

# Jedis测试操作

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2018/04/08

## 准备工作:

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下载Eclipse+Maven并配置

1.Eclipse+Java下载解压即可

2.maven配置参考如下文章配置

Eclipse+Maven整合开发Java项目（一）>Maven基础环境配置

<https://www.cnblogs.com/xibei666/p/6706512.html>

配置环境变量:

MAVEN\_HOME

D:\JavaTools\apache-maven-3.5.3

PATH

%MAVEN\_HOME%\bin

如下版本信息:

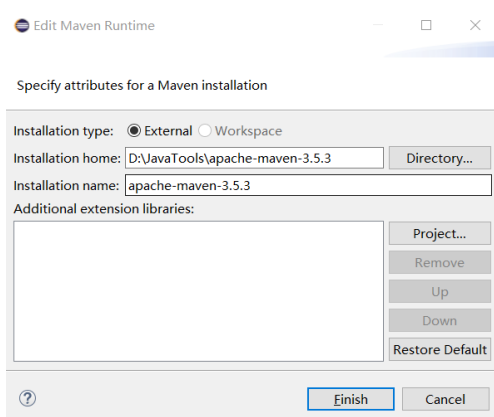
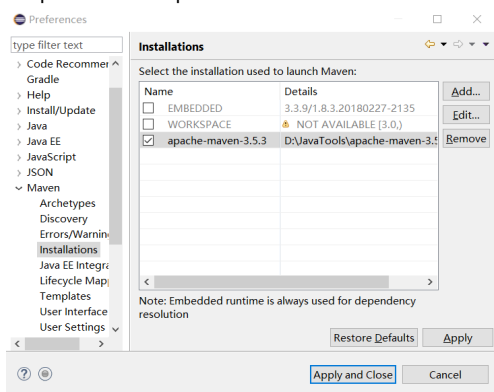
```
C:\Users\honglin>mvn -version
Apache Maven 3.5.3 (3383c37e1f9e9b3bc3df5050c29c8aff9f295297; 2018-02-25T03:49:05+08:00)
Maven home: D:\JavaTools\apache-maven-3.5.3\bin\..
Java version: 1.8.0_162, vendor: Oracle Corporation
Java home: C:\Program Files\Java\jdk1.8.0_162\jre
Default locale: zh_CN, platform encoding: MS932
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\honglin>
```

利用Eclipse+maven编译Jedis源码成jar包和源码jar包

<http://www.mamicode.com/info-detail-505779.html>

Eclipse: windows/preferences



Java开发-Redis客户端Jedis

<https://blog.csdn.net/fjssharpword/article/details/50637061>

关于Maven项目build时出现No compiler is provided in this environment的处理

<https://blog.csdn.net/slkl9898/article/details/73836745>

下载源码 maven install生成jar包

<https://github.com/xetorthio/jedis>

生成了redis jar包

D:\JavaTools\apache-maven-salt\Restory\redis\clients\jedis\2.9.0\

```
名称
remote.repositories
jedis-2.9.0.jar
jedis-2.9.0.jar.sha1
jedis-2.9.0.pom
jedis-2.9.0.pom.sha1
jedis-2.9.0-sources.jar
jedis-2.9.0-sources.jar.sha1
m2e-lastUpdated.properties
```

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## 测试工作：

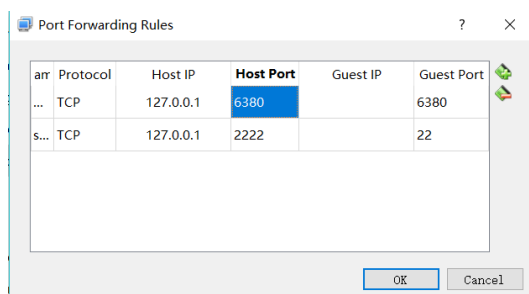
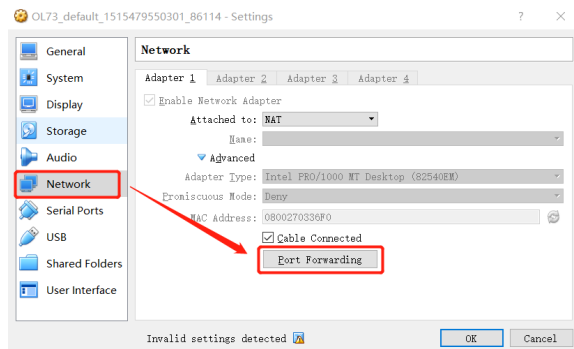
启动Redis服务器

