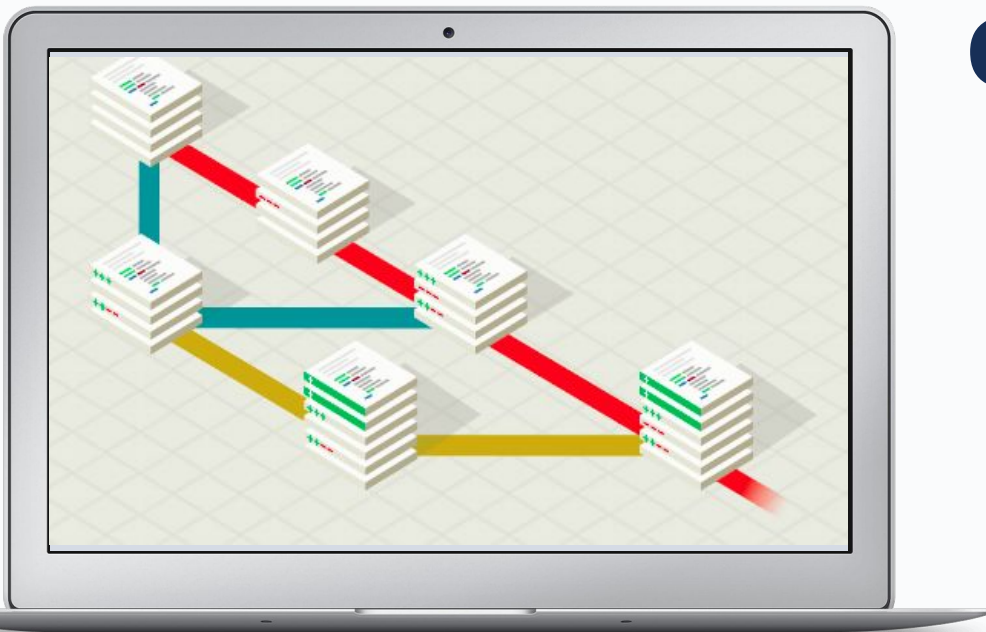




# Become QA Auto

## GIT. GitHub

Бутенко Сергій





# План лекції



Що таке GitHub



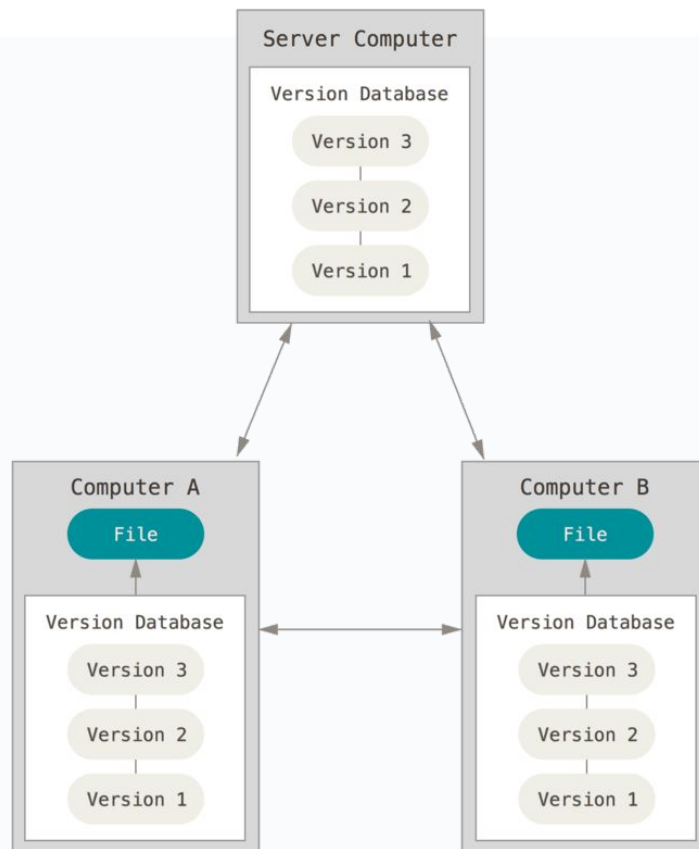
Створення SSH ключа



Створення репозиторія



# Що таке GitHub





# Що take GitHub



Why GitHub? ▾ Team Enterprise Explore ▾ Marketplace Pricing ▾

Search GitHub / Sign in Sign up

# Where the world builds software

Millions of developers and companies build, ship, and maintain their software on GitHub—the largest and most advanced development platform in the world.

