山东大学 计算机科学与技术 学院

云计算技术 课程实验报告

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实验题目： 利用云平台搭建个人博客		
实验学时： 2	**实验日期：** 2023.3.14	

实验目的： 熟悉个人博客系统的搭建。

具体包括：

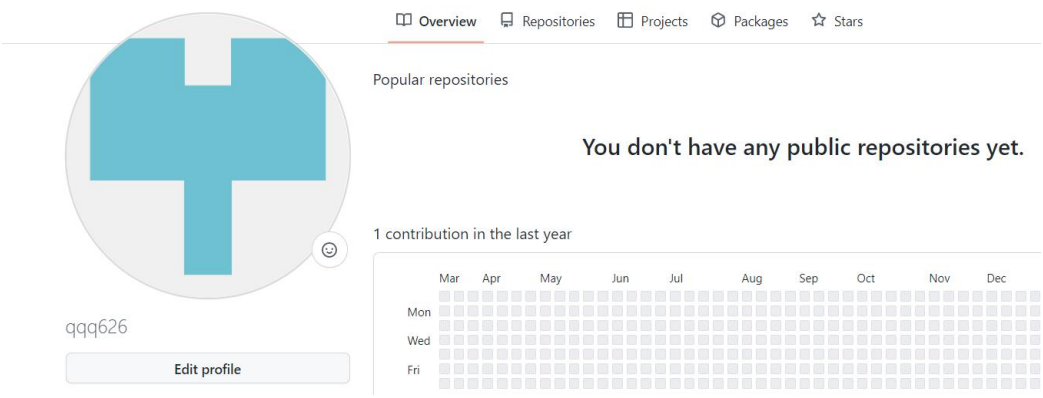
参考方案：注册 Github 账号，搭建 Hexo 环境并实现个人博客搭建，撰写实验报告。

