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dubbo-admin-book

The installation and maintenance guidance of registry center and dubbo-admin.

Install manual

You can run Demo Provider and Demo Consumer only, the default discovery strategy is Multicast by configuration center broadcast, do not run the two parts on the same machine, if you have to do so, set `unicast=false`, like `multicast://224.5.6.7:1234?unicast=false`, or the unicast send to consumer will be taken by provider, and the same for consumers. Only multicast has this issue

You can run multiple Demo Provider and Demo consumer to verify load balance. Demo Consumer can run multi instance directly. Because of port conflict, you can either run multi Demo Providers on different machines or modify the value of `dubbo.protocol.port` in `conf/dubbo.properties` under the install directory of `conf/dubbo.properties`

You can add Simple Monitor as a monitor center, the default discovery strategy is Multicast by configuration center broadcast, display the dependency relationship, call times and cost

You can use Zookeeper instead of Multicast as the configuration center, after Zookeeper Registry installation, modify `conf/dubbo.properties` under the installation directory of Demo Provider, Demo Consumer and Simple Monitor, change the value of `dubbo.registry.address` to `zookeeper://127.0.0.1:2181` (`redis://127.0.0.1:6379` for Redis Registry). the value for Simple Registry is `dubbo://127.0.0.1:9090`

Zookeeper configuration address is recommended

> [1]. NOTICE: multicast can be neither 127.0.0.1 nor the machine's IP address, it must be a type D broadcast address, from 224.0.0.0 to 239.255.255.255 ↩

install demo provider

install:

```
wget http://code.alibabatech.com/mvn/releases/com/alibaba/dubbo-demo-provider/2.4.1/du
bbo-demo-provider-2.4.1-assembly.tar.gz
tar zxvf dubbo-demo-provider-2.4.1-assembly.tar.gz
cd dubbo-demo-provider-2.4.1
```

configuration:

```
vi conf/dubbo.properties
```

start:

```
./bin/start.sh
```

stop:

```
./bin/stop.sh
```

restart:

```
./bin/restart.sh
```

Debug:

```
./bin/start.sh debug
```

System status:

```
./bin/dump.sh
```

General control entrance:

```
./bin/server.sh start
./bin/server.sh stop
./bin/server.sh restart
./bin/server.sh debug
./bin/server.sh dump
```

Stdout:

```
tail -f logs/stdout.log
```

Command line [1]:

```
telnet 127.0.0.1 20880
help
```

Or:

```
echo status | nc -i 1 127.0.0.1 20880
```

> [1]. Please refer to Telnet reference manual ↩

install demo consumer

install:

```
wget http://code.alibabatech.com/mvn/releases/com/alibaba/dubbo-demo-consumer/2.4.1/du
bbo-demo-consumer-2.4.1-assembly.tar.gz
tar zxvf dubbo-demo-consumer-2.4.1-assembly.tar.gz
cd dubbo-demo-consumer-2.4.1
```

configuration:

```
vi conf/dubbo.properties
```

start:

```
./bin/start.sh
tail -f logs/stdout.log
```

Stop:

```
./bin/stop.sh
```

Restart:

```
./bin/restart.sh
```

Debug:

```
./bin/start.sh debug
```

System status:

```
./bin/dump.sh
```

General control entrance:

```
./bin/server.sh start
./bin/server.sh stop
./bin/server.sh restart
./bin/server.sh debug
./bin/server.sh dump
```

Stdout:

```
tail -f logs/stdout.log
```

install Zookeeper configuration center

zookeeper register center client version: `dubbo-2.3.3` and above[1]