Email address [Sign up for GitHub](#)

#295 zth/rescript-relay  
ReScript • Opened in Pirajui, merged 5 hours ago in Stockholm



# Що take GitHub



The screenshot shows the GitHub homepage with a dark blue background. At the top, there is a navigation bar with links: 'Why GitHub?', 'Team', 'Enterprise', 'Explore', 'Marketplace', and 'Pricing'. A search bar labeled 'Search GitHub' is on the right, followed by 'Sign in' and a 'Sign up' button highlighted with a red rectangle. The main content area features the headline 'Where the world builds software' in large white text. Below it, a paragraph states: 'Millions of developers and companies build, ship, and maintain their software on GitHub—the largest and most advanced development platform in the world.' At the bottom left, there is an input field for 'Email address' and a green 'Sign up for GitHub' button. On the right, a globe graphic is overlaid with a network of red and blue lines. A semi-transparent box over the globe displays a GitHub commit: '#295 zth/rescript-relay' by 'ReScript', noting it was 'Opened in Pirajui, merged 5 hours ago in Stockholm'.

Why GitHub? Team Enterprise Explore Marketplace Pricing

Search GitHub Sign in **Sign up**

# Where the world builds software

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Email address **Sign up for GitHub**

#295 zth/rescript-relay  
ReScript • Opened in Pirajui, merged 5 hours ago in Stockholm



# Створення репозиторію

[Pull requests](#)[Issues](#)[Codespaces](#)[Marketplace](#)[Explore](#)

## Create your first project

Ready to start building?

Create a repository for a new idea or bring over an existing repository to keep contributing to it.

[Create repository](#)[Import repository](#)

## Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

[Following](#)[For you](#)[Beta](#)

## Discover interesting projects and people to populate your personal news feed.

Your news feed helps you keep up with recent activity on repositories you [watch](#) or [star](#) and people you [follow](#).

[Explore GitHub](#)

**ProTip!** The feed shows you events from people you [follow](#) and repositories you [watch](#) or [star](#).

## Start coding instantly with GitHub Codespaces

Spin up fully configured dev environments on powerful VMs that start in seconds. Get up to 60 hours a month of free time.

[Get started](#)

## Latest changes

2 weeks ago



# Створення репозиторію



## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?

[Import a repository.](#)

Owner \*



SergiiButenko ▼

/

Repository name \*

Great repository names are short and memorable. Need inspiration? How about **furry-waddle**?

Description (optional)



# Створення репозиторію



## Public

Anyone on the internet can see this repository. You choose who can commit.



## Private

You choose who can see and commit to this repository.



## ① Створення репозиторію



### Initialize this repository with:

Skip this step if you're importing an existing repository.

☐ **Add a README file**

This is where you can write a long description for your project. [Learn more.](#)

☐ **Add .gitignore**

Choose which files not to track from a list of templates. [Learn more.](#)

☐ **Choose a license**

A license tells others what they can and can't do with your code. [Learn more.](#)



# Створення репозиторію




Create repository

# Створення репозиторію



 **SergiiButenko / furry-waddle** Public

 Pin

 Unwatch **1** 

 **Code**

 Issues

 Pull requests

 Actions

 Projects

 Wiki

 Security

 Insights

 Settings

## Quick setup — if you've done this kind of thing before

or

HTTPS

SSH

`git@github.com:SergiiButenko/furry-waddle.git`

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

# Створення репозиторію



SergiiButenko / furry-waddle Public

Pin

Unwatch 1

<> Code

Issues

Pull requests

Actions

Projects

Wiki

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## Quick setup — if you've done this kind of thing before