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```
root@oraclelinux7:~# ps -ef | grep redis
root  9879  1 00:38 ?    00:00:03 /root/redis-3.0.6/src/redis-server *:6380
root  13941 8188 0 00:56 pts/0  00:00:00 grep --color=auto redis
root@oraclelinux7:~#
```

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virtualbox设置端口跳转（我的是NAT网络模式）



6380端口开通

另外主要linux服务器的防火墙需要关闭

```
root@oraclelinux7:~# systemctl status firewalld
```

仟 firewalld.service - firewalld - dynamic firewall daemon

Loaded: loaded (/usr/lib/systemd/system/firewalld.service; disabled; vendor preset: enabled)

**Active: inactive (dead) -> 保证是inactive (dead) 模式**

Docs: man:firewalld(1)

如果启动的话通过systemctl stop firewalld关闭进行测试

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测试代码：

package com.jedis;

```
import redis.clients.jedis.*;
```

```
import java.util.HashMap;
```

```
import java.util.Map;
```

```

public class test01 {
    private static final JedisPool JEDIS_POOL;

    static {
        JedisPoolConfig config = new JedisPoolConfig();//redis连接池配置对象
        config.setMaxTotal(32);//最大连接数
        config.setMaxIdle(6);//闲置最大连接数
        config.setMinIdle(0);//闲置最小连接数
        config.setMaxWaitMillis(15000);//到达最大连接数后，调用者阻塞时间
        config.setMinEvictableIdleTimeMillis(300000);//连接空闲的最小时间，可能被移除
        config.setSoftMinEvictableIdleTimeMillis(-1);//连接空闲的最小时间，多余最小闲置连接的将被移除
        config.setNumTestsPerEvictionRun(3);//设置每次检查闲置的个数
        config.setTestOnBorrow(false);//申请连接时，是否检查连接有效
        config.setTestOnReturn(false);//返回连接时，是否检查连接有效
        config.setTestWhileIdle(false);//空闲超时,是否执行检查有效
        config.setTimeBetweenEvictionRunsMillis(60000);//空闲检查时间
        config.setBlockWhenExhausted(true);//当连接数耗尽，是否阻塞

        //连接池配置对象+ip+port+timeout+password+dbname
        JEDIS_POOL = new JedisPool(config,"127.0.0.1",6380,10000);//,null,1);
    }

    /**
     * redis中String类型操作：字符串+数字+bit
     */
    public static void stringCmdTest(Jedis jedis){
        System.out.println("-----redis-String-----");
        //set:返回操作结果
        System.out.println("name=>wsy:"+jedis.set("name","wsy"));

        //get:value
        System.out.println("name:"+jedis.get("name"));

        //append:字符串长度
        System.out.println("append:"+jedis.append("name","_ss"));

        //strlen:字符串长度
        System.out.println("strlen:"+jedis.strlen("name"));

        //getrange:返回不包括起始坐标的值
        System.out.println("getrange:"+jedis.getrange("name", 10, 13));

        //setrange:从起始坐标考试替换，未替换的保持
        System.out.println("setrange:"+jedis.setrange("name", 10, "#"));

        //mset:批量设置，返回批量设置结果
        System.out.println("mset:"+jedis.mset("name","wsy","age","29"));

        //mget:返回数组
        System.out.println("mget:"+jedis.mget("name","age"));

