

6-21 | 接口鉴权模块的开发

账户服务的职责

负责对外界请求的 token 进行校验，需要频繁访问 redis

构建步骤

新建账户服务

1. qiyu-live-account-provider
1. qiyu-live-account-interface

配置文件：

qiyu-live-account-provider 引入的 maven 依赖：

XML

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <parent>
        <groupId>org.idea</groupId>
        <artifactId>qiyu-live-app</artifactId>
        <version>1.0-SNAPSHOT</version>
    </parent>
    <artifactId>qiyu-live-account-provider</artifactId>
    <version>1.0.1</version>

    <properties>
        <qiyu-live-redis-starter.version>1.0-SNAPSHOT</qiyu-live-
redis-starter.version>
        <qiyu-live-account-interface.version>1.0-SNAPSHOT</qiyu-
live-account-interface.version>
        <qiyu-live-common-interface.version>1.0-SNAPSHOT</qiyu-
live-common-interface.version>
    </properties>
```

```
<dependencies>
  <dependency>
    <groupId>org.idea</groupId>
    <artifactId>qiyu-live-account-interface</artifactId>
    <version>${qiyu-live-account-interface.version}</version>
  </dependency>
  <dependency>
    <groupId>org.idea</groupId>
    <artifactId>qiyu-live-common-interface</artifactId>
    <version>${qiyu-live-common-interface.version}</version>
  </dependency>
  <dependency>
    <groupId>org.idea</groupId>
    <artifactId>qiyu-live-framework-redis-starter</artifactId>
    <version>${qiyu-live-redis-starter.version}</version>
  </dependency>
  <dependency>
    <groupId>org.apache.dubbo</groupId>
    <artifactId>dubbo-spring-boot-starter</artifactId>
    <version>${dubbo.version}</version>
  </dependency>
  <dependency>
    <groupId>com.alibaba.cloud</groupId>
    <artifactId>spring-cloud-starter-alibaba-nacos-
discovery</artifactId>
  </dependency>
  <dependency>
    <groupId>com.alibaba.cloud</groupId>
    <artifactId>spring-cloud-starter-alibaba-nacos-
config</artifactId>
  </dependency>
  <dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-bootstrap</artifactId>
    <version>${spring-cloud-bootstrap.version}</version>
  </dependency>
</dependencies>
```

```
</project>
```

新建 bootstrap.yml 配置文件：

```
YAML
spring:
  cloud:
    nacos:
      username: ${NACOS_USER}
      password: ${NACOS_PWD}
      discovery:
        server-addr: qiyu.nacos.com:8848
        namespace: qiyu-live-test
      config:
        import-check:
          enabled: false
        # 当前服务启动后去 nacos 中读取配置文件的后缀
        file-extension: yaml
        # 读取配置的 nacos 地址
        server-addr: qiyu.nacos.com:8848
        # 读取配置的 nacos 的名空间
        namespace: qiyu-live-test
      config:
        import:
          - optional:nacos:qiyu-live-account-provider.yaml
```

nacos 配置文件：

```
YAML
spring:
  application:
    name: qiyu-live-account-provider
  data:
    redis:
      port: 8801
      host: cloud.db
      password: qiyu
    lettuce:
      pool:
        min-idle: 10
        max-active: 100
        max-idle: 10

dubbo:
```

```
application:
  name: ${spring.application.name}
registry:
  #docker 启动的时候，注入 host 的配置
  address: nacos://qiyu.nacos.com:8848?namespace=qiyu-live-
test&&username=qiyu&&password=qiyu
protocol:
  name: dubbo
  port: 9090
  threadpool: fixed
  dispatcher: execution
  threads: 500
  accepts: 500
```

新建 logback.xml 配置文件：

