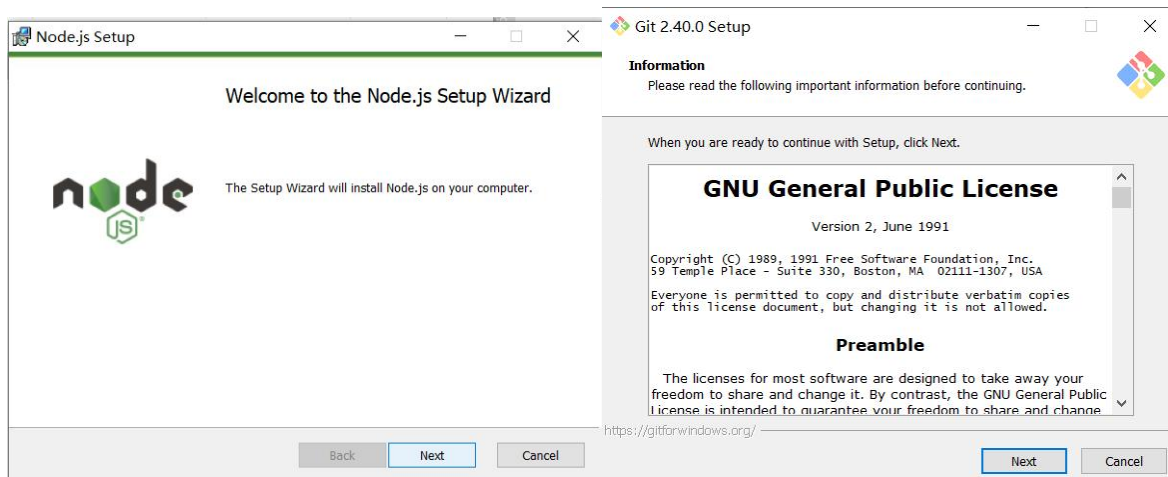


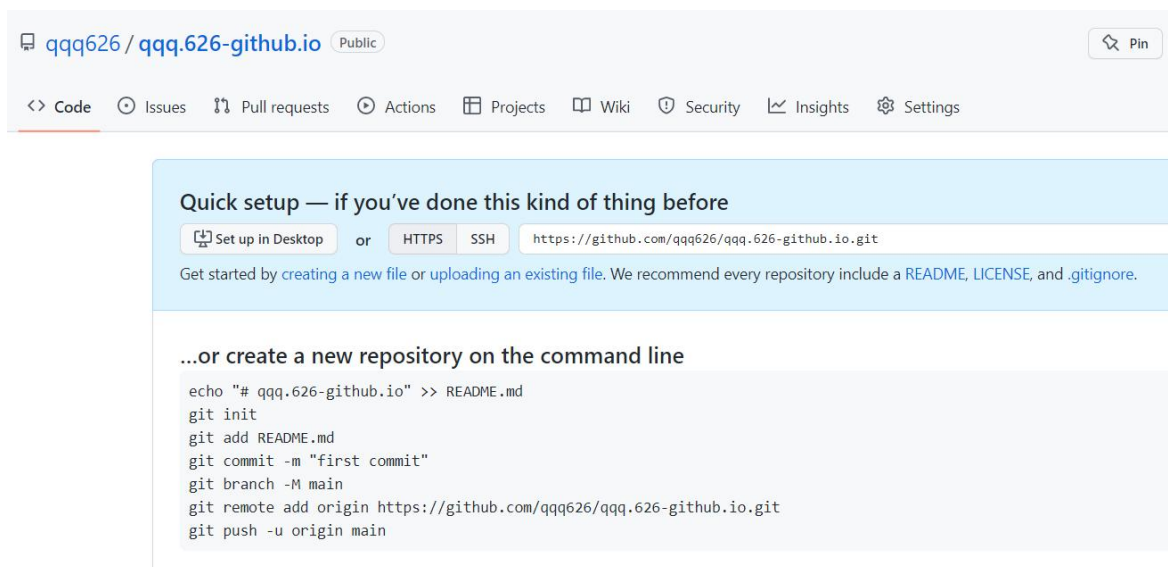
# 山东大学 计算机科学与技术 学院

## 云计算技术 课程实验报告

学号：202000130055	姓名：曲楚翹	班级：计科 20 级 1 班					
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						
<p>实验目的：熟悉个人博客系统的搭建。</p> <p>具体包括：</p> <p>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。</p>							
硬件环境：联网的计算机一台							
软件环境：Windows							
<p>实验步骤与内容：</p> <p>之前已经有注册过 GitHub 账号，直接登录即可。</p> <div></div>							
<p>搭建 hexo 环境：</p> <p>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。</p> <div><p>下载</p><p>长期支持版本: 16.19.1</p><table><tr><td>16.19.1 长期支持版本</td><td>18.15.0 最新版本</td></tr><tr><td> Windows 安装包 node-v16.19.1-x64.msi</td><td> macOS 安装包 node-v16.19.1.pkg</td><td> 源代码 node-v16.19.1.tar.gz</td></tr></table></div>			16.19.1 长期支持版本	18.15.0 最新版本	 Windows 安装包 node-v16.19.1-x64.msi	 macOS 安装包 node-v16.19.1.pkg	 源代码 node-v16.19.1.tar.gz
16.19.1 长期支持版本	18.15.0 最新版本						
 Windows 安装包 node-v16.19.1-x64.msi	 macOS 安装包 node-v16.19.1.pkg	 源代码 node-v16.19.1.tar.gz					



