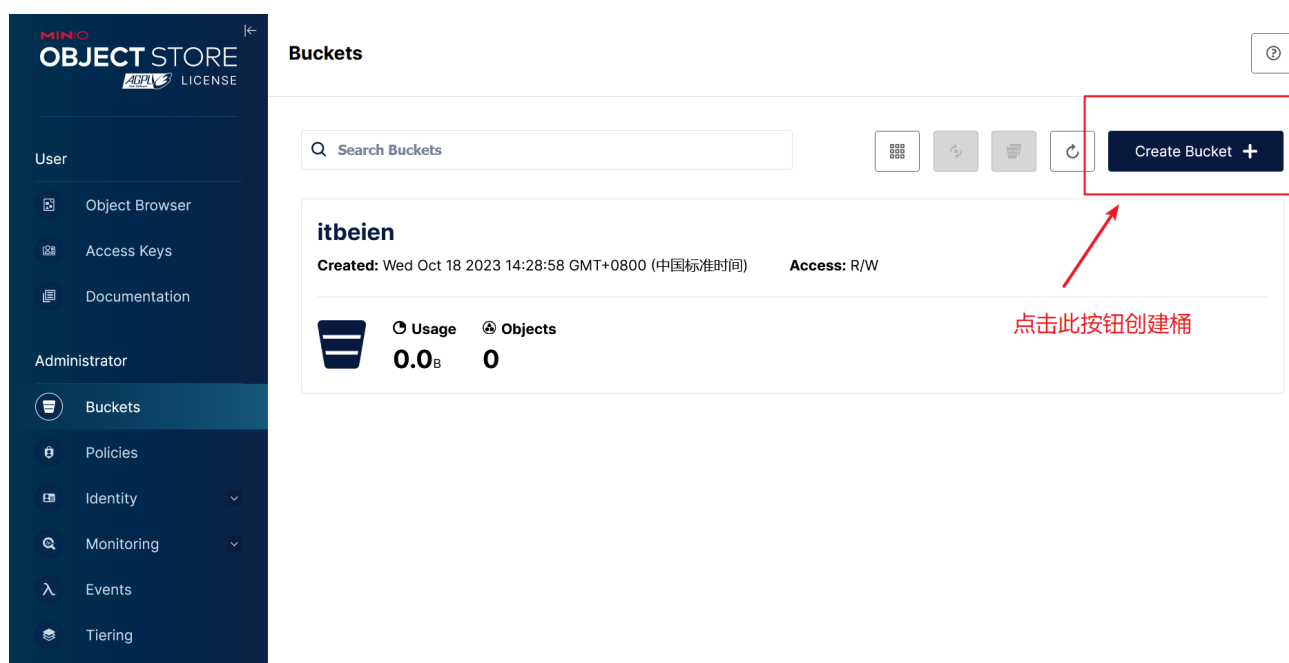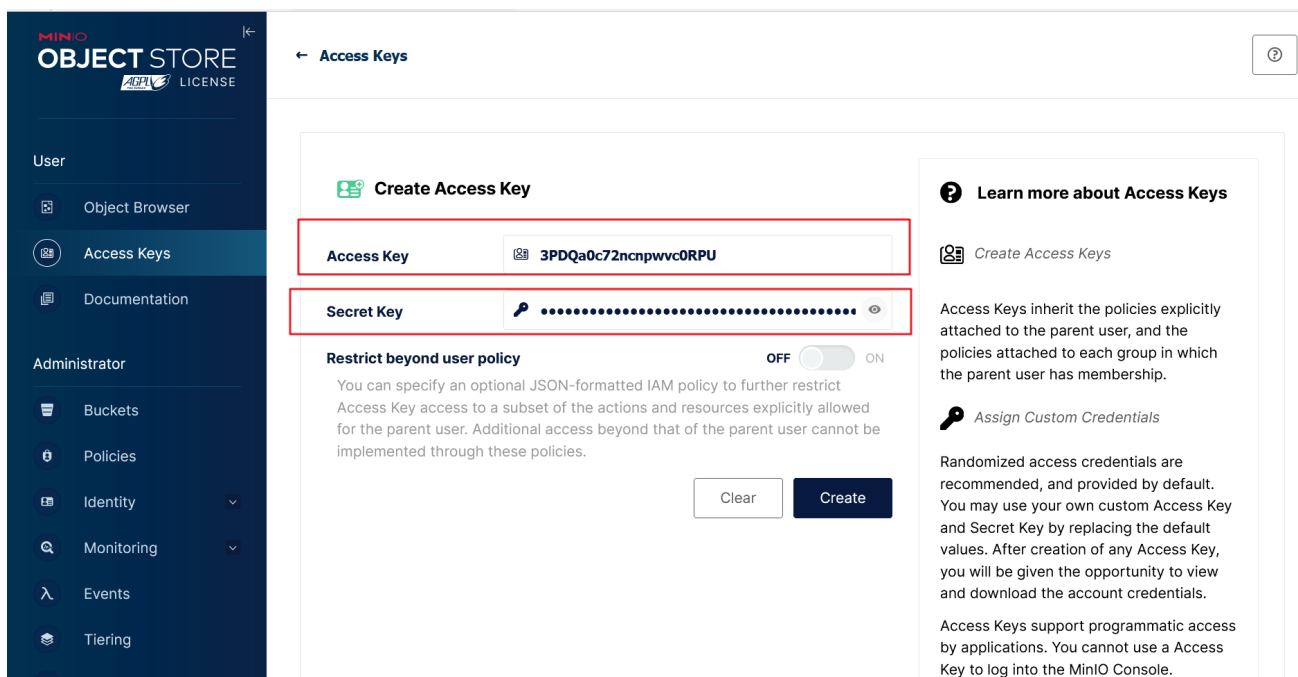