```
XML
<?xml version="1.0" encoding="UTF-8"?>
<configuration>
  <springProperty name="APP_NAME" scope="context"
source="spring.application.name" defaultValue="undefined"/>
  <!-- 用于生成一个标识，防止多个 Docker 容器映射到同一台宿主机上出现
目录名重复问题-->
  <define name="index"
class="org.qiyu.live.common.interfaces.utils.IpLogConversionRule"/
>
  <property name="LOG_HOME" value="/tmp/logs/${APP_NAME}/${
{index}"/>
  <property name="LOG_PATTERN" value="[%d{yyyy-MM-dd
HH:mm:ss.SSS} -%5p] %-40.40logger{39} :%msg%n"/>

  <!-- 控制台标准继续输出内容 -->
  <appender name="CONSOLE"
class="ch.qos.logback.core.ConsoleAppender">
    <!-- 日志输出的格式 -->
    <layout class="ch.qos.logback.classic.PatternLayout">
      <pattern>${LOG_PATTERN}</pattern>
    </layout>
  </appender>

  <!-- info 级别的日志，记录到对应的文件内 -->
  <appender name="INFO_FILE"
class="ch.qos.logback.core.rolling.RollingFileAppender">
```

```

        <file>${LOG_HOME}/${APP_NAME}.log</file>
        <!-- 滚动策略，日志生成的时候会按照时间来进行分类，例如 2023-
05-11 日的日志，后缀就会有 2023-05-11，每天的日志归档后的名字都不一样
-->
        <rollingPolicy
class="ch.qos.logback.core.rolling.TimeBasedRollingPolicy">
            <fileNamePattern>${LOG_HOME}/${APP_NAME}.log.%d{yyyy-
MM-dd}</fileNamePattern>
            <!-- 日志只保留 1 个月 -->
            <maxHistory>1</maxHistory>
        </rollingPolicy>
        <!-- 日志输出的格式 -->
        <layout class="ch.qos.logback.classic.PatternLayout">
            <pattern>${LOG_PATTERN}</pattern>
        </layout>
    </appender>

    <!-- error 级别的日志，记录到对应的文件内 -->
    <appender name="ERROR_FILE"
class="ch.qos.logback.core.rolling.RollingFileAppender">
        <file>${LOG_HOME}/${APP_NAME}_error.log</file>
        <!-- 滚动策略，日志生成的时候会按照时间来进行分类，例如 2023-
05-11 日的日志，后缀就会有 2023-05-11，每天的日志归档后的名字都不一样
-->
        <rollingPolicy
class="ch.qos.logback.core.rolling.TimeBasedRollingPolicy">
            <fileNamePattern>${LOG_HOME}/${APP_NAME}_error.log.
%d{yyyy-MM-dd}</fileNamePattern>
            <!-- 日志只保留 1 个月 -->
            <maxHistory>1</maxHistory>
        </rollingPolicy>
        <!-- 日志输出的格式 -->
        <layout class="ch.qos.logback.classic.PatternLayout">
            <pattern>${LOG_PATTERN}</pattern>
        </layout>
        <!-- 值记录 error 级别的日志 -->
        <filter class="ch.qos.logback.classic.filter.LevelFilter">
            <level>error</level>
            <onMismatch>DENY</onMismatch>
        </filter>
    </appender>

    <!-- 根输出级别为 INFO，控制台中将出现包含 info 及以上级别的日志-->
    <!-- 日志输出级别 -->

```

```
<root level="INFO">
    <!-- ref 值与上面的 appender 标签的 name 相对应 -->
    <appender-ref ref="CONSOLE"/>
    <appender-ref ref="INFO_FILE"/>
    <appender-ref ref="ERROR_FILE"/>
</root>
</configuration>
```

定义账户服务的 token 校验接口；

```
Java
public interface IAccountTokenRPC {

    /**
     * 创建一个登录 token
     *
     * @param userId
     * @return
     */
    String createAndSaveLoginToken(Long userId);

    /**
     * 校验用户 token
     *
     * @param tokenKey
     * @return
     */
    Long getUserIdByToken(String tokenKey);

