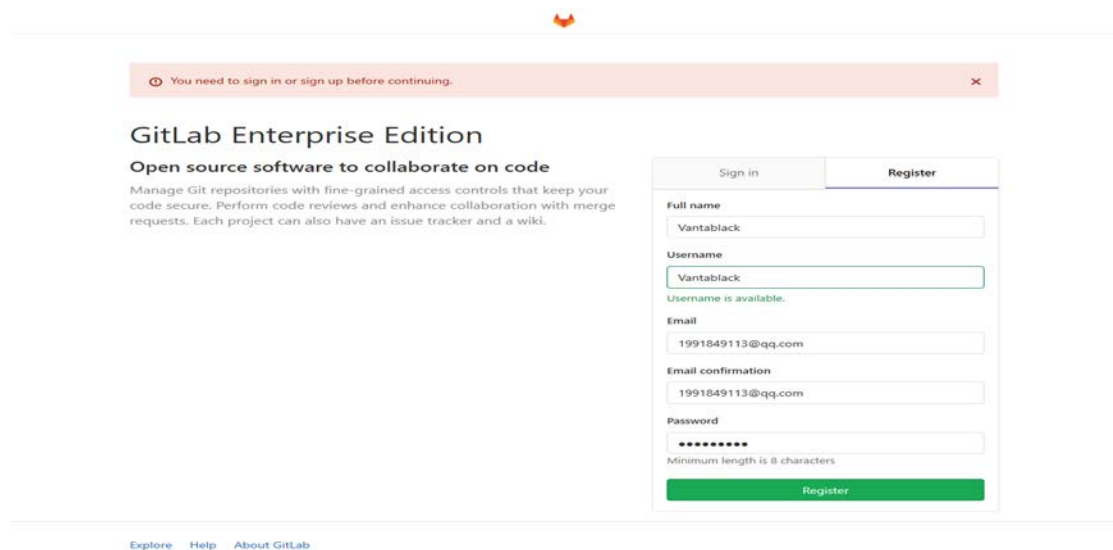


代码托管平台使用文档与规范

<https://gitlab.eduxiji.net>

一、注册用户

1、注册时会给注册邮箱发送一封确认邮件，点击 Confirm your account 即可跳转到登陆界面。



The screenshot displays the GitLab Enterprise Edition registration interface. At the top, a red notification bar states: "You need to sign in or sign up before continuing." Below this, the page header reads "GitLab Enterprise Edition" and "Open source software to collaborate on code". The main content area features a registration form with the following fields and values:

- Full name:** Vantablack
- Username:** Vantablack (with a green message: "Username is available.")
- Email:** 1991849113@qq.com
- Email confirmation:** 1991849113@qq.com
- Password:** 8 characters (with a note: "Minimum length is 8 characters")

A green "Register" button is located at the bottom of the form. The footer of the page includes links for "Explore", "Help", and "About GitLab".

图 1 注册用户

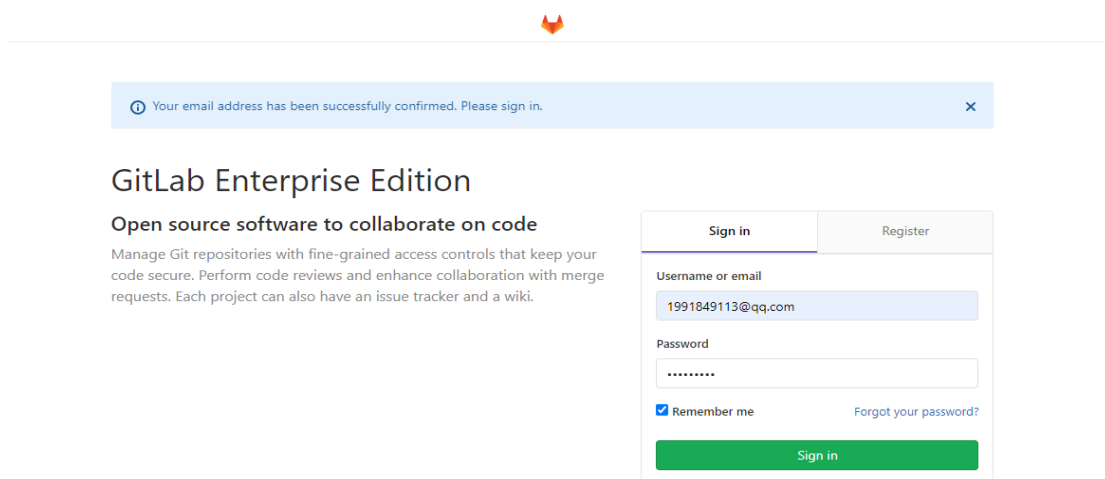


图 2 登录

2、登陆成功后出现欢迎界面，由队长点击 Create a group 创建一个团队，如图 3。

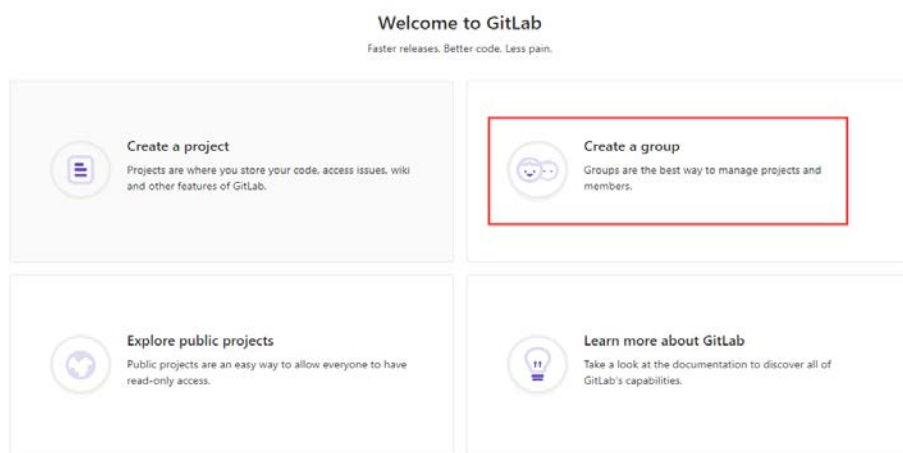


图 3 创建团队（group）

团队名称命名规范：

CSC2020-学校简称-队伍名（队伍名需为英文），中间以‘-’隔开。

团队简介：

2020 系统能力培养大赛学校名称队伍名称

可见等级设为 Private

示例如下图：

New group

Groups allow you to manage and collaborate across multiple projects. Members of a group have access to all of its projects.

Groups can also be nested by creating subgroups.

Projects that belong to a group are prefixed with the group namespace. Existing projects may be moved into a group.