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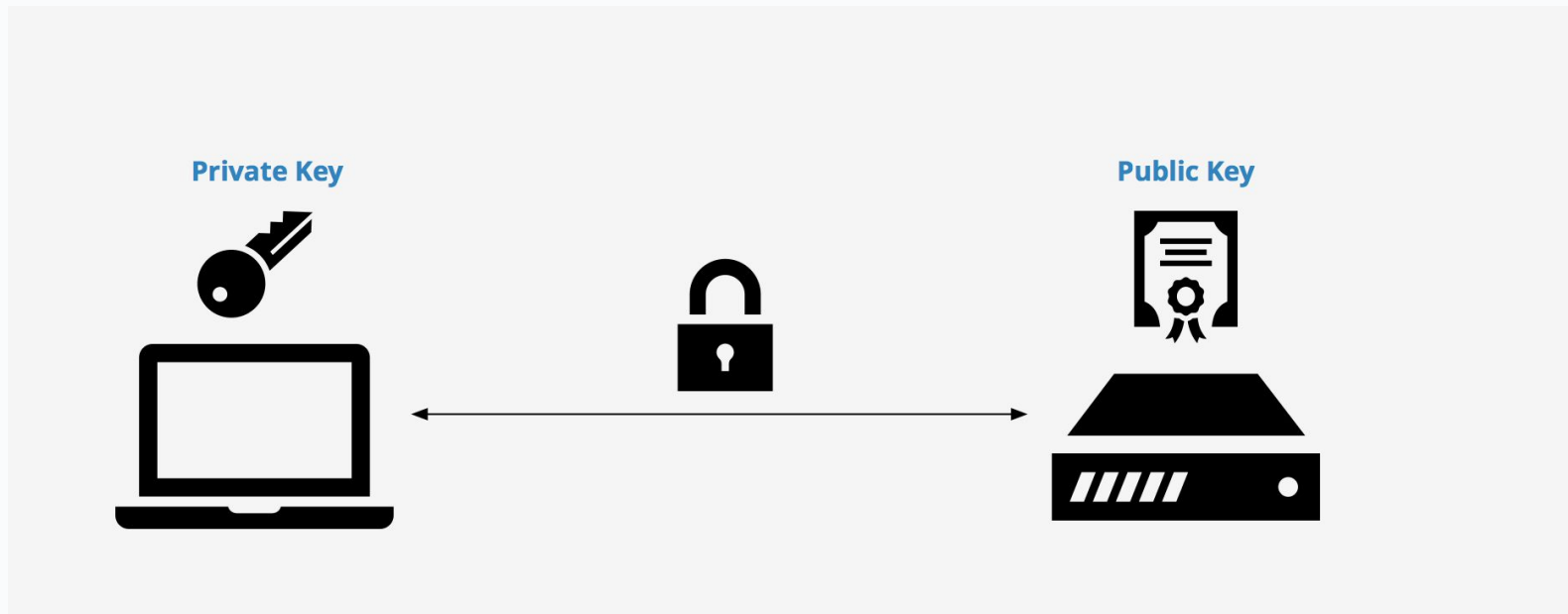
## Створення репозиторію



```
sergii.butenko@KBP1-LHP-A00394 ~  
$ git clone git@github.com:SergiiButenko/furry-waddle.git  
Cloning into 'furry-waddle'...  
The authenticity of host 'github.com (140.82.121.4)' can't be established.  
ED25519 key fingerprint is SHA256:+DiY3wvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU.  
This key is not known by any other names  
Are you sure you want to continue connecting (yes/no/[fingerprint])? y  
Please type 'yes', 'no' or the fingerprint: yes  
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.  
git@github.com: Permission denied (publickey).  
fatal: Could not read from remote repository.  
  
Please make sure you have the correct access rights  
and the repository exists.  
  
sergii.butenko@KBP1-LHP-A00394 ~  
$
```



# Створення SSH ключа





# Створення SSH ключа



```
sergii.butenko@KBP1-LHP-A00394 ~
$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\sergii.butenko/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\sergii.butenko/.ssh/id_rsa.
Your public key has been saved in C:\Users\sergii.butenko/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:NcLUfZSvxfDfdYo5i6HajKvK+b/VsEiAaPPTug7nuF8 synapse\sergii.butenko@KBP1-LHP-A00394
The key's randomart image is:
+---[RSA 2048]-----+
|      .. . . .      |
|  . . 0 . . +      |
|.0. . 0 0 . =      |
|. o .. o . B       |
|  o .. S   o +=     |
|    o . +. + o o   |
|. o E. o..o o      |
|. =.o =. . .       |
| oBBoo*+o          |
+-----[SHA256]-----+
```