## 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 Git 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-cli_tmp
```

```
Copying C:\Users\Lenovo1\AppData\Roaming\npm\node_modules\hexo-cli_tmp\store\hexo-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_modules\tildify
```

```
[3/10] hexo-log@2.0.0 installed at node_modules\store\hexo-log@2.0.0\node_modules\hexo-log
```

```
[4/10] command-exists@1.2.8 installed at node_modules\store\command-exists@1.2.8\node_modules\command-exists
```

```
[5/10] minimist@1.2.5 installed at node_modules\store\minimist@1.2.8\node_modules\minimist
```

```
[6/10] bluebird@3.5.5 installed at node_modules\store\bluebird@3.7.2\node_modules\bluebird
```

```
[7/10] chalk@4.0.0 installed at node_modules\store\chalk@4.1.2\node_modules\chalk
```

```
[8/10] hexo-fs@3.0.1 installed at node_modules\store\hexo-fs@3.1.0\node_modules\hexo-fs
```

```
[9/10] resolve@1.11.0 installed at node_modules\store\resolve@1.22.1\node_modules\resolve
```

```
[10/10] hexo-util@2.0.0 installed at node_modules\store\hexo-util@2.7.0\node_modules\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\Lenovo1\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
```

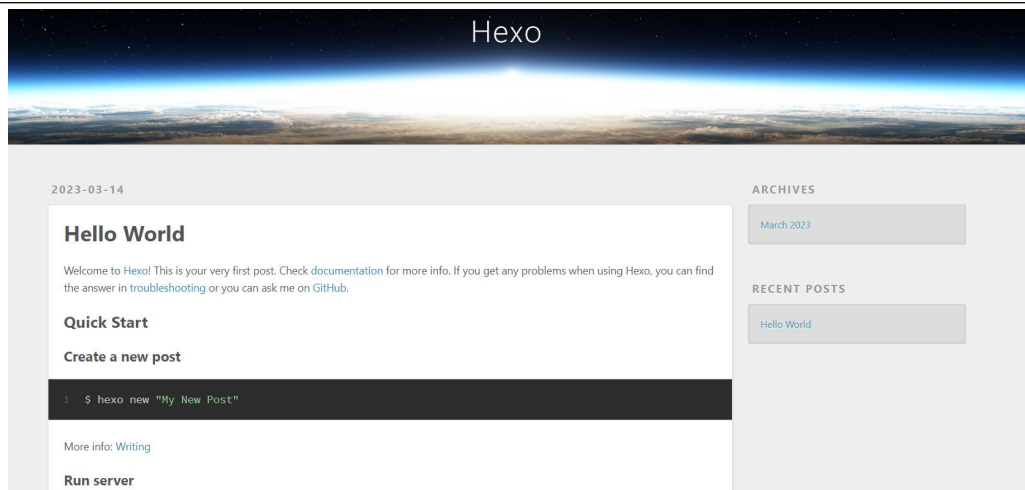
```
INFO Hexo is running at http://localhost:4000/. Press Ctrl+C to stop.
```

```
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

```
Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/cloud_blog
$ ssh-keygen -t rsa -C ''
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/Lenovo1/.ssh/id_rsa):
Created directory '/c/Users/Lenovo1/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/Lenovo1/.ssh/id_rsa
Your public key has been saved in /c/Users/Lenovo1/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:kBQIabeGwBji7LzEgTi9GcfF1aXyuMJ3NAJKk29JrxY 3526211563@qq.com
The key's randomart image is:
+---[RSA 3072]-----+
|=.0 0+0.. ..|
|000.0+.. ..|
|+*00*=. . .|
|+.0*0= = +|
| =0.. E S +|
|. . 0 0 + .|
|. = 0 .|
|. 0 .|
+-----[SHA256]-----+
```

本地验证绑定成功并收到邮箱

```
Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/cloud_blog
$ ssh -T git@github.com
The authenticity of host 'github.com (20.205.243.166)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhpbZisF/zLDA0zPMSvHdkr4UvCOqU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
Hi qq626! You've successfully authenticated, but GitHub does not provide shell access.
```

#### ⑤上传测试博客 需要先安装一个上传工具

```
Lenovo1@LAPTOP-6BLFD8BS MINGW64 /e/cloud_blog
$ cnpm install hexo-deployer-git
√ Linked 47 latest versions fallback to E:\cloud_blog\node_modules\.store\node_modules
√ Installed 1 packages on E:\cloud_blog
√ All packages installed (48 packages installed from npm registry, used 4s(network 4s), speed 767.54KB/s, json 48(331.04KB), tarball 11 3.01MB, manifests cache hit 0, etag hit 0 / miss 0)
dependencies:
+ hexo-deployer-git ^4.0.0
```

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。