Group name
CSC2020-BUAA-XXX

Group URL
https://gitlab.eduxij.net/ csc2020-buaa-xxx

Group description (optional)
2020系统能力培养大赛北京航空航天大学xxx小队

Group avatar
Choose file... No file chosen
The maximum file size allowed is 200KB.

Visibility level
Who will be able to see this group? [View the documentation](#)

☒ **Private**
The group and its projects can only be viewed by members.

☐ **Internal**
The group and any internal projects can be viewed by any logged in user.

☐ **Public**
The group and any public projects can be viewed without any authentication.

Create group **Cancel**

图 4 填写队伍信息

3、添加组员（注意设置权限，只有 Developer 及以上权限才能新建分支创建合并请求等）

Group members

Invite member **Invite group**

GitLab member or Email address
yml

Choose a role permission
Developer

Access expiration date
Expiration date

Existing shares

Members with access to CSC2020-BUAA-XXX

Vantablack @Vantablack
Given access 27 minutes ago

图 5 添加组员

4、在新建的组中创建一个名为 compiler 的仓库作为开发仓库

注：可见等级设为 Private

New project

A project is where you house your files (repository), plan your work (issues), and publish your documentation (wiki), among other things.

All features are enabled for blank projects, from templates, or when importing, but you can disable them afterward in the project settings.

Information about additional Pages templates and how to install them can be found in our [Pages getting started guide](#).

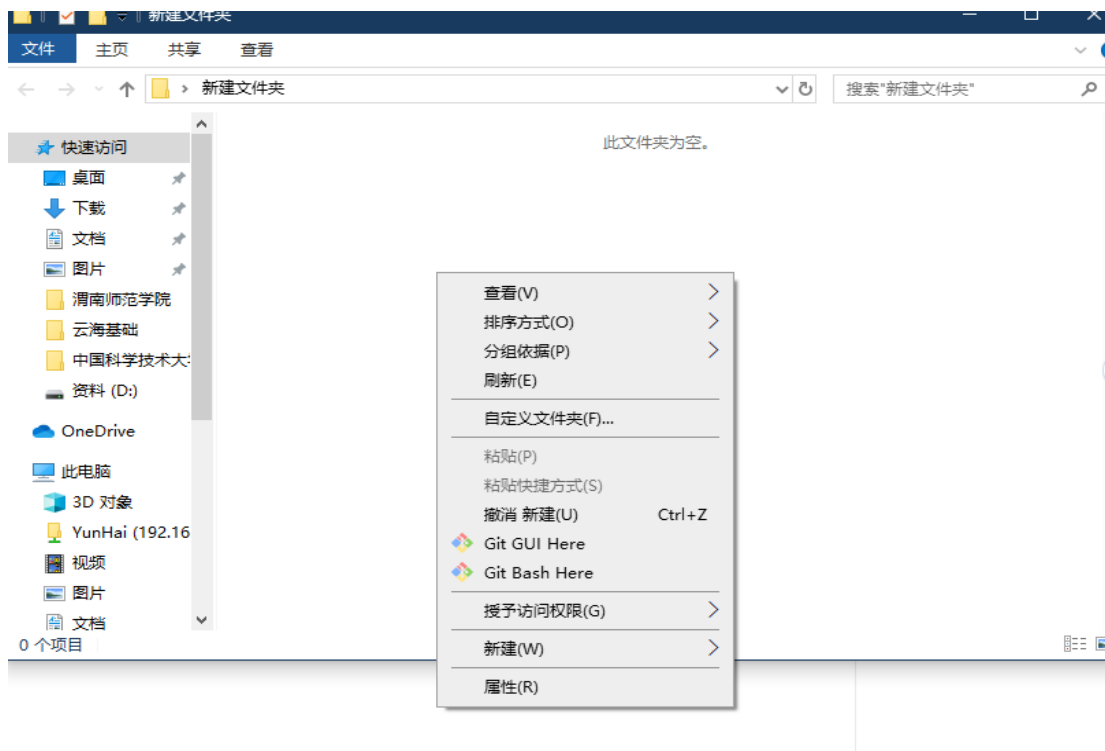
Tip: You can also create a project from the command line. [Show command](#)

Blank project	Create from template	Import project
Project name <input type="text" value="compiler"/>		
Project URL <input type="text" value="https://gitlab.eduxij.net/"/>		Project slug <input type="text" value="compiler"/>
<small>Want to house several dependent projects under the same namespace? Create a group.</small>		
Project description (optional) <div>Description format</div>		
Visibility Level ⓘ <input checked="" type="radio"/> Private <small>Project access must be granted explicitly to each user. If this project is part of a group, access will be granted to members of the group.</small>		
<input type="checkbox"/> Initialize repository with a README <small>Allows you to immediately clone this project's repository. Skip this if you plan to push up an existing repository.</small>		
<input type="button" value="Create project"/>		<input type="button" value="Cancel"/>