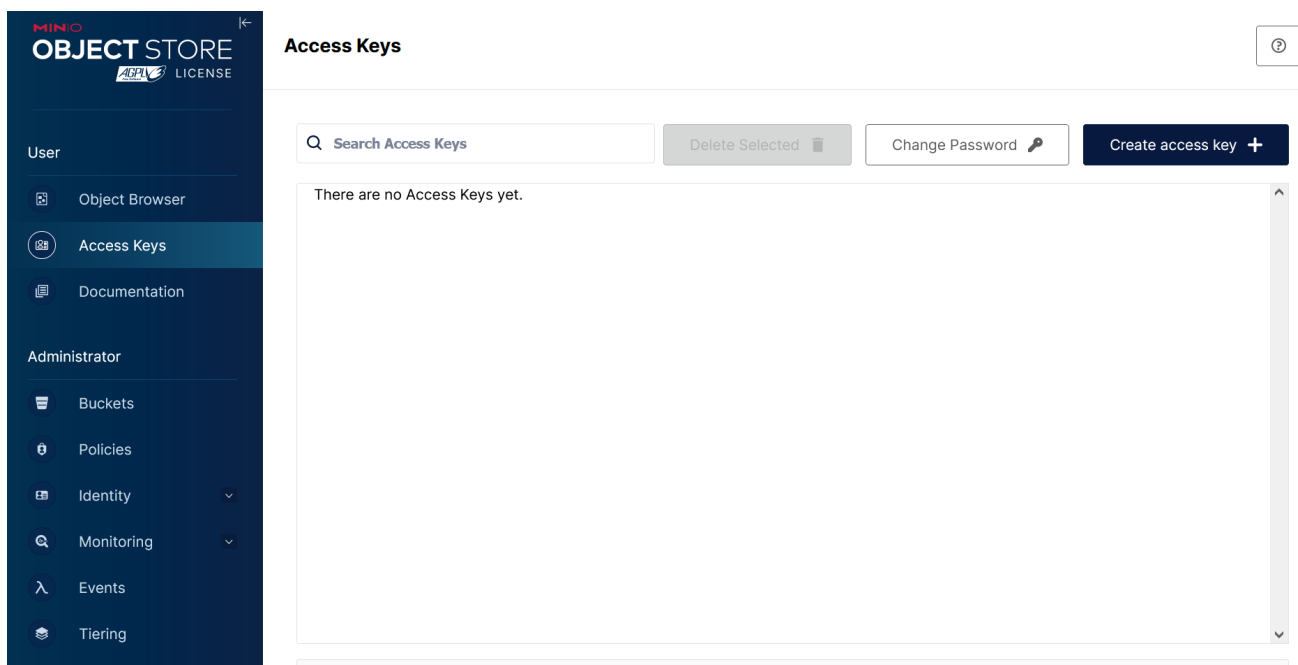公众号　　　微信　　　视频号