硬件环境： 联网的计算机一台

软件环境： Windows

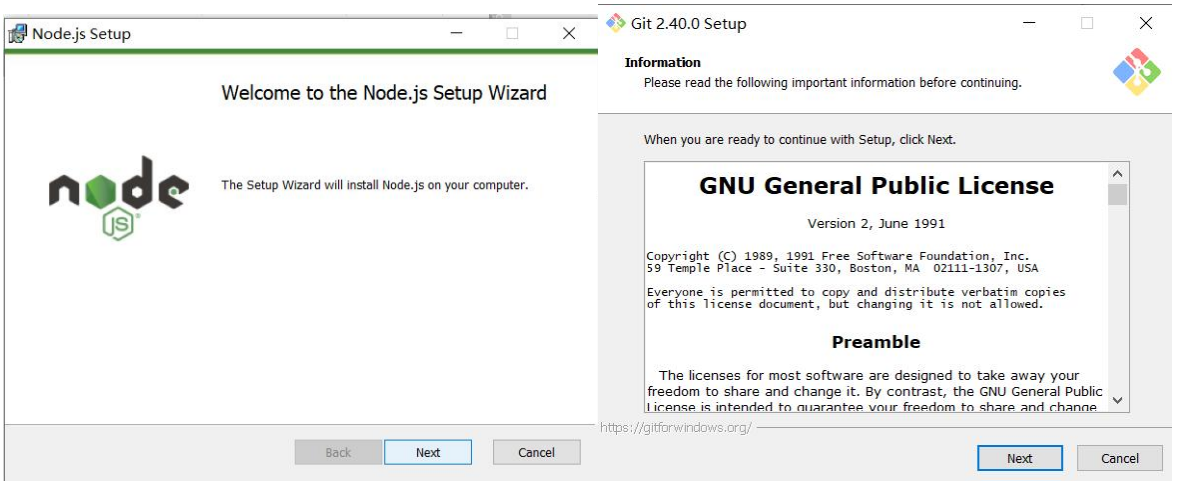
实验步骤与内容：

之前已经有注册过 GitHub 账号，直接登录即可。

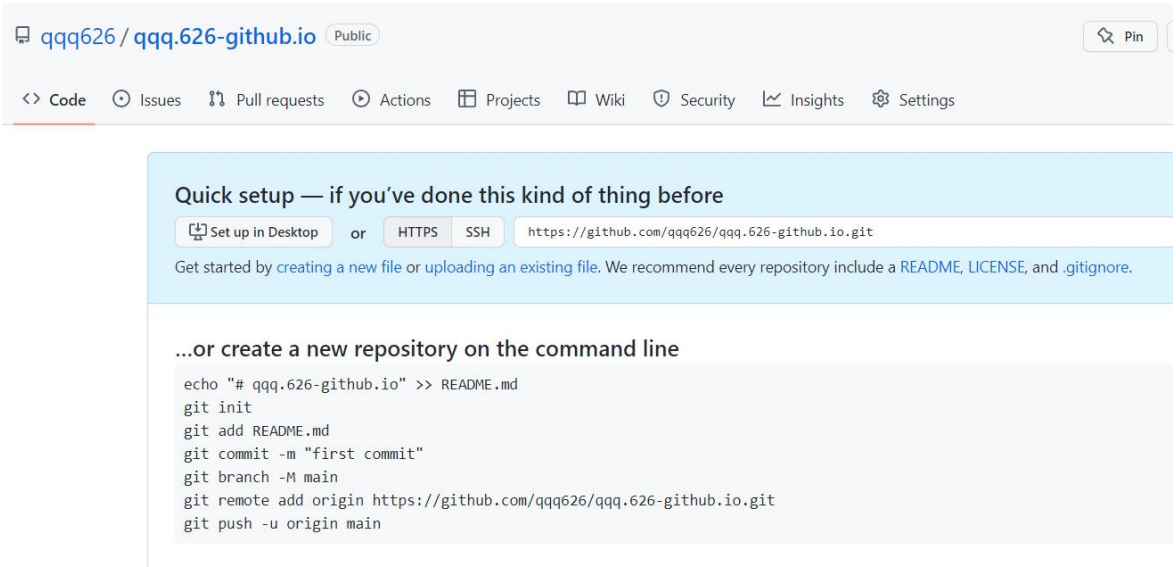


搭建 hexo 环境：

①安装我们本次需要使用的两个软件，选择相应的安装包并完成安装。



②建立 GitHub 仓库



③ 进入本地配置安装 Hexo

创建新目录，右键使用 Gti Bash Here 打开 Git 命令窗口，输入命令安装 hexo 并初始化 hexo。

MINGW64:/e/Cloud_blog

```
npm notice Run `npm install -g npm@9.6.1` to update!
npm notice

Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/Cloud_blog
$ cnpm install -g hexo-cli
Downloading hexo-cli to C:\Users\Lenovo1\AppData\Roaming\npm\node_modules\hexo-c
li_tmp
Copying C:\Users\Lenovo1\AppData\Roaming\npm\node_modules\hexo-cli_tmp\.store\he
xo-cli@4.3.0\node_modules\hexo-cli to C:\Users\Lenovo1\AppData\Roaming\npm\node_
modules\hexo-cli
Installing hexo-cli's dependencies to C:\Users\Lenovo1\AppData\Roaming\npm\node_
modules\hexo-cli/node_modules
[1/10] abbrev@^1.1.1 installed at node_modules\.store\abbrev@1.1.1\node_modules\
abbrev
[2/10] tildify@^2.0.0 installed at node_modules\.store\tildify@2.0.0\node_module
s\tildify
[3/10] hexo-log@^2.0.0 installed at node_modules\.store\hexo-log@2.0.0\node_modu
les\hexo-log
[4/10] command-exists@^1.2.8 installed at node_modules\.store\command-exists@1.2
.9\node_modules\command-exists
[5/10] minimist@^1.2.5 installed at node_modules\.store\minimist@1.2.8\node_modu
les\minimist
[6/10] bluebird@^3.5.5 installed at node_modules\.store\bluebird@3.7.2\node_modu
les\bluebird
[7/10] chalk@^4.0.0 installed at node_modules\.store\chalk@4.1.2\node_modules\ch
alk
[8/10] hexo-fs@^3.0.1 installed at node_modules\.store\hexo-fs@3.1.0\node_module
s\hexo-fs
[9/10] resolve@^1.11.0 installed at node_modules\.store\resolve@1.22.1\node_modu
les\resolve
[10/10] hexo-util@^2.0.0 installed at node_modules\.store\hexo-util@2.7.0\node_m
odules\hexo-util
All packages installed (58 packages installed from npm registry, used 5s(network
 4s), speed 481.84KB/s, json 58(335.58KB), tarball 1.76MB, manifests cache hit 0
, etag hit 0 / miss 0)
[hexo-cli@4.3.0] link C:\Users\Lenovo1\AppData\Roaming\npm\hexo@ -> C:\Users\Len
ovo1\AppData\Roaming\npm\node_modules\hexo-cli\bin\hexo
```