        //incr:value自增1后，返回value
        System.out.println("incr:"+jedis.incr("age"));

        //incr:value自增传参值后，返回value
        System.out.println("incrBy:"+jedis.incrBy("age",3));
    }
}

```

```

//decr:value自减1, 返回value
System.out.println("decr:"+jedis.decr("age"));

//decrBy:value自减入参值, 返回value
System.out.println("decrBy:"+jedis.decrBy("age",3));

//setex:设置key值+有效时间, 如果key存在则覆盖value
System.out.println("setex:"+jedis.setex("phone",10,"13600000001"));

//setnx:当key不存在时, 设置才成功
System.out.println("setnx:"+jedis.setnx("address","china"));

//del:删除对应key
System.out.println("del:"+jedis.del("address1"));

System.out.println("-----redis-String-----\n");
}

/**
 * redis中hash类型常用操作
 * @param jedis
 */
public static void hashMapCmdTest(Jedis jedis){
    System.out.println("-----redis-HashMap-----");
    //hset:返回值为key为新返回1, 为旧覆盖旧值返回0
    System.out.println("hset:"+jedis.hset("user","name","wangshaoyi"));

    Map map = new HashMap();
    map.put("name","wsy");
    map.put("age","29");
    //hmset:map对象
    System.out.println("hmset:" + jedis.hmset("user", map));

    //hexists:判断hashmap中key是否存在
    System.out.println("hexists:"+jedis.exists("user","age"));

    //hget:获取map中key对应的value
    System.out.println("hget:"+jedis.hget("user","name"));

    //hgetAll:获取map中所有对象
    System.out.println("hgetAll:"+jedis.hgetAll("user"));

    //hkeys:获取map中所有key
    System.out.println("hkeys:"+jedis.hkeys("user"));

    //hvals:获取map中所有value
    System.out.println("hvals:"+jedis.hvals("user"));

    //hmget:批量获取keys的对象, 返回列表
    System.out.println("hmget:"+jedis.hmget("user","age","name"));

    //hlen:map的大小
    System.out.println("hlen:"+jedis.hlen("user"));

    //hdel:删除map中对应key,正确删除返回1
    System.out.println("hdel:"+jedis.hdel("user","age0"));

```

```

        System.out.println("-----redis-HashMap-----\n");
    }

    public static void listCmdTest(Jedis jedis){
        System.out.println("-----redis-List-----");
        //
        jedis.del("contacts");
        jedis.del("contacts_old");

        //push:批量头部插入，返回List的size
        System.out.println("lpush:"+jedis.lpush("contacts","xx","yy","zz"));

        //lpushx:单个头部插入，返回List的size
        System.out.println("lpushx:"+jedis.lpushx("contacts","aa"));

        //linsert:指定对象位置(前or后)插入
        System.out.println("linsert:"+jedis.linsert("contacts", BinaryClient.LIST_POSITION.BEFORE,"zz","bb"));

        //lset:将指定的位置设置值（替换旧值）
        System.out.println("lset:"+jedis.lset("contacts",2,"cc"));

        //lpop:链表头的对象
        System.out.println("lpop:"+jedis.lpop("contacts"));

        //lrange:获取list指定start、end位置value
        System.out.println("lrange:"+jedis.lrange("contacts",1,3));

        //ltrim:只剩start\end中list值，其余删除
        System.out.println("ltrim:"+jedis.ltrim("contacts",1,3));

        //lrem:删除list指定值（次数指定），返回删除个数
        System.out.println("lrem:"+jedis.lrem("contacts",2,"yy"));

        //rpoplpush:将源list尾部对象移到目标list对象头部
        System.out.println("rpoplpush:"+jedis.rpoplpush("contacts","contacts_old"));

        //rpush:在list尾部对象添加值
        System.out.println("rpush:"+jedis.rpush("contacts","aa","bb"));