}
```

rpc 层实现：

```
Java
package org.qiyu.live.account.provider.rpc;

import jakarta.annotation.Resource;
import org.apache.dubbo.config.annotation.DubboService;
import org.qiyu.live.account.interfaces.IAccountTokenRPC;
import
```

```

org.qiyu.live.account.provider.service.IAccountTokenService;

/**
 * @Author idea
 * @Date: Created in 10:18 2023/6/20
 * @Description
 */
@Service
public class AccountTokenRPCImpl implements IAccountTokenRPC {

    @Resource
    private IAccountTokenService accountTokenService;

    @Override
    public String createAndSaveLoginToken(Long userId) {
        return
accountTokenService.createAndSaveLoginToken(userId);
    }

    @Override
    public Long getUserIdByToken(String tokenKey) {
        return accountTokenService.getUserIdByToken(tokenKey);
    }

}

```

service 接口 :

```

Java
package org.qiyu.live.account.provider.service;

/**
 * @Author idea
 * @Date: Created in 10:21 2023/6/20
 * @Description
 */
public interface IAccountTokenService {

    /**
     * 创建一个登录 token
     *
     * @param userId
     * @return
     */
}

```

```

String createAndSaveLoginToken(Long userId);

/**
 * 校验用户 token
 *
 * @param tokenKey
 * @return
 */
Long getUserIdByToken(String tokenKey);
}

```

service 层实现：

```

Java
package org.qiyu.live.account.provider.service.impl;

import jakarta.annotation.Resource;
import org.idea.qiyu.live.framework.redis.starter.key.AccountProviderCacheKeyBuilder;
import org.qiyu.live.account.provider.service.IAccountTokenService;
import org.springframework.data.redis.core.RedisTemplate;
import org.springframework.stereotype.Service;

import java.util.UUID;
import java.util.concurrent.TimeUnit;

/**
 * @Author idea
 * @Date: Created in 10:21 2023/6/20
 * @Description
 */
@Service
public class AccountTokenServiceImpl implements IAccountTokenService {

    @Resource
    private RedisTemplate<String, String> redisTemplate;
    @Resource
    private AccountProviderCacheKeyBuilder accountProviderCacheKeyBuilder;

    @Override

```



```

        public String createAndSaveLoginToken(Long userId) {
            String tokenKey = UUID.randomUUID().toString();
            String loginTokenKey =
accountProviderCacheKeyBuilder.buildUserLoginToken(tokenKey);
            redisTemplate.opsForValue().set(loginTokenKey,
String.valueOf(userId), 30, TimeUnit.DAYS);
            return tokenKey;
        }

        @Override
        public Long getUserIdByToken(String tokenKey) {
            String loginTokenKey =
accountProviderCacheKeyBuilder.buildUserLoginToken(tokenKey);
            Object value =
redisTemplate.opsForValue().get(loginTokenKey);
            if (value == null) {
                return null;
            }
            return
Long.valueOf(redisTemplate.opsForValue().get(loginTokenKey));
        }
    }
}

```

springboot 启动类：

```

Java
package org.qiyu.live.account.provider;

import
org.apache.dubbo.config.spring.context.annotation.EnableDubbo;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.WebApplicationType;
import
org.springframework.boot.autoconfigure.SpringBootApplication;
import
org.springframework.cloud.client.discovery.EnableDiscoveryClient;

/**
 * @Author idea
 * @Date: Created in 10:13 2023/6/20
 * @Description
 */

```

```
@SpringBootApplication
@EnableDubbo
@EnableDiscoveryClient
public class AccountProviderApplication {

    public static void main(String[] args) {
        SpringApplication springApplication = new
        SpringApplication(AccountProviderApplication.class);

        springApplication.setWebApplicationType(WebApplicationType.NONE);
        springApplication.run(args);
    }
}
```