关注我跟着做项目学技术

～～～～～～～～

～～～～～～～～

SpringBoot整合自建分布式存储系统Minio实现文件存储

1 访问Minio并设置(Buckets)桶

2 创建Access Keys(获取Access Key和Secret Key)

3 SpringBoot整合Minio实现图片文件上传

3.1.引入依赖

```xml
<dependency>
    <groupId>io.minio</groupId>
    <artifactId>minio</artifactId>
    <version>8.5.6</version>
</dependency>
```

3.2 在 application.yml 文件中加入 MinIO 服务器的相关信息

```yaml
minio:
  endpoint: http://serverip
  port: 9000
  accessKey: 3PDQa0c72ncnpwvc0RPU
  secretKey:
hcEKhVEW6ULIAWm9Td1QjgcMrJF59CdDMb9YboV1
  bucketName: itbeien
  secure: false
```

3.3 创建实体配置类

```java
package cn.itbeien.config;


import io.minio.MinioClient;

import lombok.Getter;
```

```java
import lombok.Setter;
import org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.stereotype.Component;

/**
 * @author beien
 * @date 2023-10-18 14:47
 * Copyright© 2023 beien
 */
@Configuration
@Component
@ConfigurationProperties(prefix = "minio")
@Getter
@Setter
public class MinioConfig {

    private String endpoint;
```

```java
    private int port;

    private String accessKey;

    private String secretKey;

    private Boolean secure;

    private String bucketName;


    @Bean
    public MinioClient getMinioClient() {
        MinioClient minioClient =
MinioClient.builder().endpoint(endpoint,
port, secure)
                .credentials(accessKey,
secretKey)
                .build();
        return minioClient;
    }
}
```

3.4 文件上传工具类

```java
package cn.itbeien.util;



import cn.itbeien.config.MinioConfig;
```

```java
import io.minio.*;
import io.minio.errors.*;
import io.minio.http.Method;
import io.minio.messages.Bucket;
import io.minio.messages.DeleteError;
import io.minio.messages.DeleteObject;
import io.minio.messages.Item;
import lombok.extern.slf4j.Slf4j;
import org.apache.commons.lang3.StringUtils;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Component;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestParam;

import
```

```java
org.springframework.web.multipart.Multipar
tFile;

/**
 * @author beien
 * @date 2023-10-18 15:14
 * Copyright© 2023 beien
 */
@Component
@Slf4j
public class MinioClientUtil {
    @Autowired
    private MinioClient minioClient;

    @Autowired
    private MinioConfig minioConfig;

    private static final int
DEFAULT_EXPIRY_TIME = 7 * 24 * 3600;

    /**
     * 上传文件
     * @param file
     * @param bucket

     * @return
```

```java
 * @throws Exception
 */
public String upload(MultipartFile
file,String bucket) throws Exception {
    String path =
file.getOriginalFilename();

 minioClient.putObject(PutObjectArgs.builder()
                // 存储桶
                .bucket(bucket)
                // 文件名
                .object(path)
                // 文件内容

.stream(file.getInputStream(),
file.getSize(), -1)
                // 文件类型

.contentType(file.getContentType()).build());


        return String.format("上传成功：
```

```java
%s/%s/%s",
minioConfig.getEndpoint()+":"+minioConfig.
getPort(), bucket, path);
    }

    /**
     * 删除文件
     * @param path
     * @param bucket
     * @return
     * @throws Exception
     */
    public String delete(String
path,String bucket) throws Exception {

 minioClient.removeObject(RemoveObjectArgs
.builder()
                // 存储桶
                .bucket(bucket)
                // 文件名
                .object(path).build());



        return String.format("删除成功：
```

```
%s/%s/%s",
minioConfig.getEndpoint()+":"+minioConfig.
getPort(), bucket, path);
    }


}
```