Dubbo changes nothing of Zookeeper's server side, an original Zookeeper server is fine. All change happens while calling Zookeeper's client side

install:

```
wget http://www.apache.org/dist//zookeeper/zookeeper-3.3.3/zookeeper-3.3.3.tar.gz
tar zxvf zookeeper-3.3.3.tar.gz
cd zookeeper-3.3.3
cp conf/zoo_sample.cfg conf/zoo.cfg
```

configuration:

```
vi conf/zoo.cfg
```

If cluster is not needed, the content of `zoo.cfg` is as below [2]:

```
tickTime=2000
initLimit=10
syncLimit=5
dataDir=/home/dubbo/zookeeper-3.3.3/data
clientPort=2181
```

If cluster is needed, the content of `zoo.cfg` is as below [3]:

```
tickTime=2000
initLimit=10
syncLimit=5
dataDir=/home/dubbo/zookeeper-3.3.3/data
clientPort=2181
server.1=10.20.153.10:2555:3555
server.2=10.20.153.11:2555:3555
```

Put myid file in data directory [4]:

```
mkdir data
vi myid
```

Myid is the number after `server` in `zoo.cfg`. The first one's content is 1, the second one's content is 2:

```
1
```

Start:

```
./bin/zkServer.sh start
```

Stop:

```
./bin/zkServer.sh stop
```

Command line [5]:

```
telnet 127.0.0.1 2181
dump
```

Or:

```
echo dump | nc 127.0.0.1 2181
```

Usage:

```
dubbo.registry.address=zookeeper://10.20.153.10:2181?backup=10.20.153.11:2181
```

Or:

```
<dubbo:registry protocol="zookeeper" address="10.20.153.10:2181,10.20.153.11:2181" />
```

> [1]. Zookeeper is a sub project of Apache Hadoop.As it is robust, we recommend to use in production environment. ↩

> [2]. Data directory should be changed into your real output directory ↩

> [3]. Data directory and server address should be changed into your real machine information ↩

> [4]. `dataDir` in `zoo.cfg` ↩

> [5]. http://zookeeper.apache.org/doc/r3.3.3/zookeeperAdmin.html ↩

install Redis register center

Redis [1] introductions, please refer to: Redis application center manual 。

you need an origin Redis server only, and change the value from `dubbo.registry.addrss` to `redis://127.0.0.1:6379` in `conf/dubbo.properties` of quick start

Redis configuration center cluster [2] write multiple server in client side and read from a single server.

Install:

```
wget http://redis.googlecode.com/files/redis-2.4.8.tar.gz
tar xzf redis-2.4.8.tar.gz
cd redis-2.4.8
make
```

Configuration:

```
vi redis.conf
```

Start:

```
nohup ./src/redis-server redis.conf &
```

Stop:

```
killall redis-server
```

- Command line [3]:

```
./src/redis-cli
hgetall /dubbo/com.foo.BarService/providers
```

Or:

```
telnet 127.0.0.1 6379
hgetall /dubbo/com.foo.BarService/providers
```

> [1]. Redis is a high performance KV store server, please refer to: http://redis.io/topics/quickstart ↩
>
> [2]. Support for version `2.1.0` and higher ↩
>
> [3]. Please refer to: http://redis.io/commands ↩

install Simple configuration center

Simple Registry has not been well tested, may have bug, cluster is not supported, not recommended to use in production environment

Install:

```
wget http://code.alibabatech.com/mvn/releases/com/alibaba/dubbo-registry-simple/2.4.1/
dubbo-registry-simple-2.4.1-assembly.tar.gz
tar zxvf dubbo-registry-simple-2.4.1-assembly.tar.gz
cd dubbo-registry-simple-2.4.1
```

Configuration:

```
vi conf/dubbo.properties
```

Start:

```
./bin/start.sh
```

Stop:

```
./bin/stop.sh
```

Restart:

```
./bin/restart.sh
```

Debug:

```
./bin/start.sh debug
```

System status:

```
./bin/dump.sh
```

General control entrance:

```
./bin/server.sh start
./bin/server.sh stop
./bin/server.sh restart
./bin/server.sh debug
./bin/server.sh dump
```