图 6 创建 compiler 仓库

二、GitLab 基础使用

Win 下，进入文件夹，鼠标右键空白处，选择 Git Bash Here



关闭 SSL 检查

```
git config --global http.sslverify false
```

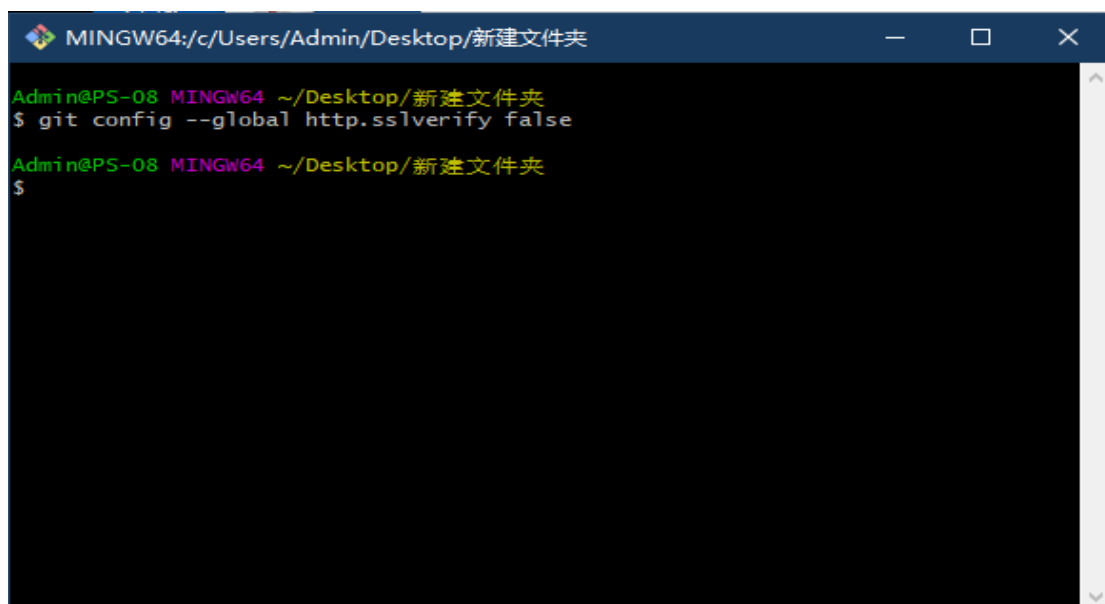


图 7 关闭 SSL 检查

配置用户信息

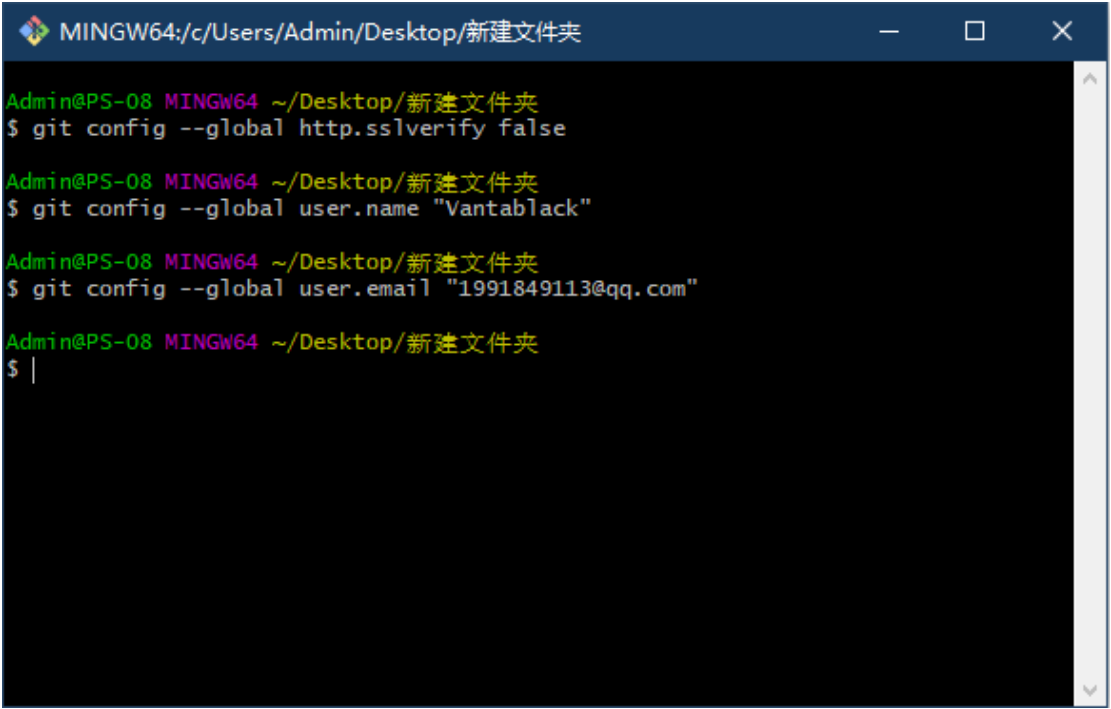


图 8 配置用户信息

Web 端打开项目，复制仓库地址

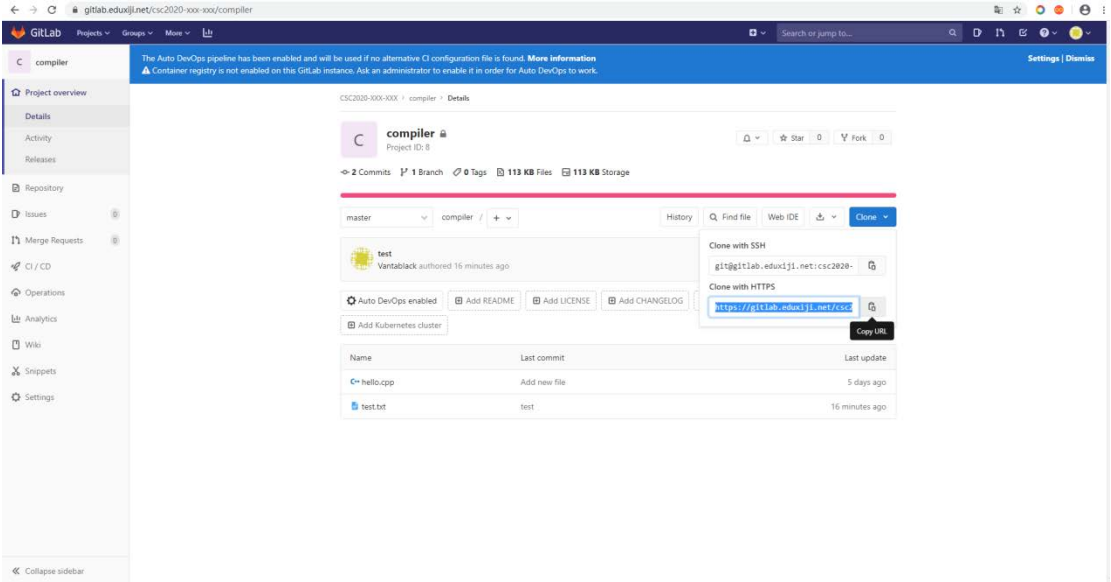


图 9 打开项目、复制仓库地址

clone 项目时要求输入用户名密码，这里需要输入用户令牌

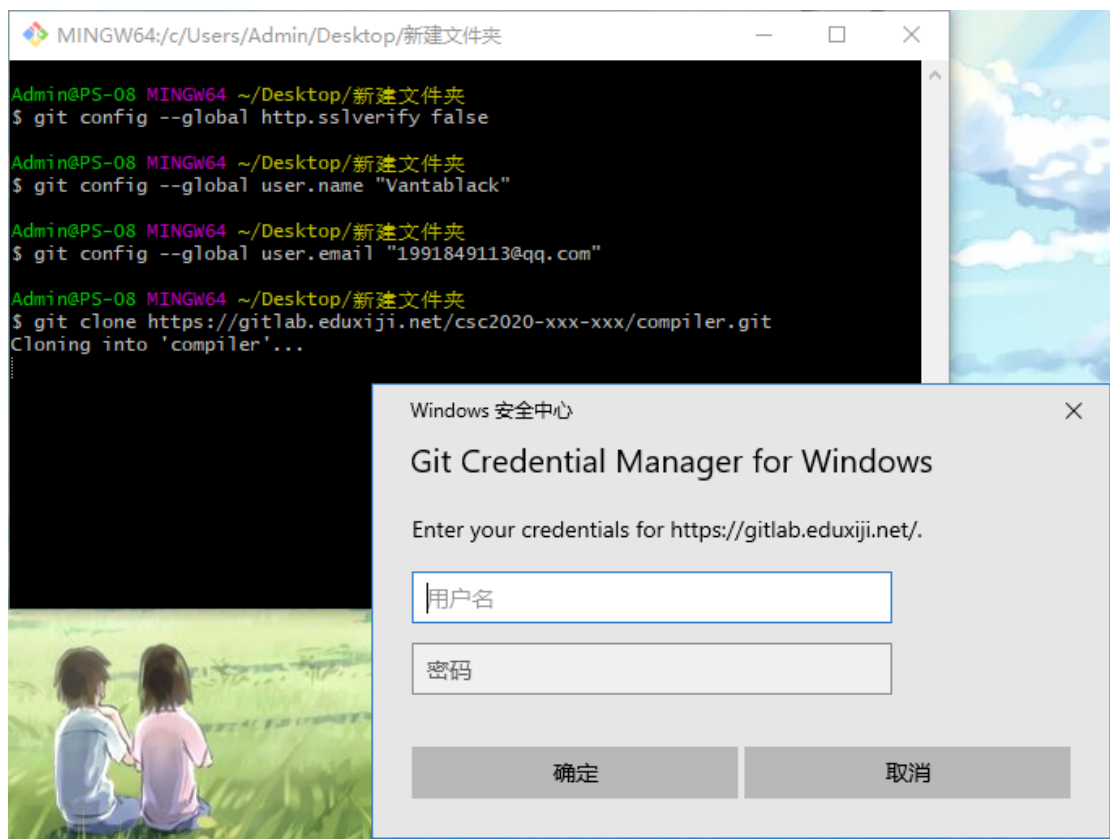


图 10 输入用户令牌

进去个人信息，点击 Settings

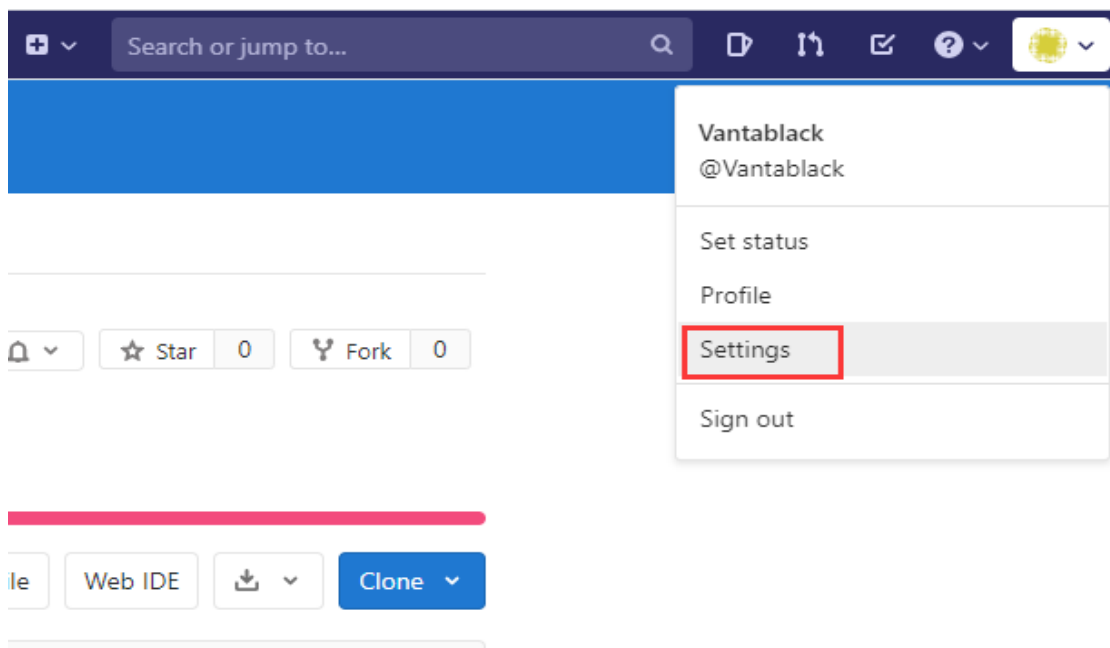
