Agent Configuration

1. Click **Agent** in the left menu and then .
2. Change the configuration and click .
3. Click , install the new agent on the load generator and delete the original agent.

IMPORTANT

A new LTL Agent must be downloaded after every change of the agent configuration.

35. Generating a New JWT Certificate

The JWT certificate is valid for 60 days and is refreshed automatically. You are notified when it is about to expire (**Agent JWT expiring**) or has expired (**Agent JWT expired**). To generate a new certificate manually (for example for security reasons or when an employee or customer changes):

1. Click **Agent** in the left menu and then . A new certificate valid for 60 days is generated and configured automatically.
2. Click , install the new agent on the load generator and delete the original agent.

36. Deleting the LTL Agent

1. Click **Agent** in the left menu, then  and **Confirm**.
2. Delete the LTL Agent from the load generator, as communication with it is terminated.

Appendix

37. Glossary

Term	Meaning
Load generator	Computer or server with JMeter and the LTL Agent from which the load is generated.
LTL Cloud	The LoadTestLab web application and its cloud infrastructure.
LTL Agent	Application on the load generator that executes tests in JMeter on behalf of LoadTestLab and uploads the results.
.jmx file	JMeter test plan (script) created and debugged by the tester in JMeter.
Ramp Up	Period during which the number of virtual users increases to the target load.
Peak	Period during which the full load is applied (test duration minus ramp-up).
Acceptance criteria	Limits for the error rate and average response time used to evaluate a test.
Reference test	Selected test run with which other runs of the same test are compared.
Regression run	Repeated execution of the same test with the same parameters.
JWT certificate	JSON Web Token (RFC 7519) used to authenticate the LTL Agent; valid for 60 days.
Non-GUI mode	Running JMeter from the command line without its graphical interface, recommended for load tests.