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：　　　20230318	

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 or Linux

实验步骤与内容：

安装 hexo

```
C:\Users\SLY>npm install -g hexo-cli

added 59 packages, and audited 60 packages in 6s

15 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
npm notice
npm notice New major version of npm available! 8.15.0 -> 9.6.1
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.6.1
npm notice Run npm install -g npm@9.6.1 to update!
npm notice
```

用 hexo -v 查看一下版本

```
C:\Users\SLY>hexo -v
hexo-cli: 4.3.0
os: win32 10.0.19044
node: 16.17.1
v8: 9.4.146.26-node.22
uv: 1.43.0
zlib: 1.2.11
brotli: 1.0.9
ares: 1.18.1
modules: 93
nghttp2: 1.47.0
napi: 8
llhttp: 6.0.9
```
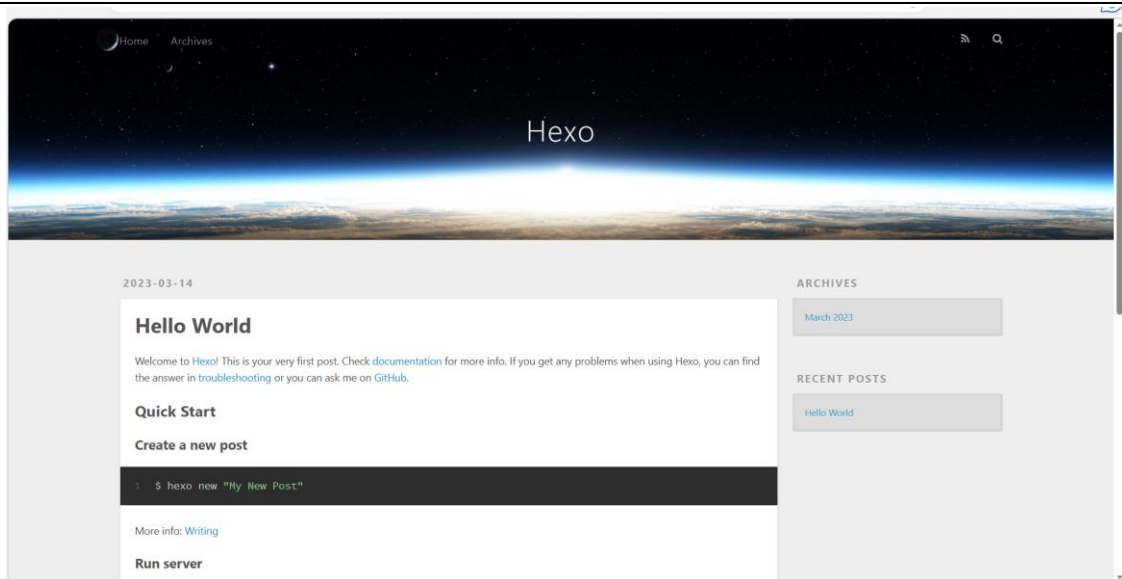
初始化一下 hexo

```
C:\Users\SLY>hexo init myblog
INFO  Cloning hexo-starter https://github.com/hexojs/hexo-starter.
INFO  Install dependencies
INFO  Start blogging with Hexo!
```

```
C:\Users\SLY>cd myblog

C:\Users\SLY\myblog>npm install

up to date, audited 240 packages in 787ms

22 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```
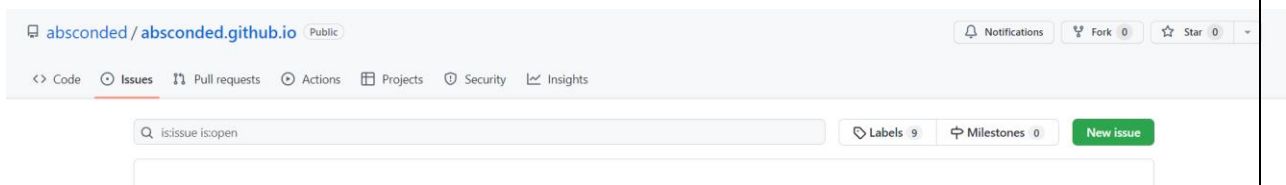
```
C:\Users\SLY\myblog>hexo g
INFO  Validating config
INFO  Start processing
INFO  Files loaded in 252 ms
INFO  Generated: archives/index.html
INFO  Generated: archives/2023/index.html
INFO  Generated: index.html
INFO  Generated: archives/2023/03/index.html
INFO  Generated: fancybox/jquery.fancybox.min.css
INFO  Generated: js/script.js
INFO  Generated: css/style.css
INFO  Generated: js/jquery-3.4.1.min.js
INFO  Generated: fancybox/jquery.fancybox.min.js
INFO  Generated: css/fonts/fontawesome-webfont.woff
INFO  Generated: css/fonts/FontAwesome.otf
INFO  Generated: css/fonts/fontawesome-webfont.woff2
INFO  Generated: css/images/banner.jpg
INFO  Generated: css/fonts/fontawesome-webfont.eot
INFO  Generated: 2023/03/14/hello-world/index.html
INFO  Generated: css/fonts/fontawesome-webfont.ttf
INFO  Generated: css/fonts/fontawesome-webfont.svg
INFO  17 files generated in 487 ms