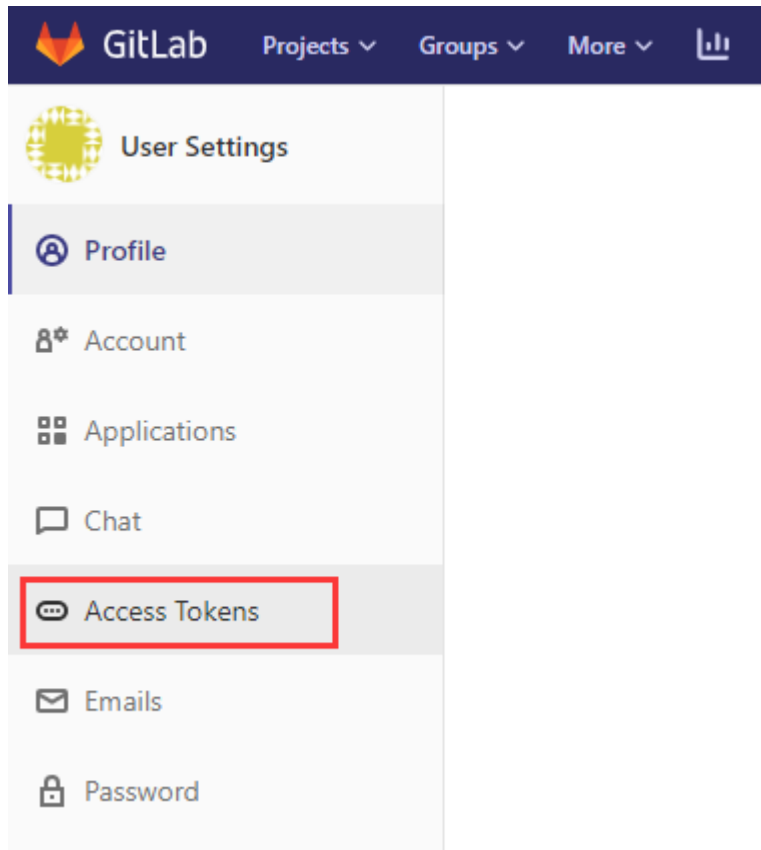


图 11 个人信息

选择个人 Access Tokens



填入 Name, Expires at, 选择 write_repository 创建

User Settings > Access Tokens

Personal Access Tokens

You can generate a personal access token for each application you use that needs access to the GitLab API.

You can also use personal access tokens to authenticate against Git over HTTP. They are the only accepted password when you have Two-Factor Authentication (2FA) enabled.

