```
1. Dubbo zookeeper
```

dubbo zk

## (2) 健状性:

- 监控中心宕掉不影响使用,只是丢失部分采样数据
- 数据库宕掉后,注册中心仍能通过缓存提供服务列表查询,但不能注册新服务
- 注册中心对等集群,任意一台宕掉后,将自动切换到另一台
- 注册中心全部宕掉后,服务提供者和服务消费者仍能通过本地缓存通讯
- 服务提供者无状态,任意一台宕掉后,不影响使用
- 服务提供者全部宕掉后,服务消费者应用将无法使用,并无限次重连等待服务提供者恢复

2. dubbo	
I Random LoadBalance	
( dubbo )	
I RoundRobin LoadBalance	
I LeastActive LoadBalance	
I ConsistentHash LoadBalance Hash	
Hash	
[AppleScript]	
<pre><dubbo:parameter key="hash.arguments" value="0,1&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;l"></dubbo:parameter></pre>	
160	
[AppleScript]	
<pre><dubbo:parameter <="" key="hash.nodes" pre="" value="320"></dubbo:parameter></pre>	>

Dubbo Token Dubbo

```
4. dubbo
```

Failover

```
1. dubbo
```

I Failfast Cluster

[AppleScript]

?

```
dubbo:service cluster="failfast" />

dubbo:reference cluster="failfast" />

cluster="failfast" cluster="failover" retries="0" ,retries="0"
```

I Failsafe Cluster

[AppleScript]

?

```
1
           <dubbo:service cluster="failsafe" />
2
3
                 <dubbo:reference cluster="failsafe" />
I Failback Cluster
[AppleScript]
?
           <dubbo:service cluster="failback" />
1
2
                 <dubbo:reference cluster="failback" />
3
I Forking Cluster
                                                 forks="2"
[AppleScript]
?
         <dubbo:service cluster="forking" forks="2"/>
1
2
3
               <dubbo:reference cluster="forking" forks="2"/>
I
[AppleScript]
?
1
              <dubbo:service interface="..." loadbalance="roundrobin" />
2
3
              <dubbo:reference interface="..." loadbalance="roundrobin" />
5
                                    <dubbo:service interface="..."> <dubbo:method name="..." loadbalance</pre>
                              <dubbo:reference interface="..."> <dubbo:method name="..." loadbalance="</pre>
6
1. dubbo
               dubbo
  dubbo
                                         (1024Mbit=128MByte)
                                7MByte(
                                                                                         20
2. dubbo
               dubbo
  dubbo
                        500KByte
                                                 (1024Mbit=128MByte)
                                                                                7MByte(
                   )
              TPS(
                               )
                                       128MByte / 500KByte = 262
                           TPS(
                                                   7MByte / 500KByte = 14
                                            )
```

3. dubbo dubbo Morgan 6 1.5 hessian Ю C10K 4. dubbo dubbo 100K dubbo dubbo TCP NIO Hessian 5. **RMI** java.rmi.\* JDK RMIJDK Java TCP Java RMI 6. Hessian Hessi an Http Hessi an Hessi an Servl et Dubbo Jetty Hessi an

HTTP

Hessi an

7. http

Spring HttpInvoker http

HTTP

**JSON** 

URL

JS

8. Webservice

CXF frontend-simple transports-http WebService

HTTP

**SOAP** 

9. Thrif

Thrift Facebook Apache RPC dubbo thrift thrift service name magic number