3.5 文件上传Controller

```java
package cn.itbeien.controller;

import cn.itbeien.config.MinioConfig;
import cn.itbeien.util.MinioClientUtil;
import io.minio.MinioClient;
import io.minio.PutObjectArgs;
import io.minio.RemoveObjectArgs;
import
org.springframework.beans.factory.annotati
on.Autowired;
import
org.springframework.web.bind.annotation.*;


import
```

```java
org.springframework.web.multipart.Multipar
tFile;

/**
 * @author beien
 * @date 2023-10-18 15:52
 * Copyright© 2023 beien
 */
@RestController
@RequestMapping("/file")
public class MinioController {

    @Autowired
    private MinioClientUtil
minioClientUtil;

    /**
     * 上传文件
     * @param file
     * @param bucket
     * @return
     * @throws Exception
     */
    @PostMapping("/upload")

    public String
```
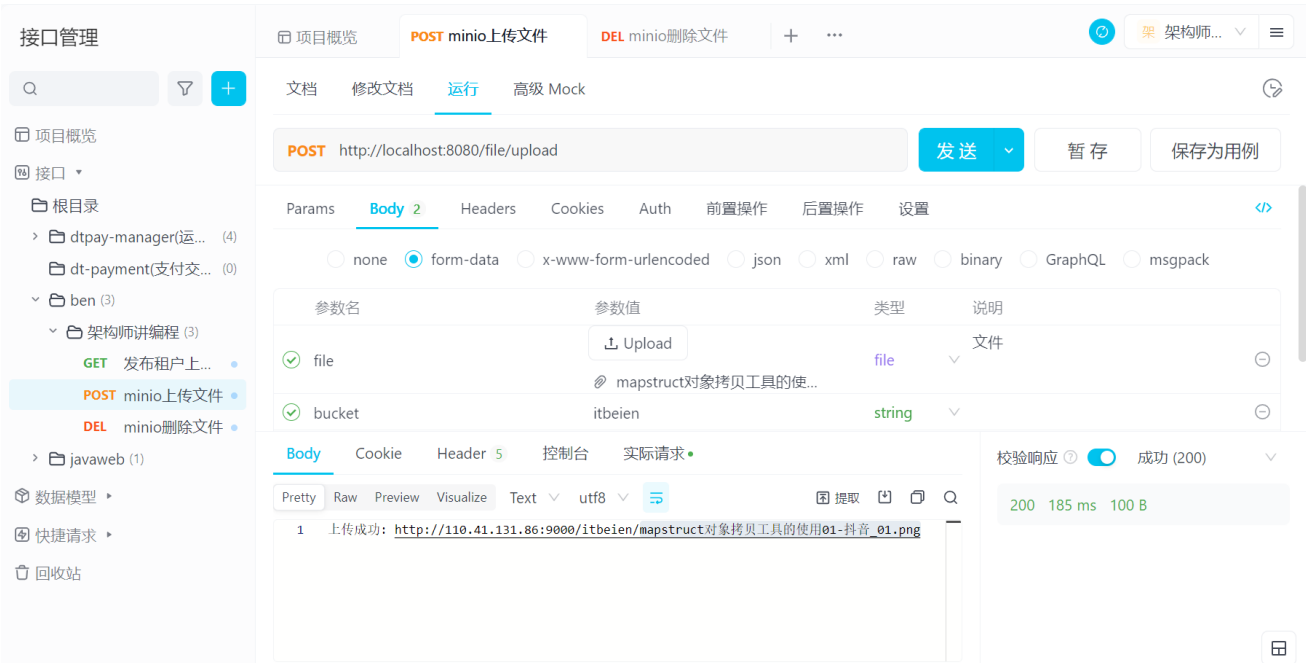
```java
upload(@RequestParam("file") MultipartFile
file, @RequestParam("bucket") String
bucket) throws Exception {
        String path =
minioClientUtil.upload(file,bucket);
        return path;
    }


    /**
     * 删除文件
     * @param path
     * @param bucket
     * @return
     * @throws Exception
     */
    @DeleteMapping("/delete")
    public String
delete(@RequestParam("path") String path,
@RequestParam("bucket") String bucket)
throws Exception {
        String result =
minioClientUtil.delete(path,bucket);
        return result;
    }

}
```

3.6 接口测试

4 SpringBoot整合Minio实现视频上传