C:\Users\SLY\myblog>hexo sever
```

```
C:\Users\SLY\myblog>hexo server
INFO  Validating config
INFO  Start processing
INFO  Hexo is running at http://localhost:4000/ . Press Ctrl+C to stop.
```

打开 hexo 的服务，在浏览器输入 localhost:4000 就可以看到生成的博客了

GitHub 创建个人仓库

部署到 GitHub 中的错误：


```
C:\Users\SLY\myblog>hexo d
INFO  Validating config
INFO  Deploying: git
INFO  Setting up Git deployment...
Initialized empty Git repository in C:/Users/SLY/myblog/.deploy_git/.git/
[master (root-commit) b60588c] 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...
warning: in the working copy of '2023/03/14/hello-world/index.html', LF will be replaced by CRLF t
es it
warning: in the working copy of 'archives/2023/03/index.html', LF will be replaced by CRLF the nex
warning: in the working copy of 'archives/2023/index.html', LF will be replaced by CRLF the next t
warning: in the working copy of 'archives/index.html', LF will be replaced by CRLF the next time G
warning: in the working copy of 'css/fonts/fontawesome-webfont.svg', LF will be replaced by CRLF t
es it
warning: in the working copy of 'css/style.css', LF will be replaced by CRLF the next time Git tou
warning: in the working copy of 'fancybox/jquery.fancybox.min.js', LF will be replaced by CRLF the
 it
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touche
warning: in the working copy of 'js/jquery-3.4.1.min.js', LF will be replaced by CRLF the next tim
warning: in the working copy of 'js/script.js', LF will be replaced by CRLF the next time Git touc
[master bce822a] Site updated: 2023-03-14 19:29:12
 18 files changed, 5172 insertions(+)
 create mode 100644 2023/03/14/hello-world/index.html
 create mode 100644 archives/2023/03/index.html
 create mode 100644 archives/2023/index.html
 create mode 100644 archives/index.html
```

```
   INFO  Validating config
   INFO  Deploying: git
   INFO  Clearing .deploy_git folder...
   INFO  Copying files from public folder...
   INFO  Copying files from extend dirs...
On branch master
nothing to commit, working tree clean
   INFO  Bye!
```

