

# Lab2-3 Registry

实现思路

操作过程

运行RegistryNode

开启两个服务

打开Client

关闭localhost:8082, 对应webservice-0000000000

## 实现思路

这里的服务都以http服务为例

共有三个类

Client 查看服务有哪些, 每6s更新一次服务情况

Server 单个服务, 开启需要注册

RegistryNode 管理所有的服务, 当服务停止时, 及时终止

RegistryNode类监听所有的服务, 每隔一段时间判断服务是否已开启(通过http连接是否有效判断), 若连接不上该服务, 则删除服务节点

Server 注册服务, 开放http连接端口, 关闭程序时对应的服务也停止

## 操作过程

### 运行RegistryNode

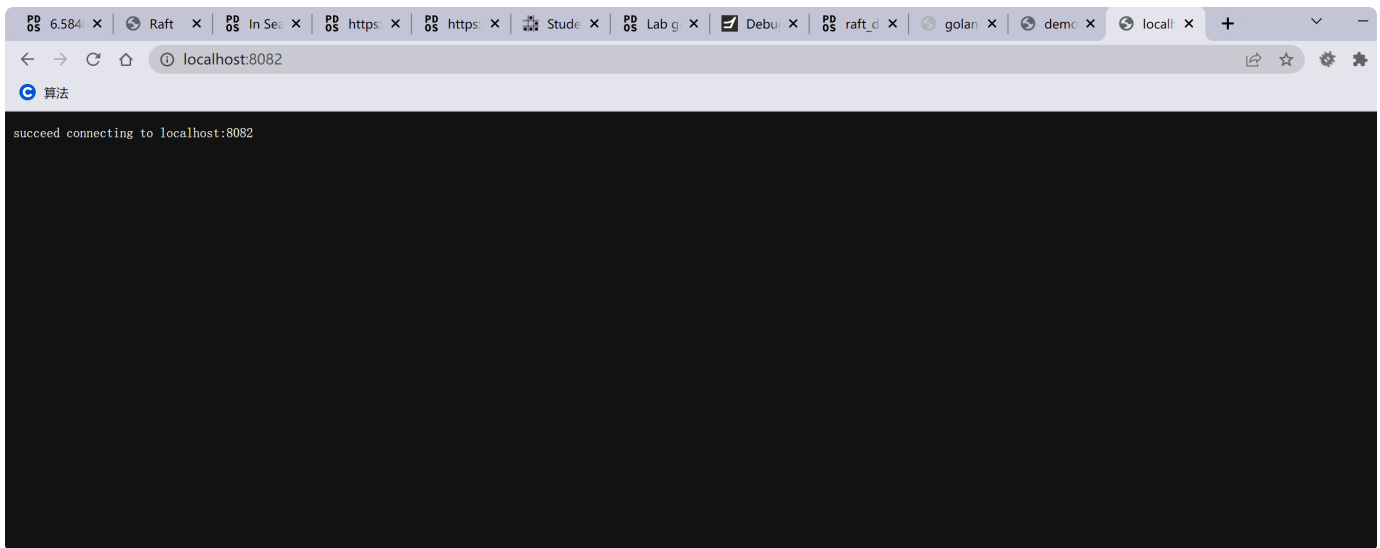
```
...
NFOWATCHER::
NFO
NFO WatchedEvent state:SyncConnected type:None path:null
NFO [zk: localhost:2181(CONNECTED) 0] ls /
NFO [election, leader, lxy, servernode, test, zk_test, zookeeper]
NFO [zk: localhost:2181(CONNECTED) 1] ls /
NFO [election, leader, lxy, registry, servernode, test, zk_test, zookeeper]
ndT [zk: localhost:2181(CONNECTED) 2]
ndThread(localhost:2181)] INFO org.apache.zookeeper.ClientCnxn - SASL config status: Will not at
ndThread(localhost:2181)] INFO org.apache.zookeeper.ClientCnxn - Socket connection established, i
ndThread(localhost:2181)] INFO org.apache.zookeeper.ClientCnxn - Session establishment complete r
```

## 开启两个服务

分别是localhost:8082    localhost:8083

```
[main-SendThread(localhost:2181)] INFO org.apache.zooke  
[main-SendThread(localhost:2181)] INFO org.apache.zooke  
[main-SendThread(localhost:2181)] INFO org.apache.zooke  
[main-SendThread(localhost:2181)] INFO org.apache.zooke  
Web Service Start!
```

从浏览器内访问服务，发现服务已开启



RegistryNode打印情况

```
[main-SendThread(localhost:2181)] INFO org.apache.zookeeper.ClientCnxn - Sock  
[main-SendThread(localhost:2181)] INFO org.apache.zookeeper.ClientCnxn - Sess  
[]  
services have changed!  
[webbservice-000000000000]  
services have changed!  
[webbservice-000000000000, webbservice-000000000001]  
|
```

## 打开Client

```
[main] INFO org.apache.zookeeper.ClientCnxnSocket - jute.maxbuffer value is 104
[main] INFO org.apache.zookeeper.ClientCnxn - zookeeper.request.timeout value i
[main-SendThread(localhost:2181)] INFO org.apache.zookeeper.ClientCnxn - Openin
[main-SendThread(localhost:2181)] INFO org.apache.zookeeper.ClientCnxn - SASL c
[main-SendThread(localhost:2181)] INFO org.apache.zookeeper.ClientCnxn - Socket
[main-SendThread(localhost:2181)] INFO org.apache.zookeeper.ClientCnxn - Sessio
ALL SERVICE:
[localhost:8082, localhost:8083]
```

发现client检测到了所有的服务

## 关闭localhost:8082，对应webservice-0000000000

RegistryNode打印情况

```
[main-SendThread(localhost:2181)] INFO org.apache.zookeeper.ClientC
[main-SendThread(localhost:2181)] INFO org.apache.zookeeper.ClientC
[]
services have changed!
[webservice-0000000000]
services have changed!
[webservice-0000000000, webservice-0000000001]
services have changed!
[webservice-0000000001]
```

Client打印情况

[localhost:8082, localhost:8083]

ALL SERVICE:

[localhost:8082, localhost:8083]

ALL SERVICE:

[localhost:8082, localhost:8083]

ALL SERVICE:

[localhost:8083]

ALL SERVICE:

[localhost:8083]

ALL SERVICE:

[localhost:8083]

ALL SERVICE:

[localhost:8083]