Add a personal access token

Pick a name for the application, and we'll give you a unique personal access token.

Name

Expires at

Scopes

- ☐ **api**
Grants complete read/write access to the API, including all groups and projects, the container registry, and the package registry.
- ☐ **read_user**
Grants read-only access to the authenticated user's profile through the /user API endpoint, which includes username, public email, and full name. Also grants access to read-only API endpoints under /users.
- ☐ **read_api**
Grants read access to the API, including all groups and projects, the container registry, and the package registry.
- ☐ **read_repository**
Grants read-only access to repositories on private projects using Git-over-HTTP or the Repository Files API.
- ☒ **write_repository**
Grants read-write access to repositories on private projects using Git-over-HTTP (not using the API).

[Create personal access token](#)

🔔 Your new personal access token has been created. ✕

Personal Access Tokens

You can generate a personal access token for each application you use that needs access to the GitLab API.

You can also use personal access tokens to authenticate against Git over HTTP. They are the only accepted password when you have Two-Factor Authentication (2FA) enabled.

Your New Personal Access Token

VCqX9-fS8S-ThnX4N1s1

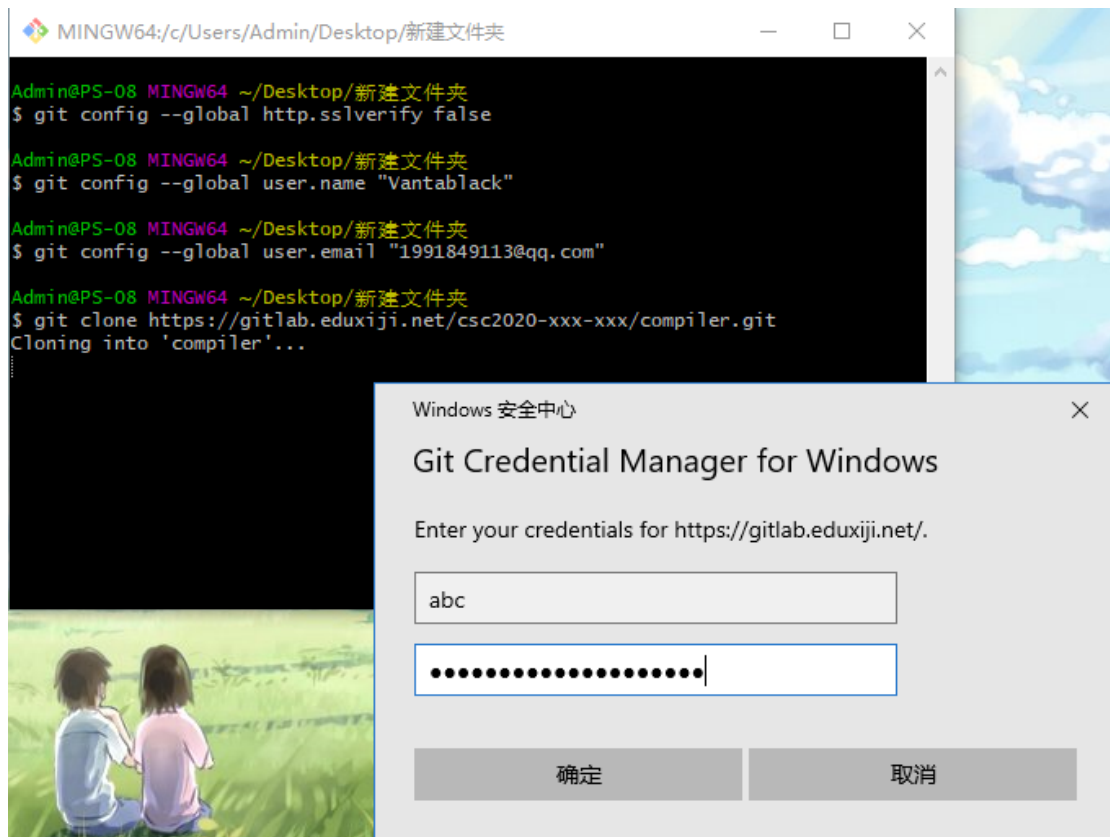
Make sure you save it - you won't be able to access it again.

Add a personal access token

Pick a name for the application, and we'll give you a unique personal access token.

