Using Git

Banco de Portugal's Microdata Research Laboratory (BPLIM)

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1 Using Git in the External Server

Whenever a user wants to use Git on the external server, it is necessary to add their project to the internal GIT server. This procedure is carried out by DSI.

Please run the following test:

1. Login to the external server, Config file

To use git, it is necessary to modify or create the .gitconfig file in your user's home directory. You can use KWrite to edit/create the file. The file should have the following format and should be created for each user who has access to GitLab. In this file, you can adapt the name and replace 'investa' with your own user.

[cola]

```
    spellcheck = false
```

[user]

```
    name = Investigador A

    email = investa@sxpe-bplim01.bplim.local
```

[gui]

```
    editor = kwrite
```
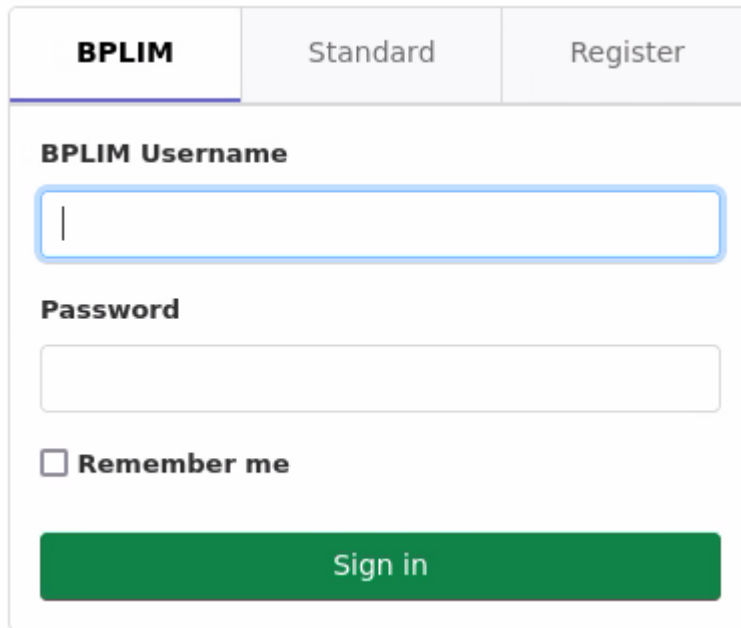
2. Authenticate by `ssh-key`. Open a `Terminal` in your home folder and type:

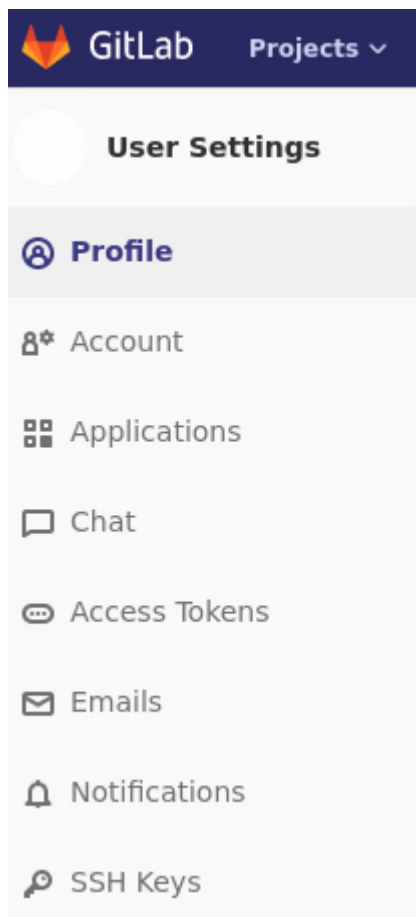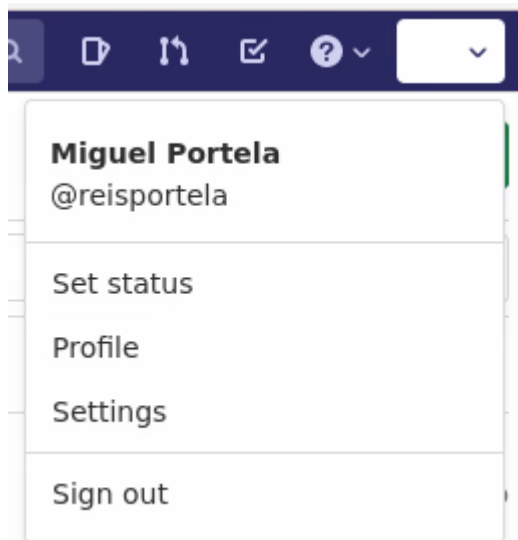- `ssh-keygen -t rsa -C "BPLIM git"`

- `cat ~/.ssh/id_rsa.pub`

3. Copy the resulting key to the clipboard

4. Open Firefox and navigate to https://vxpp-bplimgit.bplim.local/

Confirm that you have a secure connection and use your credentials for the external server to login.

5. In your profile go to settings and on the left-side bar click in SSH Keys and paste the contents of the clipboard in the text box on the top right corner under "Key"

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SSH Keys

SSH Keys

SSH keys allow you to establish a secure connection between your computer and GitLab.

Add an SSH key

To add an SSH key you need to generate one or use an existing key.

Key

Paste your public SSH key, which is usually contained in the file '~/.ssh/id_ed25519.pub' or '~/.ssh/id_rsa.pub' and begins with 'ssh-ed25519' or 'ssh-rsa'. Don't use your private SSH key.

```
Typically starts with "ssh-ed25519 ..." or "ssh-rsa ..."
```

Title

```
e.g. My MacBook key
```

Expires at

```
mm / dd / yyyy
```

Give your individual key a title. This will be publically visible.

```
Add key
```

Give a title, e.g., "BPLIM git", and click in "Add key"

6. **Go to `Projects` and create a `New project`, e.g., myfirst**

7. **Now you can clone the project**

Open a `Terminal` in your `work_area` and type

```
git clone git@vxpp-bplimgit.bplim.local:investa/myfirst.git
```


You have now a new folder corresponding to your project:

8. You should now create a `.gitignore` file following the instructions available at https://git-scm.com/docs/gitignore

9. You are now ready to work with Git on your project

You can find here a Git tutorial

https://git-scm.com/docs/gittutorial