HW5

radiks-server环境搭建

MongoDB安装

- 安装命令

```
$ sudo apt-get install -y mongodb
```

- 检查服务启动状态

```
$ sudo systemctl status mongodb
● mongodb.service - An object/document-oriented database
  Loaded: loaded (/lib/systemd/system/mongodb.service; enabled; vendor preset: enabled)
  Active: active (running) since Tue 2020-03-31 19:45:16 CST; 30s ago
    Docs: man:mongod(1)
 Main PID: 2393 (mongod)
   Tasks: 23 (limit: 4915)
  CGroup: /system.slice/mongodb.service
          └─2393 /usr/bin/mongod --unixSocketPrefix=/run/mongodb --config /etc/mongodb.conf
```
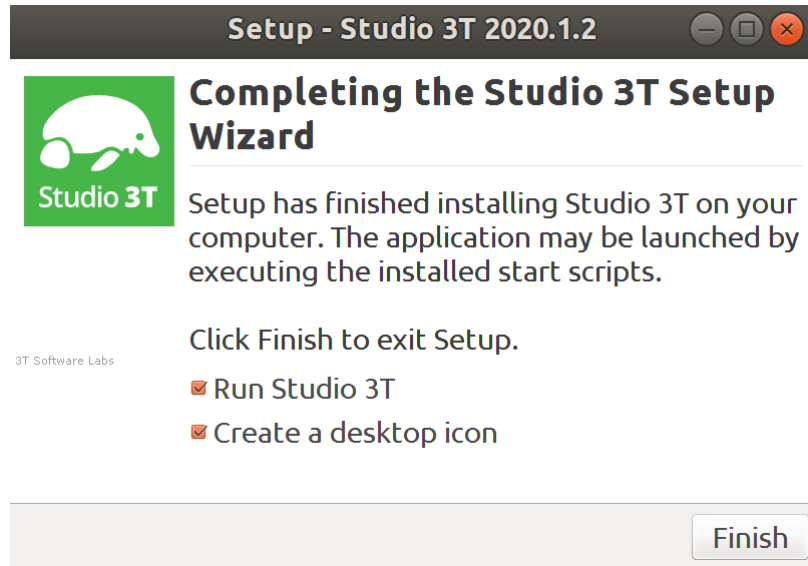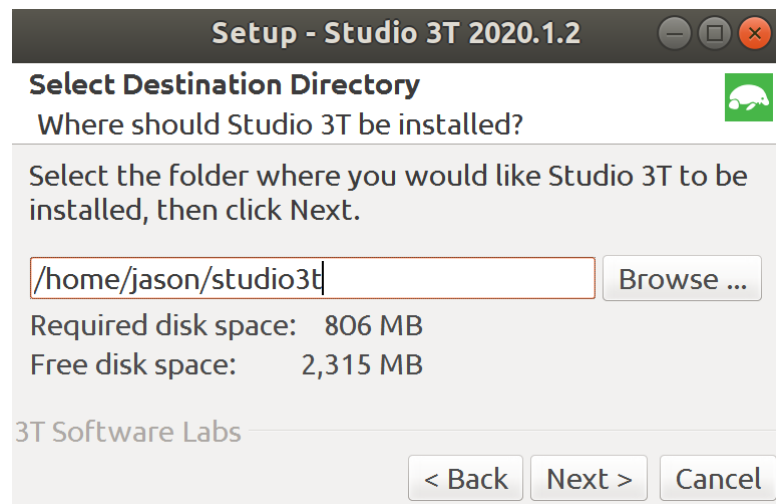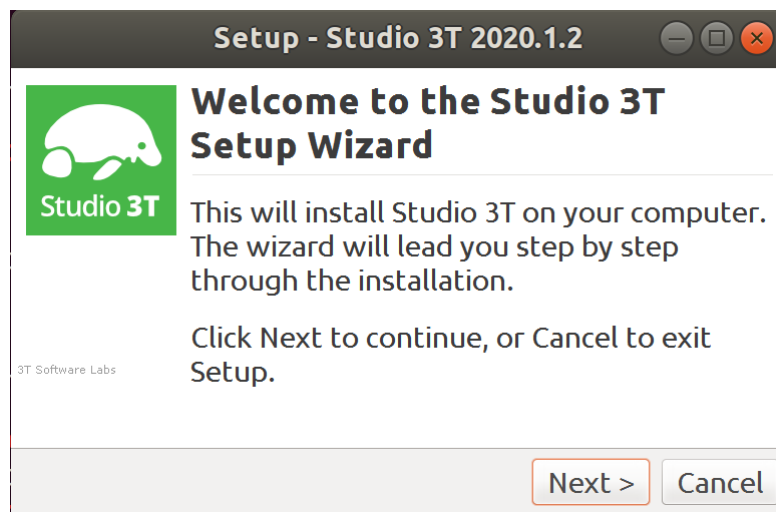
- 版本查看

```
$ mongod --version
db version v3.6.3
git version: 9586e557d54ef70f9ca4b43c26892cd55257e1a5
OpenSSL version: OpenSSL 1.1.1  11 Sep 2018
allocator: tcmalloc
modules: none
build environment:
    distarch: x86_64
    target_arch: x86_64
```