# Створення SSH ключа



```
sergii.butenko@KBP1-LHP-A00394 ~  
$ ssh-keygen  
Generating public/private rsa key pair.  
Enter file in which to save the key (C:\Users\sergii.butenko/.ssh/id_rsa):  
Enter passphrase (empty for no passphrase).  
Enter same passphrase again:  
Your identification has been saved in C:\Users\sergii.butenko/.ssh/id_rsa.  
Your public key has been saved in C:\Users\sergii.butenko/.ssh/id_rsa.pub.  
The key fingerprint is:  
SHA256:NcLUfZSvxfDfdYo5i6HajKvK+b/VsEiAaPPTug7nuF8 synapse\sergii.butenko@KBP1-LHP-A00394  
The key's randomart image is:  
+---[RSA 2048]---+  
|         .. . . . |  
|      . . 0 . . + |  
|.o. . . 0 0 . = |  
|. o ..  o .   B |  
|   o .. S    o +=|  
|    o . . +. + o o|  
|. o E. o..o o   |  
|. =.o  =. . .   |  
| oBBoo*+o       |  
+-----[SHA256]-----+
```





## Створення SSH ключа



```
sergii.butenko@KBP1-LHP-A00394 ~  
$ cat C:\\Users\\sergii.butenko\\.ssh\\id_rsa.pub  
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAC9Gy8jU9wf0mbS4i/IxZJRFd0LGoHF7EsQRH3iUUYy  
ob+6YPVhg8Fa/7aqjpdUa0LNyvr2cryf8gAamSpoywGY1iWM7MU+kekysh5Snyv7lqUNmFDk2Yki2na  
AQaxPbMowvCGzYB1mz0oRasiz1FUvZ9BW6Bz0+PNvJeMw1ITe8o2PZ31BCIiVw11VvW9vhFp00y/2Ewo  
1tdSYxFdS5Xa/amOHbeAuTPruhFZdJ2f+aQdQ80PS7Re6GRvDtj9iOIY1febKQjj1jaJCoogmz0gDoo  
YNks2CibsDKA/pBTJ4g6ZaR1a0voqi0tvbLXEEha/cXK1jJNoCRrJilTltQh synapse\\sergii.bute  
nko@KBP1-LHP-A00394  
  
sergii.butenko@KBP1-LHP-A00394 ~  
$
```



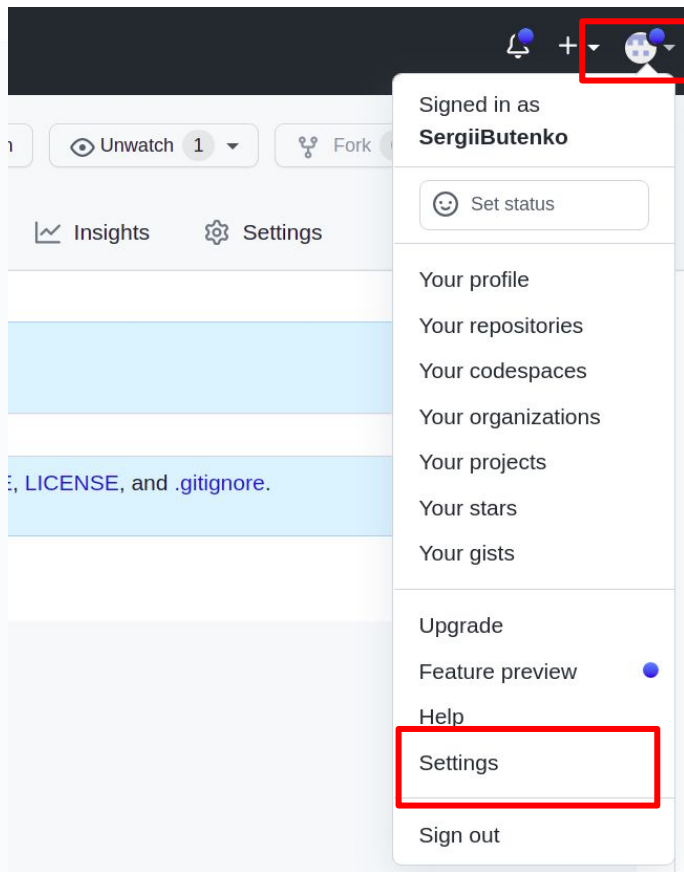
## Створення SSH ключа



```
sergii.butenko@KBP1-LHP-A00394 ~  
$ cat C:\\Users\\sergii.butenko\\.ssh\\id_rsa.pub  
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAC9Gy8jU9wfOmbS4i/IxZJRfd0LGoHF7EsQRH3iUUYy  
ob+6YPVhg8Fa/7aqjpdUa0LNyvR2cryf8gAamSpoywGY1iwwM7MU+kekysh5Snyv7lqUNmFDk2Yki2na  
AQaxPbMowvCGzyBImz0oRasiz1FUvZ9BW6Bz0+PNvJeMw1ITe8o2PZ31BCIiVw1lVvW9vhFp00y/2Ewo  
1tdSYxFdS5Xa/amOHbeAuTPruhFZdJ2f+aQdQ80PS7Re6GRvDtj9i0IY1febKQjj1jaJCoogmz0gDoo  
YNks2CibsDKA/pBTJ4g6ZaR1a0voqi0tVbLXEEha/cXK1jJNoCRrJilTltqh synapse\\sergii.bute  
nko@KBP1-LHP-A00394  
  
sergii.butenko@KBP1-LHP-A00394 ~  
$
```




