



How to use the GP4L Testbed?

User guide

Sonja Filiposka, UKIM

WP6T2

GP4L infoshare, virtual

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GN5-2

Agenda

- Short user manual on how to get access to the GP4L testbed
- Step by step instructions
- Policies, procedures, standardized practices

Who can use the GP4L testbed?

Any interested party from the R&E community can request a reservation of some or all of the available GP4L testbed resources

Access to GP4L devices in testbed

All devices are accessed via **VPN** and a Bastion machine

You request **SSH access** to the **Bastion**

- From there you can ssh to the devices

SSH access request = **make a reservation request and get approval**

Fair use policy

The GP4L testbed should be used fairly by all interested parties

To ensure that nobody will monopolise the use of the testbed

- each reservation is manually analysed, and
- if needed more information is requested from the user.

Only approved reservations get access to the GP4L testbed environment.

Current settings of the reservation system

- Minimum amount of time for a reservation is 1 hour
- Maximum reservation time is set to 90 days
- Multiple reservations can be made for longer periods

Step 1: Request a VPN profile

To obtain the VPN profile **send an email to gp4l-admin@lists.geant.org**

- Who are you are
- Where are you from (institution) and
- Why you would like to use GP4L

We will

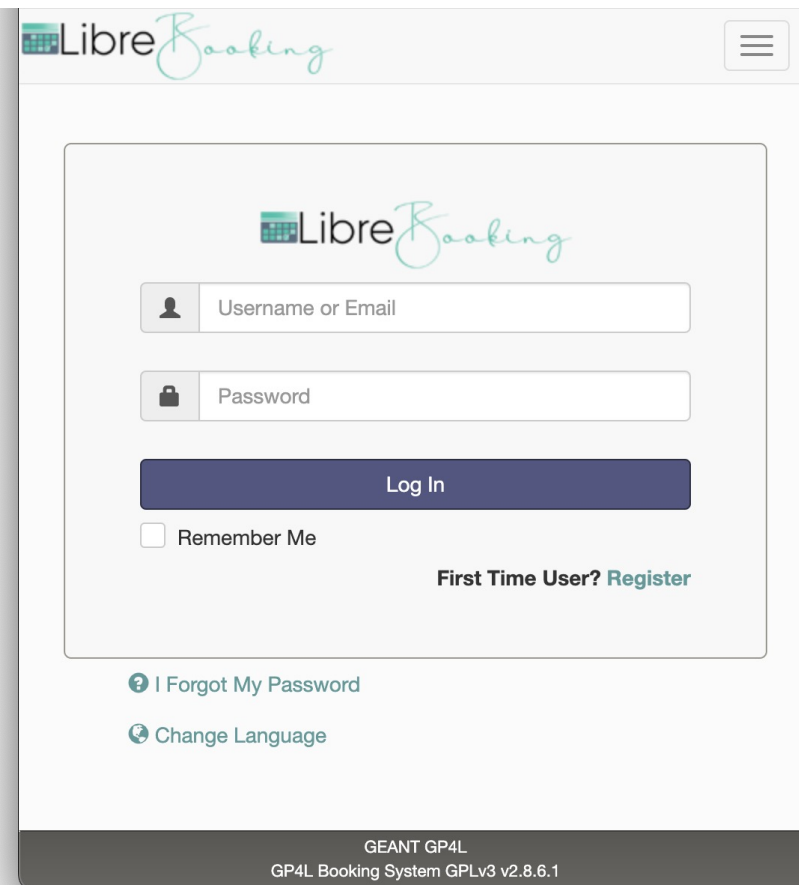
- Process your request
- Create and send you a VPN profile for personal use
- Guide you through the process of
 - creating an NMaaS profile
 - testing your access to the reservation system

Step 2: Go to the Reservation System

Connect to the VPN

Go to <https://book.gp4l.nmaas.eu/>

Click Register



The screenshot shows the Libre Booking login interface. At the top left is the Libre Booking logo. Below it is a central login form with the following elements:

- A text input field labeled "Username or Email" with a person icon on the left.
- A text input field labeled "Password" with a lock icon on the left.
- A dark blue "Log In" button.
- A checkbox labeled "Remember Me".
- A link for "First Time User? Register".
- A link for "I Forgot My Password".
- A link for "Change Language".