Stdout:

```
tail -f logs/stdout.log
```

Command line [1]:

```
telnet 127.0.0.1 9090
help
```

Or:

```
echo status | nc -i 1 127.0.0.1 9090
```

> [1]. Please refer to Telnet command manual ↩

install Simple monitor center

Step

install:

```
wget http://code.alibabatech.com/mvn/releases/com/alibaba/dubbo-monitor-simple/2.4.1/d
ubbo-monitor-simple-2.4.1-assembly.tar.gz
tar zxvf dubbo-monitor-simple-2.4.1-assembly.tar.gz
cd dubbo-monitor-simple-2.4.1
```

configuration:

```
vi conf/dubbo.properties
```

start:

```
./bin/start.sh
```

stop:

```
./bin/stop.sh
```

restart:

```
./bin/restart.sh
```

debug:

```
./bin/start.sh debug
```

system status:

```
./bin/dump.sh
```

General control entrance:

```
./bin/server.sh start
./bin/server.sh stop
./bin/server.sh restart
./bin/server.sh debug
./bin/server.sh dump
```

Stdout:

```
tail -f logs/stdout.log
```

Command line [1]:

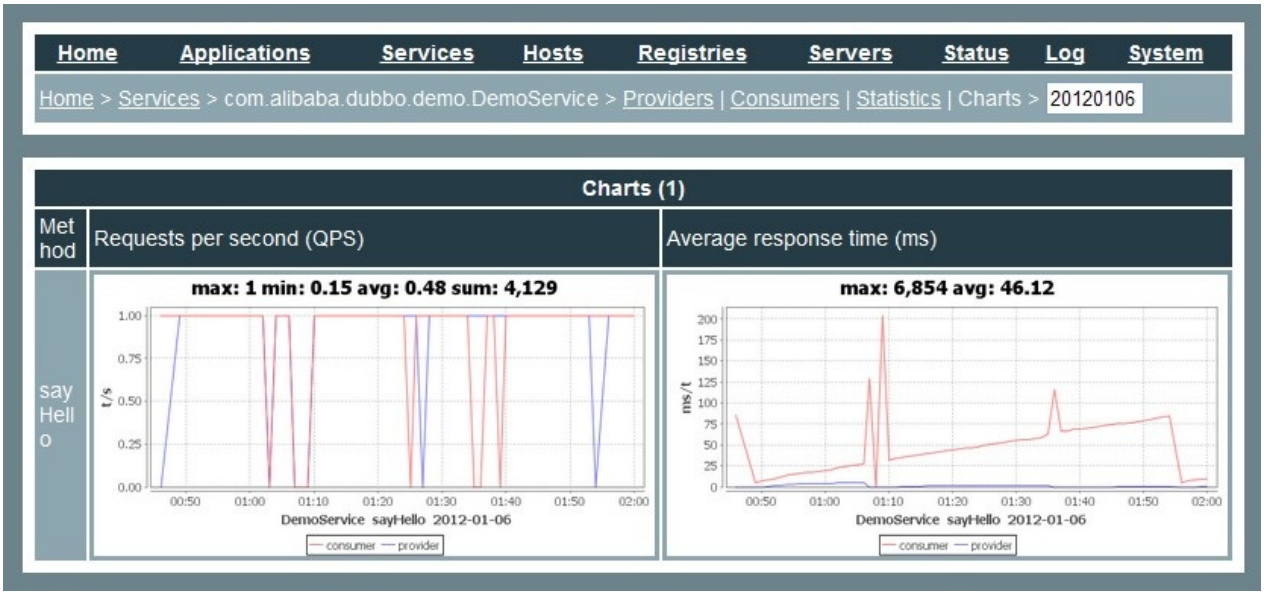
```
telnet 127.0.0.1 7070
help
```

Or:

```
echo status | nc -i 1 127.0.0.1 7070
```

Visit:

```
http://127.0.0.1:8080
```



NOTICE

The failure of Simple Monitor will not effect on consumer and provider's running, therefore there would be no risk in production environment Simple Monitor use disk to store statistics information, please focus on the limitation of your machine. Mount share disk is recommended if cluster is needed

Charts directory must be in `jetty.directory`, or it can not be accessed by web page.