```
   INFO  catch you later
PS C:\Users\SLY\myblog> hexo clean
   INFO  Validating config
   INFO  Deleted database.
   INFO  Deleted public folder.
PS C:\Users\SLY\myblog> hexo deploy -g
   INFO  Validating config
   INFO  Start processing
   INFO  Files loaded in 222 ms
   INFO  Generated: archives/index.html
   INFO  Generated: archives/2023/index.html
   INFO  Generated: js/script.js
   INFO  Generated: index.html
   INFO  Generated: css/style.css
   INFO  Generated: fancybox/jquery.fancybox.min.css
   INFO  Generated: css/fonts/fontawesome-webfont.woff
   INFO  Generated: archives/2023/03/index.html
   INFO  Generated: js/jquery-3.4.1.min.js
   INFO  Generated: fancybox/jquery.fancybox.min.js
   INFO  Generated: css/fonts/fontawesome-webfont.woff2
   INFO  Generated: css/images/banner.jpg
   INFO  Generated: css/fonts/FontAwesome.otf
   INFO  Generated: css/fonts/fontawesome-webfont.eot
   INFO  Generated: css/fonts/fontawesome-webfont.ttf
   INFO  Generated: 2023/03/14/hello-world/index.html
   INFO  Generated: css/fonts/fontawesome-webfont.svg
   INFO  17 files generated in 455 ms
   INFO  Deploying: git
```
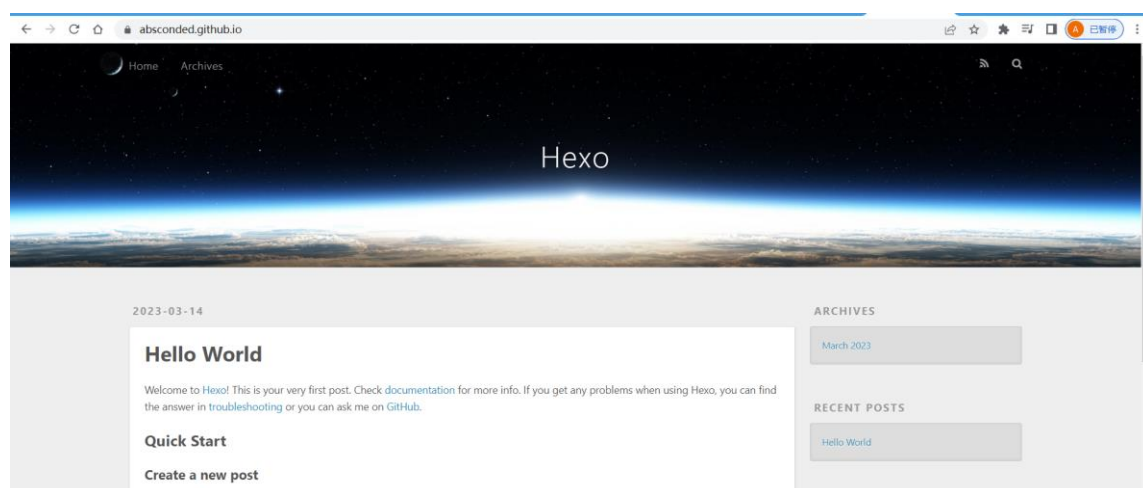
经反复检查应该还是受网络限制问题，手动将 GitHub IP 添加到 hosts 文件内再次上传可以

```
PS C:\Users\SLY\myblog> hexo d
   INFO  Validating config
   INFO  Deploying: git
   INFO  Clearing .deploy_git folder...
   INFO  Copying files from public folder...
   INFO  Copying files from extend dirs...
On branch master
nothing to commit, working tree clean
Enumerating objects: 50, done.
Counting objects: 100% (50/50), done.
Delta compression using up to 12 threads
Compressing objects: 100% (34/34), done.
Writing objects: 100% (50/50), 883.58 KiB | 2.13 MiB/s, done.
Total 50 (delta 7), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (7/7), done.
To github.com:absconded/absconded.github.io.git
 * [new branch]      HEAD -> main
branch 'master' set up to track 'git@github.com:absconded/absconded.github.io.git/main'.
   INFO  Deploy done: git
PS C:\Users\SLY\myblog> []
```

此时直接输入域名即可直接访问

至于对个人博客实际内容的添加由于暂无需求并未继续进行

结论分析与体会：

Hexo 是一个快速、简洁且高效的博客框架，它可以使用 Markdown 或其他渲染引擎解析文章，并利用各种主题生成静态网页

优点主要有：

1. 安装和使用比较简单，只需要安装 Node.js 和 Git，然后执行几条命令就可以创建、部署和管理博客

2. 支持多种主题和插件，可以根据个人喜好和需求定制博客的外观和功能

3. 可以配合 Github Pages 或其他平台托管博客，实现免费、稳定、安全的在线访问

4. 生成的是静态网页，所以博客的加载速度很快，也不需要数据库或服务器的支持

缺点或不足：更新主题或插件可能会导致一些问题；文章管理不够方便；评论功能需要借助第三方服务等