Name

将生成的 Access Token 作为密码，生成 Token 时填入的 name 作为用户名填入



可以看到现在正常的 clone 了下来

```
MINGW64:/c:/Users/Admin/Desktop/新建文件夹

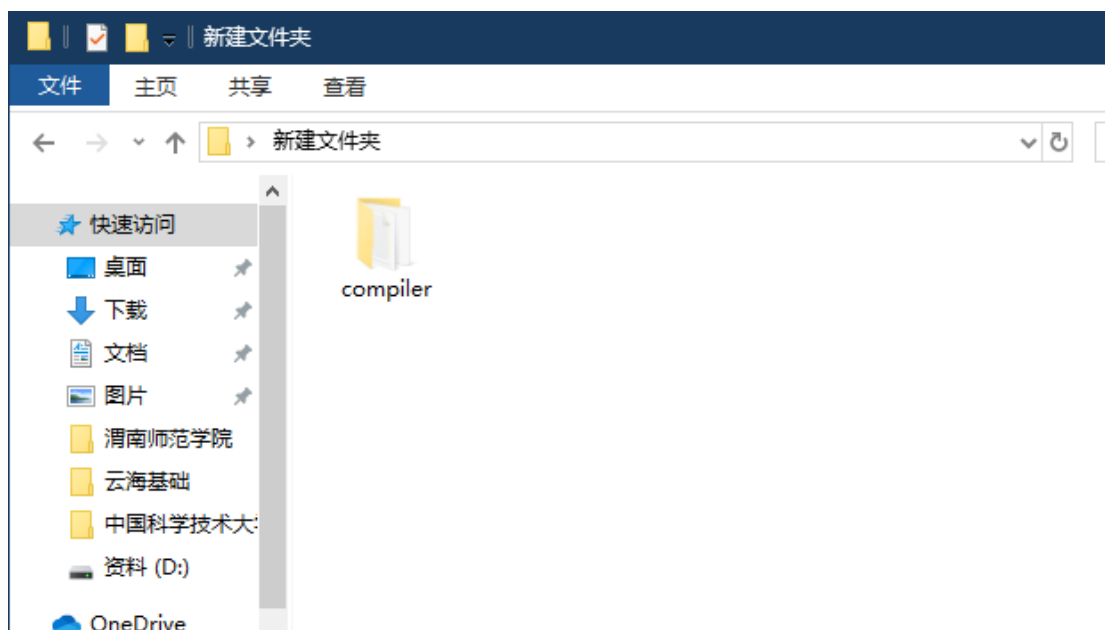
Admin@PS-08 MINGW64 ~/Desktop/新建文件夹
$ git config --global http.sslverify false

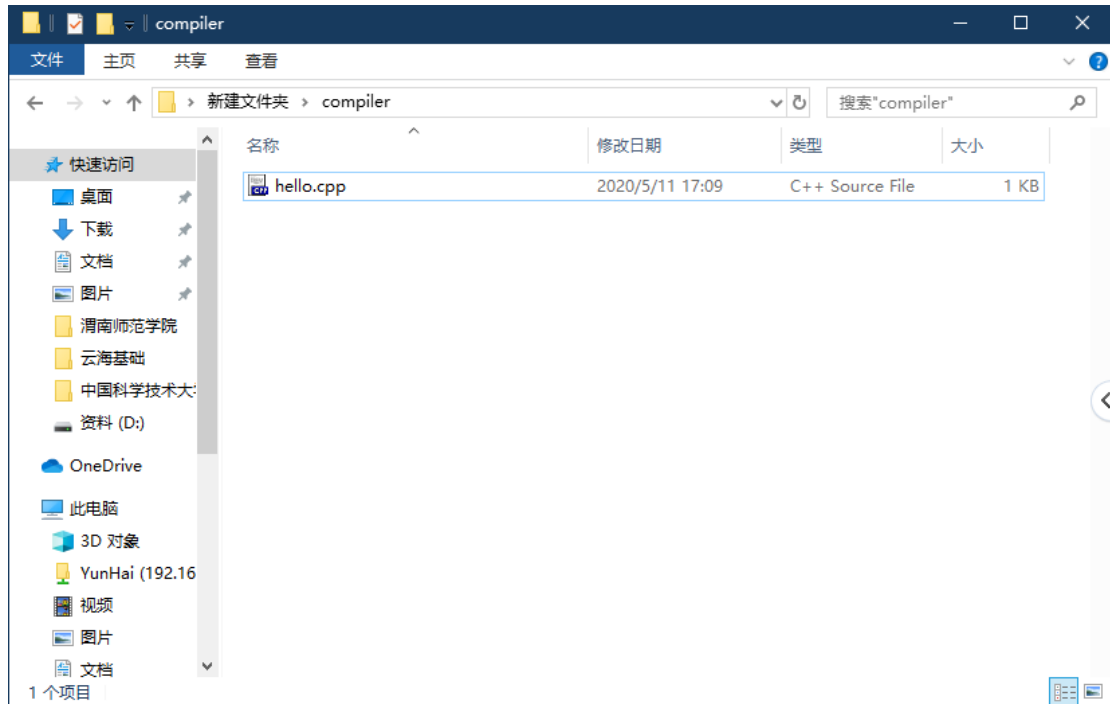
Admin@PS-08 MINGW64 ~/Desktop/新建文件夹
$ git config --global user.name "Vantablack"

Admin@PS-08 MINGW64 ~/Desktop/新建文件夹
$ git config --global user.email "1991849113@qq.com"

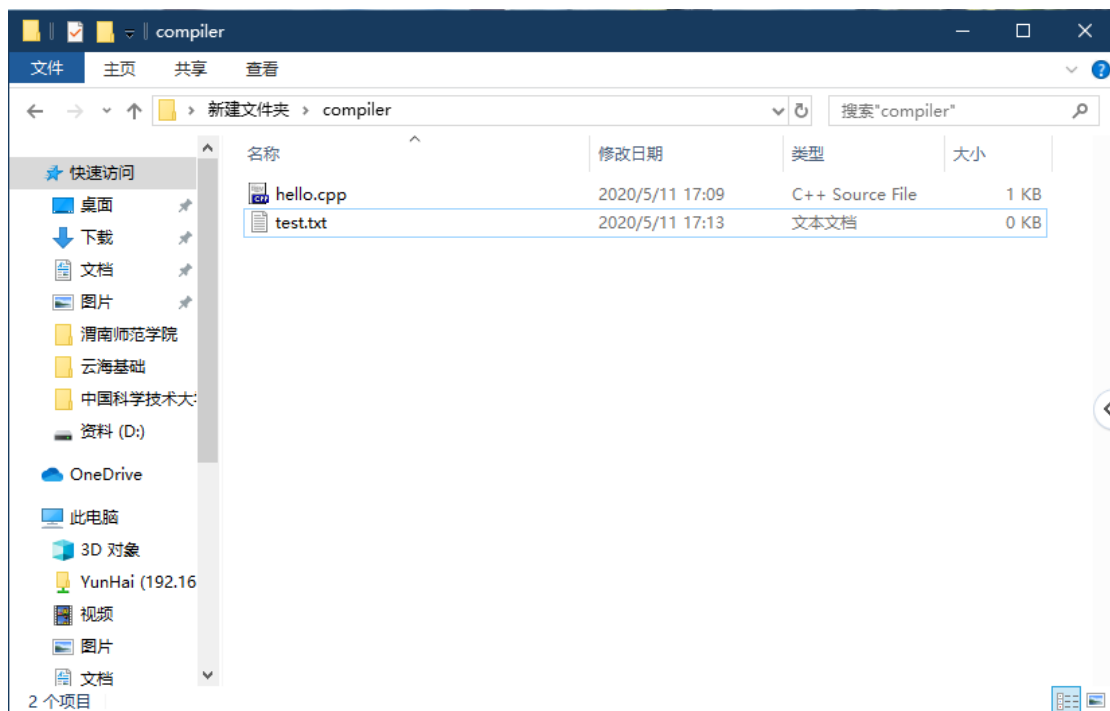
Admin@PS-08 MINGW64 ~/Desktop/新建文件夹
$ git clone https://gitlab.eduxiji.net/csc2020-xxx-xxx/compiler.git
Cloning into 'compiler'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (6/6), done.

Admin@PS-08 MINGW64 ~/Desktop/新建文件夹
$
```