At the bottom of the page, there is a footer with the text: "GEANT GP4L" and "GP4L Booking System GPLv3 v2.8.6.1".

Step 3: Create a new user

Fill out the required fields

Put your SSH public key in the Bastion info field

Click Register

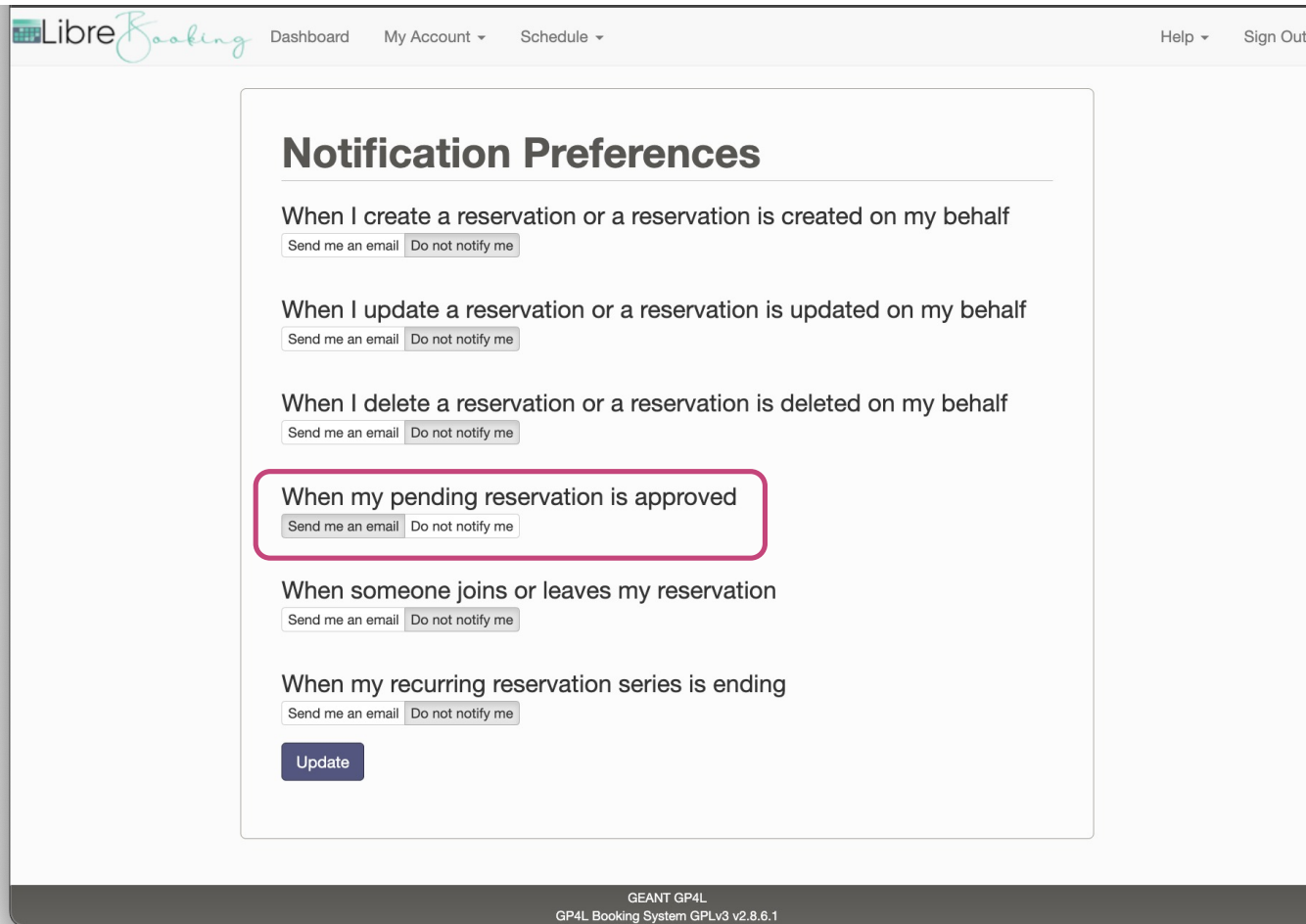
we will be notified that a new user has been created

The screenshot shows the 'Register a New Account' form in the Libre Booking system. The form is titled 'Register a New Account' and contains the following fields:

- Username:** elysium ✓
- Email:** elysium.sf@gmail.com ✓
- Password:** ✓
- Confirm Password:** ✓
- First Name:** Sonja ✓
- Last Name:** Filiposka ✓
- Default Homepage:** Dashboard ▾
- Timezone:** Europe/Berlin ▾
- Phone:** (empty)
- Organization:** Ss. Cyril and Methodiu ✓
- Position:** Prof ✓
- bastion info:** ssh-ed25519 AAAAC3| ✓

A 'Register' button is located at the bottom of the form. The footer of the page reads: GEANT GP4L, GP4L Booking System GPLv3 v2.8.6.1

Set notification preferences in My Account



LibreBooking Dashboard My Account Schedule Help Sign Out

Notification Preferences

When I create a reservation or a reservation is created on my behalf
 Send me an email Do not notify me

When I update a reservation or a reservation is updated on my behalf
 Send me an email Do not notify me

When I delete a reservation or a reservation is deleted on my behalf
 Send me an email Do not notify me

When my pending reservation is approved
 Send me an email Do not notify me

When someone joins or leaves my reservation
 Send me an email Do not notify me

When my recurring reservation series is ending
 Send me an email Do not notify me

GEANT GP4L
GP4L Booking System GPLv3 v2.8.6.1

Ready to make reservations

The screenshot shows the Libre Booking dashboard with the following sections:

- Announcements 0**: *There are no announcements*
- Past Reservations 0**: *You have no past reservations*
- Upcoming Reservations 0**: *You have no upcoming reservations*
- Resource Availability**:
 - Available**
 - Default
 - AMS0001**: *There are no upcoming reservations in next 30 days* [Reserve]
 - BUD0001**: *There are no upcoming reservations in next 30 days* [Reserve]
 - FRA0001**: *There are no upcoming reservations in next 30 days* [Reserve]
 - PAR0101**: *There are no upcoming reservations in next 30 days* [Reserve]
 - POZ0001**: *There are no upcoming reservations in next 30 days* [Reserve]
 - PRA0101**: *There are no upcoming reservations in next 30 days* [Reserve]
 - Unavailable**: *None*
 - Unavailable All Day**
 - Default
 - Other**: Available At Sat, 5/31 2025 11:30 PM [Reserve]

Step 4: Create a reservation

Click on reserve on one of the resources you would like to use

Choose start and end time

Click on Change/+ to change/add resources

- if a resource is unavailable in the given time period it will be grayed out

Provide a short title

Provide a short description of the experiment

Rest is optional

Click Create

The screenshot shows the 'Add Resources' dialog in the LibreBooking interface. The dialog is titled 'Add Resources' and has a close button (X) in the top right corner. Below the title, there is a dropdown menu set to 'All' with a downward arrow. A list of resources follows, each with a checkbox and a label:

- AMS000+
- BUD0001
- FRA000+
- Other
- PAR0101
- PGZ000+
- PRA0101
- test

At the bottom right of the dialog, there are two buttons: 'Cancel' and 'Done'. The background shows the LibreBooking interface with a sidebar on the left containing fields like 'Begin', 'End', 'Repeat', 'Resource', 'Title of', 'Description', and 'Send'. The footer of the page reads 'GEANT GP4L GP4L Booking System GPLv3 v2.8.6.1'.

Waiting on approval

The admin will be notified and review your request

Sonja Filiposka (elysium.sf@gmail.com)

Begin 02/08/2025
6:30 PM
6 days 5 hours 30 minutes
Repeat Does Not Repeat

Resources Change +
AMS0001 FRA0001

Title of reservation
short title of experiment

Description of reservation
description of the experiment

Send Reminder


Participant List 0
Add name or email

View Availability

Users Groups

Users Groups

Allow Participants To Join



Your reservation was successfully created!

Your reference number is 67a78e640df0a164024251

Dates: 02/08/2025

Resources: AMS0001, FRA0001, POZ0001

One or more of the resources reserved require approval before usage. This reservation will be pending until it is approved.