# Створення SSH ключа





# Створення SSH ключа



**SergiiButenko**  
Your personal account [Switch to another account](#) ▼

Profile

Account

Appearance

Accessibility

Notifications

Access

Billing and plans

Emails

Password and authentication

**SSH and GPG keys**

Organizations

Moderation

## Public profile

### Name

Your name may appear around GitHub where you contribute. You can remove it at any time.

### Public email

Select a verified email to display ▼

You can manage verified email addresses in your [email set](#).

### Bio

Tell us a little bit about yourself

You can **@mention** other users and organizations to link to them.



## Створення SSH ключа



SSH keys

New SSH key



# Створення SSH ключа

SSH keys / Add new

Title

butenkoKey

Key type

Authentication Key

Key

ssh-rsa

```
AAAAB3NzaC1yc2EAAAADAQABAAQAC9Gy8jU9WfOmbS4i/lxZJRFd0LGoHF7EsQRH3iUUyjob+6YPVhg8Fa/7aqjpdUa  
0LNyVR2cryf8gAamSpoywGY1iWWM7MU+kekysh5Snyv7lqUNmFDk2Yki2naAQaxPbMowvCGzYBlmz0oRasiz1FUvZ9BW6  
Bz0+PNvJeMw1ITe8o2PZ31BCliVWl1VWV9vhFpOOy/2Ewo1tdSYxFdS5Xa/amOHbeAuTPruhFZdJ2f+aQdQ80PS7Re6GRv  
Dtj9iOIY1febKQjj1jaJCoogmz0gDooYNks2CibsDKA/pBTJ4g6ZaR1aOvoqi0tVbLXEEha/cXK1jJNoCRrJilTltQh  
synapse\sergii.butenko@KBP1-LHP-A00394
```

Add SSH key



# Створення SSH ключа



## SSH keys

[New SSH key](#)

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

### Authentication Keys

**113\_root**

SHA256:EAxR6hZZwZWQBQkK8ZaT8a/9mIQaQwzqq6DbLPj1X80

SSH

Added on May 23, 2020

Last used within the last 3 months — Read/write

[Delete](#)**work**

SHA256:wZQgVvRwGC2gvmpFUo/nXAH73rCTv0oLOQfEpYvLfx0

SSH

Added on Jul 13, 2020

Last used within the last 3 weeks — Read/write

[Delete](#)**butenkoKey**

SHA256:NcLUfZSvxFDfdYo5i6HajKvK+b/VsEiAaPPTug7nuF8

SSH

Added on Dec 26, 2022

Never used — Read/write

[Delete](#)

Check out our guide to [generating SSH keys](#) or troubleshoot [common SSH problems](#).



# Перевірка доступу



MINGW64:/c/Users/sergii.butenko



```
sergii.butenko@KBP1-LHP-A00394 MINGW64 ~  
$ git clone git@github.com:SergiiButenko/furry-waddle.git  
Cloning into 'furry-waddle'...  
warning: You appear to have cloned an empty repository.  
  
sergii.butenko@KBP1-LHP-A00394 MINGW64 ~  
$
```





# Підсумки



Створили акаунт на веб-порталі GitHub



Створили власний репозиторій



Клонували репозиторій собі на комп'ютер