        //rpop:移除在list尾部值，返回移除的对象
        System.out.println("rpop:"+jedis.rpop("contacts"));

        //brpop:阻塞尾部对象抛出，指定超时时间，返回抛出值
        System.out.println("brpop:"+jedis.bpop(1,"contacts"));

        System.out.println("blpop:"+jedis.blpop(1, "contacts"));

        System.out.println("blpop（阻塞1秒返回）:"+jedis.blpop(1, "contacts"));

        System.out.println("-----redis-List-----\n");
    }

    public static void setCmdTest(Jedis jedis){

```

```

System.out.println("-----redis-Set-----");
jedis.del("phones");
jedis.del("phones_old");
jedis.del("phones_old_1");
jedis.del("phones_new");

//sadd:集合添加元素,返回添加成功后数据
System.out.println("sadd:"+jedis.sadd("phones","13600000001","13300000001"));
System.out.println("sadd:"+jedis.sadd("phones","13600000002","13300000002"));

//scard:返回集合中元素数
System.out.println("scard:"+jedis.scard("phones"));

jedis.sadd("phones_old","13600000002");
jedis.sadd("phones_old_1","13300000001");

//sdiff:首set与其他set之间的差集, 返回差集值
System.out.println("sdiff:"+jedis.sdiff("phones","phones_old","phones_old_1"));

//sdiffstore:首set与其他set之间的差集保存至新set, 返回差集数
System.out.println("sdiffstore:"+jedis.sdiffstore("phones_new","phones","phones_old"));

//sinter:返回集合的交集
System.out.println("sinter:"+jedis.sinter("phones","phones_new"));

//sismember:判断value是否为set的值
System.out.println("sismember:"+jedis.sismember("phones","13600000001"));

//smembers:返回集合中成员
System.out.println("smembers:"+jedis.smembers("phones"));

//smove:将首源set中元素移动目标set, 返回移动数
System.out.println("smove:"+jedis.smove("phones","phones_new","13600000002"));

//spop:随机移除set的一元素, 返回移除元素
System.out.println("spop:"+jedis.spop("phones"));

//srandmember:随机取出集合中一个元素
System.out.println("srandmember:"+jedis.srandmember("phones_new"));

//srem:删除集合中指定元素
System.out.println("srem:"+jedis.srem("phones_new","13600000002"));

//sunion:集合中并集
System.out.println("sunion:"+jedis.sunion("phones","phones_new","phones_old"));

System.out.println("-----redis-Set-----\n");
}

public static void sortedSetTest(Jedis jedis){

System.out.println("-----redis-SortedSet-----");
jedis.del("scores");
jedis.del("scores_1");
jedis.del("scores_total");
jedis.del("score_inter");

```

```
jedis.del("score_max");
```

//zadd:sortedSet添加元素

```
System.out.println("zadd:"+jedis.zadd("scores", 610.5, "xx"));
jedis.zadd("scores", 630, "yy");
```

//zcard:返回sortedset中元素数

```
System.out.println("zcard:"+jedis.zcard("scores"));
```

//zcount:返回指定分值（包括）的元素数

```
System.out.println("zcount:"+jedis.zcount("scores",610,620));
```

//zincrby:将指定值分数加分，返回加后的分数

```
System.out.println("zincrby:"+jedis.zincrby("scores",10,"xx"));
```

//zrange:返回指定坐标的值

```
System.out.println("zrange:"+jedis.zrange("scores",0,1));
```

//zrangeByScore:返回指定分数范围内的对象

```
System.out.println("zrangeByScore:"+jedis.zrangeByScore("scores",600,700));
```

//zrank:返回指定值的位置（分数低->高，0开始）

```
System.out.println("zrank:"+jedis.zrank("scores", "yy"));
```

//zrevrank:返回指定值的位置（分数高->低，0开始）

```
System.out.println("zrevrank:"+jedis.zrevrank("scores", "yy"));
```

//zrem:删除， 其中还有zremrangeByRank\zremrangeByScore