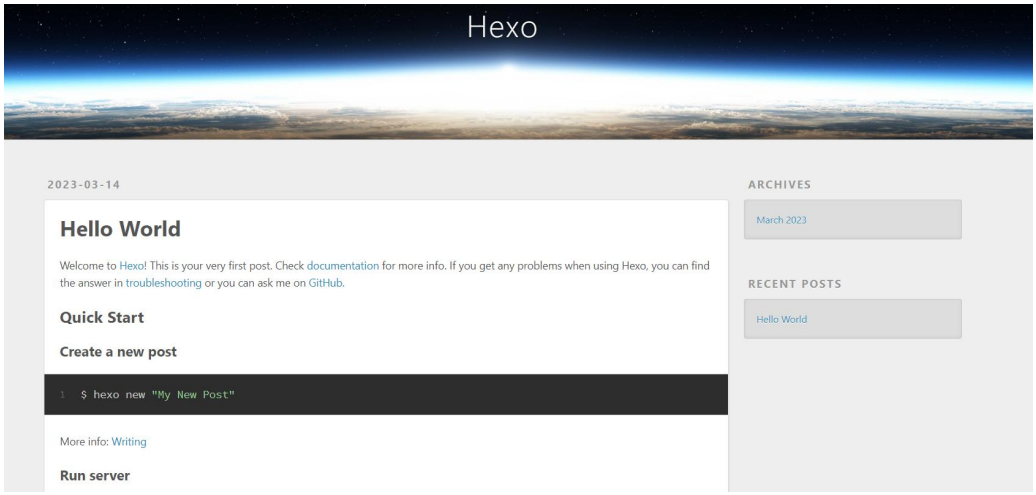
```
Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/Cloud_blog
$ hexo init
INFO  Cloning hexo-starter https://github.com/hexojs/hexo-starter.git
INFO  Install dependencies
INFO  Start blogging with Hexo!

Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/Cloud_blog
```

启动 hexo 后在浏览器打开可查看本地浏览博客（自带一篇 Hello World 博客）

```
Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/Cloud_blog
$ hexo s
INFO  Validating config
INFO  Start processing
INFO  Hexo is running at http://localhost:4000/ . Press Ctrl+C to stop.
INFO  Bye!


Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/Cloud_blog
$
```

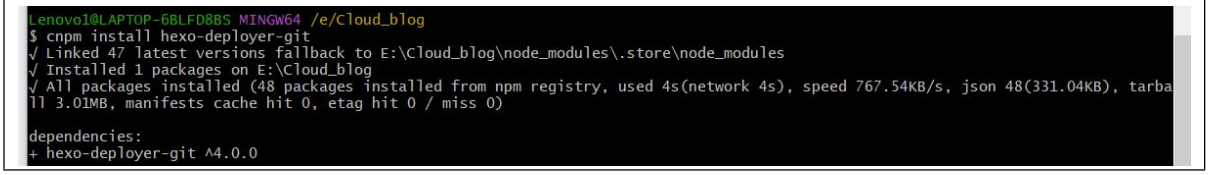


④设置 SSH

生成 sshkey 并在 GitHub 主页设置创建

本地验证绑定成功并收到邮箱

⑤上传测试博客　　需要先安装一个上传工具



新建一篇测试文章

```
Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/Cloud_blog
$ hexo new "first article"
INFO  Validating config
INFO  Created: E:\Cloud_blog\source\_posts\first-article.md
```

新建文章后需要生成一遍文件

```
Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/Cloud_blog
$ hexo g
INFO  Validating config
INFO  Start processing
INFO  Files loaded in 103 ms
INFO  Generated: archives/index.html
INFO  Generated: archives/2023/index.html
INFO  Generated: index.html
INFO  Generated: archives/2023/03/index.html
INFO  Generated: fancybox/jquery.fancybox.min.css
INFO  Generated: js/script.js
INFO  Generated: css/fonts/FontAwesome.otf
INFO  Generated: css/style.css
INFO  Generated: fancybox/jquery.fancybox.min.js
INFO  Generated: js/jquery-3.4.1.min.js
INFO  Generated: css/fonts/fontawesome-webfont.ttf
INFO  Generated: css/images/banner.jpg
INFO  Generated: css/fonts/fontawesome-webfont.eot
INFO  Generated: css/fonts/fontawesome-webfont.woff
INFO  Generated: css/fonts/fontawesome-webfont.woff2
INFO  Generated: 2023/03/14/first-article/index.html
INFO  Generated: css/fonts/fontawesome-webfont.svg
INFO  Generated: 2023/03/14/hello-world/index.html
INFO  18 files generated in 492 ms
```

最后部署到 GitHub 即可

```
Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/Cloud_blog
$ hexo d
INFO  Validating config
INFO  Deploying: git
INFO  Setting up Git deployment...
Initialized empty Git repository in E:/Cloud_blog/.deploy_git/.git/
[master (root-commit) b46df3d] First commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 placeholder
INFO  Clearing .deploy_git folder...
INFO  Copying files from public folder...
INFO  Copying files from extend dirs...
```

结论分析与体会：

此次实验过程中，我学习到了 Hexo 环境以及 GitHub 个人博客搭建，进一步了解连接相关知识，收获颇丰。虽然在搭建过程中遇到了一些问题，但在网络搜索以及同学帮助下，问题都得到了有效解决，成功搭建了所需环境。