> [1]. Please refer to Telnet command reference manual ↩

Install admin console

Include: route rule, dynamic configuration, service downgrade, access control, weight adjustment, load balance, etc.

Install:

```
wget http://apache.etoak.com/tomcat/tomcat-6/v6.0.35/bin/apache-tomcat-6.0.35.tar.gz
tar zxvf apache-tomcat-6.0.35.tar.gz
cd apache-tomcat-6.0.35
rm -rf webapps/ROOT
wget http://code.alibabatech.com/mvn/releases/com/alibaba/dubbo-admin/2.4.1/dubbo-admi
n-2.4.1.war
unzip dubbo-admin-2.4.1.war -d webapps/ROOT
```

Configuration [1]:

```
vi webapps/ROOT/WEB-INF/dubbo.properties
dubbo.properties
dubbo.registry.address=zookeeper://127.0.0.1:2181
dubbo.admin.root.password=root
dubbo.admin.guest.password=guest
```

Start:

```
./bin/startup.sh
```

Stop:

```
./bin/shutdown.sh
```

Visit [2]:

```
http://127.0.0.1:8080/
```

> [1]. Or put `dubbo.properties` in current user directory ↩

> [2]. User: root, password: root or user: guest, password: guest ↩

Ops console management

Page search

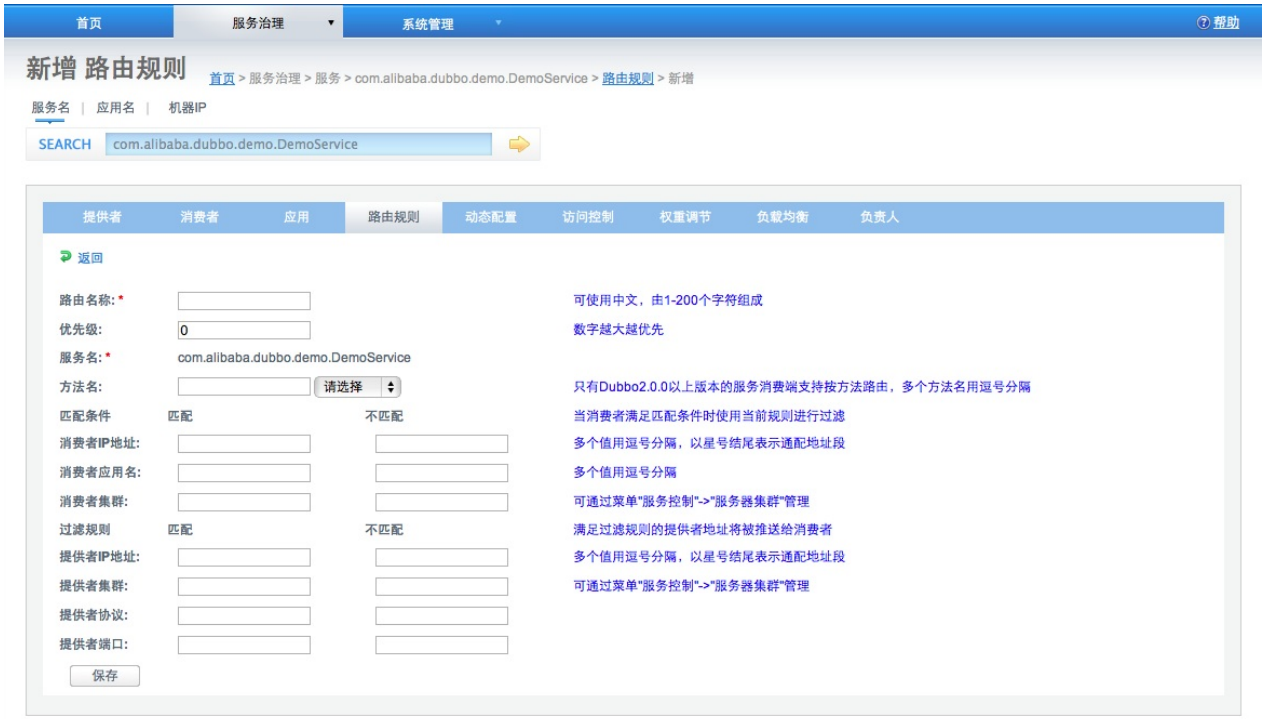
If you need to manage a Dubbo service, you need to search it first and open it's management page