```
System.out.println("zrem:"+jedis.zrem("scores", "yy"));
```

```
jedis.zadd("scores", 630, "yy");
```

```
jedis.zadd("scores", 640, "zz");
```

//zrevrange: 获取指定位置数据（分数从高->低）

```
System.out.println(":"+jedis.zrevrange("scores",0,1));
```

```
System.out.println("zrangeByScoreWithScores:"+jedis.zrangeByScoreWithScores("scores",600,700));
```

//zscore:获取指定分数

```
System.out.println("zscore:"+jedis.zscore("scores", "xx"));
```

```
jedis.zadd("scores_1", 630.5, "xx");
```

```
jedis.zadd("scores_1",610.5,"bb");
```

```
jedis.zadd("scores_1",622.5,"cc");
```

//zunionstore:sortedset集合的并集并保存,如果集合中元素相同，则分数相加

```
System.out.println("zunionstore:"+jedis.zunionstore("score_total","scores","scores_1"));
```

```
ZParams zParams = new ZParams();
```

```
zParams.aggregate(ZParams.Aggregate.MAX);//指定分数操作：+，最小，最大
```

```
zParams.weightsByDouble(1,0.1);//分数中的乘法因子
```

```
System.out.println("zunionstore:"+jedis.zunionstore("score_max",zParams,"scores","scores_1"));
```

//zinterstore:集合元素取交集，相同元素值相加(默认)

```
System.out.println("zinterstore:"+jedis.zinterstore("score_inter","scores","scores_1"));
```

```

        System.out.println("-----redis-SortedSet-----\n");
    }

    public static void main(String[] args) {
        Jedis jedis = JEDIS_POOL.getResource();

        stringCmdTest(jedis);

        hashMapCmdTest(jedis);

        listCmdTest(jedis);

        setCmdTest(jedis);

        sortedSetTest(jedis);
    }
}

```

代码结果如下:

```

293 System.out.println("-----redis-SortedSet-----\n");
294
295 //zunionstore:集合元素取交集,相同元素值相加(默认)
296 System.out.println("zinterstore:"+jedis.zinterstore("score_inter","sc
297
298
299
300
301 }
302
303 public static void main(String[] args) {
304     Jedis jedis = JEDIS_POOL.getResource();
305     stringCmdTest(jedis);
306     hashMapCmdTest(jedis);
307     listCmdTest(jedis);
308     setCmdTest(jedis);
309     sortedSetTest(jedis);
310     System.out.println("命令参考地址->http://redisdoc.com/");
311 }
312 }

```

terminated: test01 [Java Application] C:\Program Files\Java\jre1.8.0\_162\bin\javaw.exe (Apr 8, 2018, 11:10:23 F  
-----redis-String-----  
name->wsy:OK  
name:wsy  
append:6  
strlen:6  
getrange:  
setrange:11  
mset:OK  
mget:[wsy, 29]  
incr:30  
incrBy:33  
decr:32  
decrBy:29  
setex:OK  
setnx:1  
del:0  
-----redis-String-----

```

92     }
93     return obj;
94 }
95
96 public static byte[] ObjectToByte(java.lang.Object obj) {
97     byte[] bytes = null;
98     try {
99         // object to bytearray
100         ByteArrayOutputStream bo = new ByteArrayOutputStream();
101         ObjectOutputStream oo = new ObjectOutputStream(bo);
102         oo.writeObject(obj);
103
104         bytes = bo.toByteArray();
105
106         bo.close();
107         oo.close();
108     } catch (Exception e) {
109         System.out.println("translation" + e.getMessage());
110         e.printStackTrace();
111     }

```

terminated> RedisTest01 [Java Application] C:\Program Files\Java\jre1.8.0\_162\bin\javaw.exe (Apr 8, 2018, 11:10:23 F  
[B@2ff4acd0  
92  
val1  
96  
val1

完工