- 图形工具安装

> 参考：https://www.techrunnr.com/install-robomongo-robo-3t-on-ubuntu-18-04/

下载地址：https://robomongo.org/download

```
$ wget https://download-test.robomongo.org/linux/studio-3t-robo-3t-linux-double-pack.tar.gz
```

radiks-server安装

- 安装命令

```
$ npm install -g radiks-server
```

- 服务启动

```
$ radiks-server
radiks-server is ready on http://localhost:1260
```

radiks安装

```
[BlockstackPan] (master)$ npm install --save radiks

[BlockstackPan] (master)$ git diff package.json
diff --git a/package.json b/package.json
index 562dab8..bdf5266 100644
--- a/package.json
+++ b/package.json
@@ -13,6 +13,7 @@
  "license": "MIT",
  "dependencies": {
    "blockstack": "^19.2.5",
+   "radiks": "^0.2.2-beta.1",
    "react": "^16.8.6",
    "react-dom": "^16.8.6",
    "react-router-dom": "^4.3.1",
```

跑通feature-radiks分支

留言板消息提交

登录操作

- 用户使用Blockstatck ID登录时，完成radiks-server账号的注册

save操作

- 代码片段

```
 92
 93    render() {
 94      const { classes } = this.props;
 95
 96      const message = new Message({
 97        from : "jasonrzx.id.blockstack",
 98        content : "Hello blockstack",
 99        flag: true
100      })
101
```

- 点击SAVE按钮

- 页面查看数据

  https://gaia.blockstack.org/hub/18emJW4mhvbAmZDWo8GahMJAzzSCPoB9LA/Message/21835d14c2af-4f12-b7d0-0ac4570bc7a1

- MongoDB查数据

  ID: 21835d14c2af-4f12-b7d0-0ac4570bc7a1

update操作

- 代码片段

```
109      await message.save()
110    }
111
112    const handleUpdate = async() =>{
113      const newAttributes = {
114        from : "jasonrzx.id.blockstack",
115        content: "Hello blockstack V2",
116        flag: false
117      }
118      await message.update(newAttributes)
119    }
120
```

- 先后点击update和save按钮

  可见未加密的flag字段已被更新。

query操作

- 代码片段

- 查询结果

完成自己的Radiks Model设计

```javascript
import { Model } from 'radiks';

export default class FileStore extends Model {
  static className = 'FileStore';

  static schema = {
    // 文件名
    fileName: String,
    // 文件二进制数据
    fileData: String,
    // 文件哈希
    fileSha256: {
      type: String,
      decrypted: true
    },
    // 文件大小
    fileSize: {
      type: Number,
      decrypted: true
    },
  }

  static defaults = {
    content: "Welcome to Jason BlockstatckPan"
  }
}
```