Service provider page

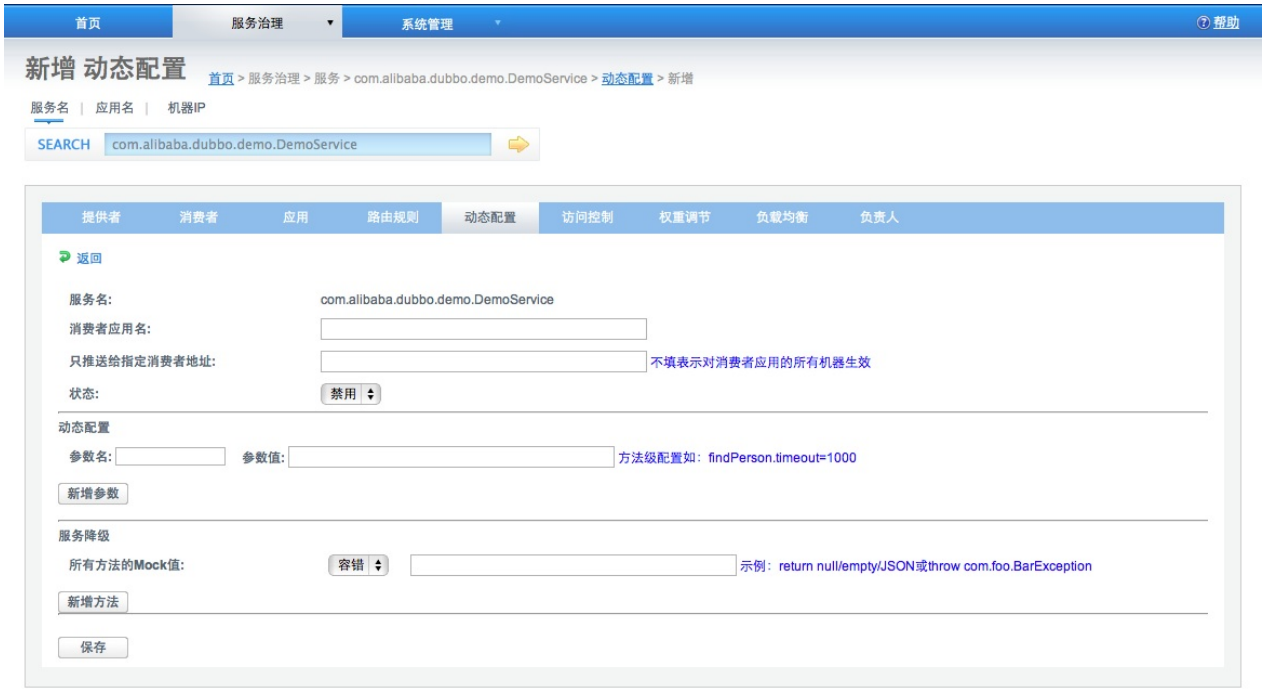
Service consumer page

Service application page

Add route rule page



Add dynamic configuration page



Service register

Service downgrade

Route rule

Access control

Dynamic configuration

Weight adjustment

Load balance

Service owner