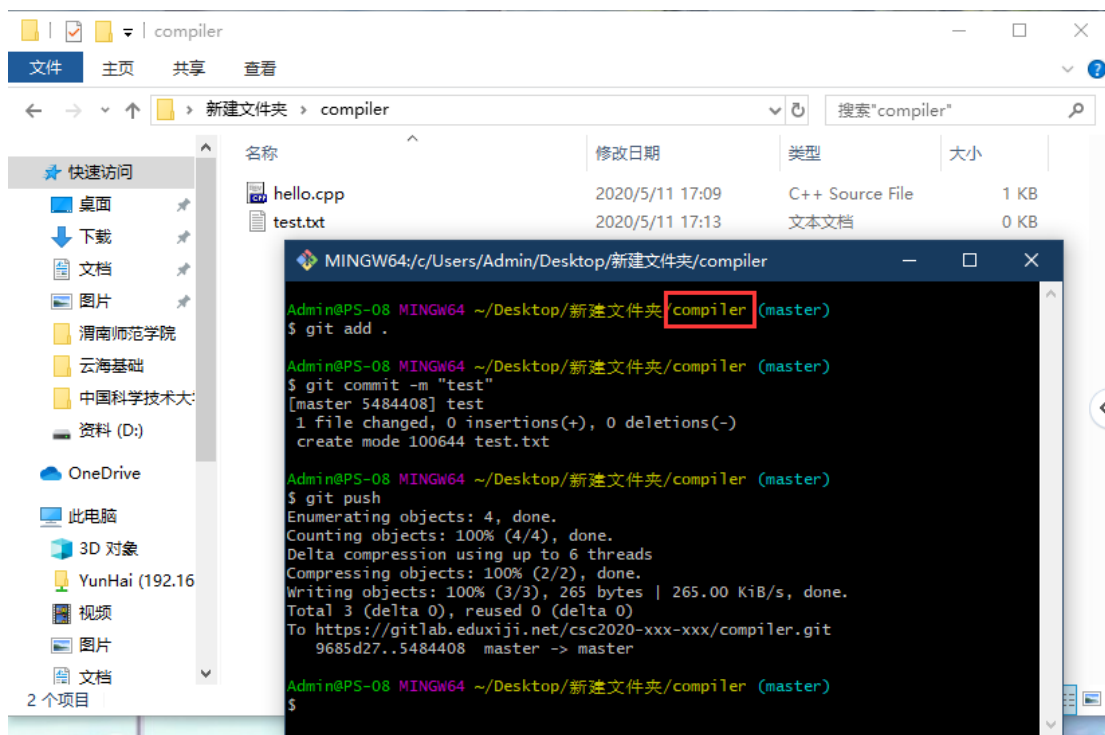




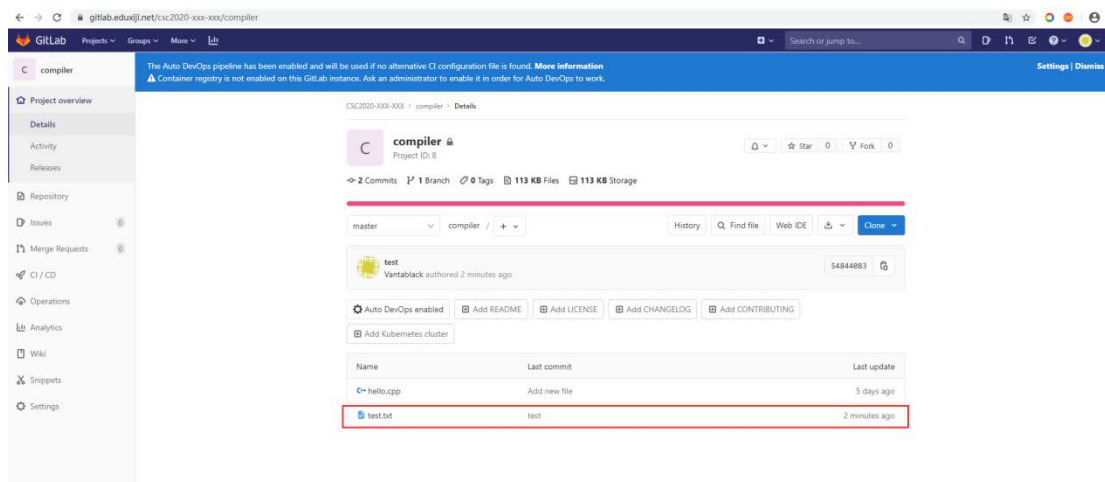
新建一个文件 test.txt



进入项目文件夹，鼠标右键空白处，选择 Git Bash Here，看到路径应在项目里，然后提交，推送



刷新浏览器可以看到新建的文件已经被推送到了远端仓库



Linux 下的操作与 win 上基本相同。

```
root@bogon:~  
Microsoft Windows [版本 10.0.18363.778]  
(c) 2019 Microsoft Corporation. 保留所有权利。  
  
C:\Users\Vantablack>ssh root@192.168.100.183  
The authenticity of host '192.168.100.183 (192.168.100.183)' can't be established.  
ECDSA key fingerprint is SHA256:+QCoWPTeskaL0vISOVNOXR00g2CmJlxaflc0kTmdueo.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added '192.168.100.183' (ECDSA) to the list of known hosts.  
root@192.168.100.183's password:  
Last login: Mon May 11 17:34:53 2020  
[root@bogon ~]# git config --global http.sslverify false  
[root@bogon ~]# git config --global user.name "Vantablack"  
[root@bogon ~]# git config --global user.email "1991849113@qq.com"  
[root@bogon ~]# git clone https://gitlab.eduxiji.net/csc2020-xxx-xxx/compiler.git  
正在克隆 'compiler'...  
Username for 'https://gitlab.eduxiji.net': abc  
Password for 'https://abc@gitlab.eduxiji.net':  
remote: Enumerating objects: 8, done.  
remote: Counting objects: 100% (8/8), done.  
remote: Compressing objects: 100% (6/6), done.  
remote: Total 8 (delta 1), reused 0 (delta 0), pack-reused 0  
Unpacking objects: 100% (8/8), done.  
[root@bogon ~]# ls  
anaconda-ks.cfg  generated  Packet Tracer 7.2.1 for Linux 64 bit.tar.gz  视频  下载  
compiler         libpng12-1.2.50-6.el7.x86_64.rpm  公共  图片  音乐  
docs             Packet_Tracer_7.2.1  模板  文档  桌面  
[root@bogon ~]# ls -r compiler/  
test.txt  hello.cpp  
[root@bogon ~]#
```