Close

Upcoming Reservations 1

Today (1)				
short title of experiment	Sonja Filiposka	Sat, 2/08 2025 6:30 PM	Sat, 2/15 2025 12:00 AM	AMS0001, FRA0001, POZ0001
Tomorrow (0)				
Later This Week (0)				
Next Week (0)				

Your request has been approved

- Your SSH public key will be sent to the Bastion at start of the approved reservation
- Will be active till end time of the reservation

Reservation created for AMS0001 Inbox x 🖨️ 📧

 **GP4L Booked** <gp4l-book@nmaas.eu> 📧 6:54 PM (0 minutes ago) ☆ 😊 ↶ ⋮
to me ▾

Reservation Details:

Start: 02/08/2025 @ 7:00 PM (Europe/Berlin)

End: 02/08/2025 @ 8:00 PM (Europe/Berlin)

Title: short title of experiment

Description: short description of the experiment

Resources (3):

AMS0001

FRA0001

POZ0001


At least one of the resources reserved requires you to check in and out of your reservation. This reservation will be cancelled unless you check in within 10 minutes after the scheduled start time.

Created by: Admin Admin

Reference Number: 67a79a20d1ad8357904578

[View this reservation](#) | [Add to Calendar](#) | [Add to Google Calendar](#) | [Log in to LibreBooking](#)

One attachment • Scanned by Gmail ⓘ

 reservation.ics [Download](#)

Upcoming Reservations 1

Today (1)				
short title of experiment	Sonja Filiposka	Sat, 2/08 2025 6:30 PM	Sat, 2/15 2025 12:00 AM	AMS0001, FRA0001, POZ0001
Tomorrow (0)				
Later This Week (0)				
Next Week (0)				

Take into account that

After your **reservation** is authorised you can still make a **change** to it if needed

- After every change of reservation you need to go through the authorisation process

Until reservation start time you are free to make **changes** to your **ssh key** stored in your profile on the reservation system

- Make sure that the correct value is provided as the key provides the access to the testbed

If a **resource** that you have reserved becomes **unavailable** due to unforeseen reasons you will be **notified** via email

- You can then choose to make changes to your reservation or leave it as it is

Resource status change notification

The availability of AMS0001 has changed



 Inbox x



GP4L Booked <gp4l-book@nm... 6:23 PM (0 minutes ago)



to me ▼

You are receiving this message because you have an upcoming reservation on AMS0001 and its availability has changed.

[Log in to LibreBooking](#)

Reserving partner resources

To get access to resources from other partners use the **Other** resource

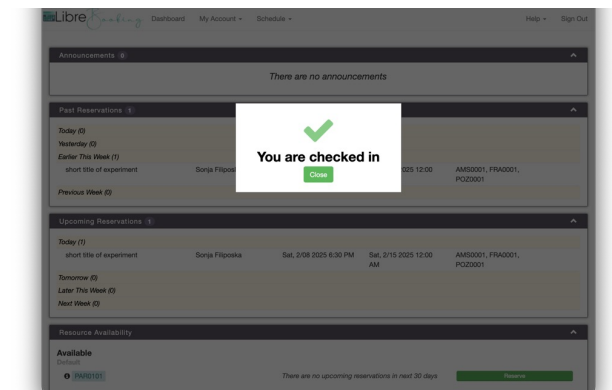
- allows concurrent reservations

Used to keep track of usage of partner resources

Step 5: Connect to Bastion

- When reservation time arrives
 1. Activate your VPN
 2. Check-in on the reservation system
 - If you don't check-in within 10 mins the reservation will auto delete
 3. ssh to the Bastion (bastion.gp4l.nmaas.eu)
 - SSH: netops@192.168.125.194 (port: 22)
 - use the ssh key that you have provided in the reservation system
- You now have access to the GP4L devices

Upcoming Reservations 1					
<i>Today (1)</i>					
short title of experiment	Sonja Filiposka	Sat, 2/08 2025 6:30 PM	Sat, 2/15 2025 12:00 AM	AMS0001, FRA0001, POZ0001	Check In



If you are done earlier than anticipated, Check-Out

In this way the resources are released for use by others as per the fair use policy

short title of experiment

Sonja Filiposka

Sat, 2/08 2025 6:30 PM

Sat, 2/15 2025 12:00 AM

AMS0001, FRA0001,
POZ0001

Check Out

Support

If you experience any problems or need help please contact us at gp4l-admin@lists.geant.org

We'll respond as soon as possible



Thank You

www.geant.org



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