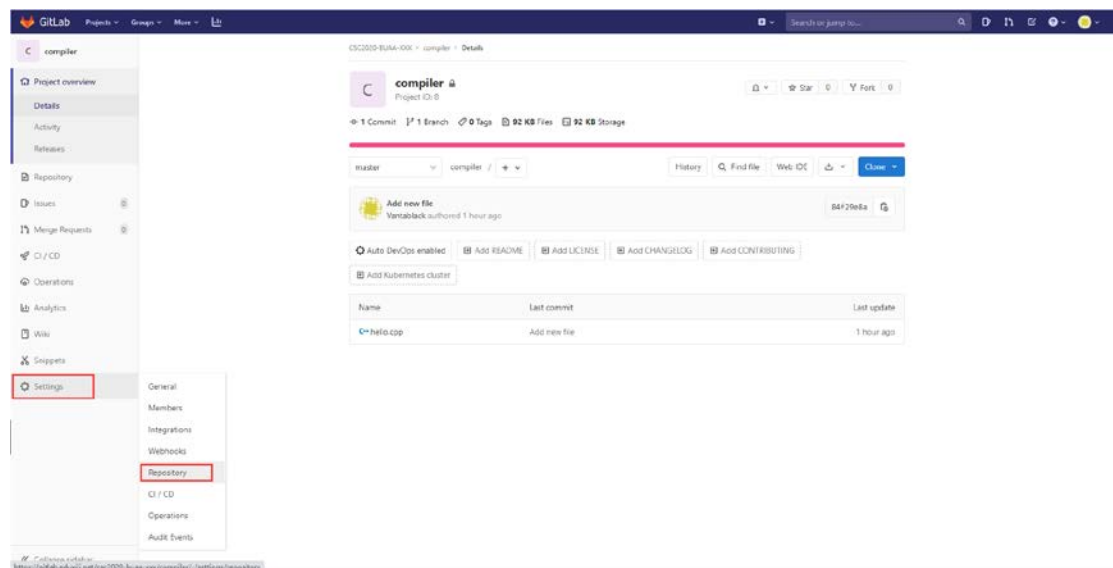
三、开发完成提交进行测评

提交内容：

提交文件命名为 `project.gitpro`，文件内容为私有仓库地址（需加上 `Doploy token`）

提交文件 `project.gitpro` 生成步骤：

1. web 端打开仓库，选择 `Settings->Repository`



2. 展开 `Deploy Tokens`

GitLab

Projects

Groups

More

Search or jump to...

C compiler

Project overview

Repository

Issues

Merge Requests

CI / CD

Operations

Analytics

Wiki

Snippets

Settings

General

Members

Integrations

Webhooks

Repository

CI / CD

Operations

Audit Events

Collapse sidebar

CSG2005-RUAA.XXX > compiler > Repository Settings

Default Branch

Select the branch you want to set as the default for this project. All merge requests and commits will automatically be made against this branch unless you specify a different one.

Expand

Mirroring repositories

Set up your project to automatically push and/or pull changes to/from another repository. Branches, tags, and commits will be synced automatically. [Read more](#)

Expand

Protected Branches

Keep stable branches secure and force developers to use merge requests.

Expand

Protected Tags

Limit access to creating and updating tags.

Expand

Deploy Tokens

Deploy tokens allow access to your repository and registry images.

Expand

Repository cleanup

Clean up after running BIG on the repository

Expand

3. 填写过期时间等信息（只能包含字母、数字、‘-’、，无法以‘-’开头）

Deploy Tokens

Collapse

Deploy tokens allow access to your repository and registry images.

Add a deploy token

Pick a name for the application, and we'll give you a unique deploy token.

Name

abc

Expires at

2020-05-07

Username

abc

Default format is "gitlab+deploy-token-{n}". Enter custom username if you want to change it.

Scopes

☒ **read_repository**
Allows read-only access to the repository

Create deploy token

Active Deploy Tokens (0)

This project has no active Deploy Tokens.

图 7 填写 Deploy Tokens 参数

4. 点击 Create deploy token 生成，然后将生成的信息复制出来备用。

🔔 Your new project deploy token has been created. ×

Protected Tags

Limit access to creating and updating tags. Expand

Deploy Tokens

Deploy tokens allow access to your repository and registry images. Collapse

Your New Deploy Token

abc 🔒

Use this username as a login.

jDkP7VM92Zs7cGMGmn8x 🔒

Use this token as a password. Make sure you save it - you won't be able to access it again.

Add a deploy token

Pick a name for the application, and we'll give you a unique deploy token.

Name

abc

Expires at

2020-05-07

Username

abc

Default format is "gitlab+deploy-token-(n)". Enter custom username if you want to change it.

Scopes

☒ read_repository


Allows read-only access to the repository

Create deploy token

图 8 生成 Deploy Tokens

5. 复制出项目地址

CSC2020-BUAA-XXX > compiler > Details


**compiler**
Project ID: 8

🔔 ☆ Star 0 🍴 Fork 0

🔗 1 Commit 🌿 1 Branch 🏷 0 Tags 📄 92 KB Files 💾 92 KB Storage

master compiler / +

History 🔍 Find file Web IDE 📄 Clone

 **Add new file**
Vantablack authored 1 hour ago

☒ Auto DevOps enabled ☐ Add README ☐ Add LICENSE ☐ Add CHANGELOG

☐ Add Kubernetes cluster

Clone with SSH

git@gitlab.eduxiji.net:csc2020-

Clone with HTTPS

<https://gitlab.eduxiji.net/csc2020->

🔒 Copy URL

Name	Last commit	Last update
🔗 hello.cpp	Add new file	1 hour ago

图 9 获取仓库地址

6. 将生成的 Doploy token 加入 Clone with HTTPS 链接即为完整的仓库地址

6.1 添加规则（此处的 username 是生成 Deploy token 处的账号密码）：

```
https://<username>:<deploy_token>@gitlab.example.com/tanuki/awesome_project.git
```

6.2 提交内容完整示例如下：

```
https://abc:jDkP7VM92Zs7cGMGmn8x@gitlab.eduxiji.net/csc2020-buaa-xxx/compiler.git
```

7. 新建 project.gitpro 文件，将上一步生成的仓库地址写入 project.gitpro 文件中，如图：

```
root@f584adb0837e:~# echo "https://abc:jDkP7VM92Zs7cGMGmn8x@gitlab.eduxiji.net/csc2020-buaa-xxx/compiler.git" > project.gitpro
root@f584adb0837e:~# cat project.gitpro
https://abc:jDkP7VM92Zs7cGMGmn8x@gitlab.eduxiji.net/csc2020-buaa-xxx/compiler.git
root@f584adb0837e:~#
```

图 10 生成 project.gitpro 文件

进入作业提交，选择文件，找到 project.gitpro 文件，点击提交

注意：如果需要上传多个文件，打包压缩后上传（仅限于zip或rar格式）。允许多次提交，文件大小不能超过**1 MB**。

选择文件

project.gitpro

提交

提交结果

未提交文件

图 11 提交 project.gitpro 文件

提交完成

确认提交完成之后，回到 web gitlab 页面下 Deploy Tokens，
撤销令牌使 token 失效

Deploy Tokens

Collapse

Deploy tokens allow access to your repository and registry images.

Add a deploy token

Pick a name for the application, and we'll give you a unique deploy token.

Name

Expires at

Username

Default format is "gitlab+deploy-token-{n}". Enter custom username if you want to change it.

Scopes

☐ read_repository

Allows read-only access to the repository

Create deploy token

Active Deploy Tokens (1)

Name	Username	Created	Expires	Scopes	
abc	abc	May 7, 2020	In about 22 hours	read_repository	Revoke

图 12 撤销 Deploy Tokens

