

# Client创建流程

## 1. 创建节点

```
1 | rospy.init_node(nodeName)
```

## 2. 调用Service

```
1 | # 等待服务器连接
2 | rospy.wait_for_service(serviceName)
3 | # 创建服务调用代理
4 | call = rospy.ServiceProxy(serviceName, TwoInts)
5 | # 调用服务
6 | result = call(4, 9)
```

## 完整代码示例

```
1 | #!/usr/bin/env python
2 | # coding:utf-8
3 |
4 | import rospy
5 | from rospy_tutorials.srv import AddTwoInts, AddTwoIntsRequest,
   | AddTwoIntsResponse
6 |
7 | if __name__ == '__main__':
8 |     # 创建节点
9 |     nodeName = "my_client_node"
10 |    rospy.init_node(nodeName)
11 |
12 |    # 创建Service Client
13 |    serviceName = "my_service"
14 |    client = rospy.ServiceProxy(serviceName, AddTwoInts)
15 |
16 |    # 等待服务开启
17 |    rospy.wait_for_service(serviceName)
18 |
19 |    # 创建请求数据
20 |    request = AddTwoIntsRequest()
21 |    request.a = 4
22 |    request.b = 5
23 |    # 调用服务并且获得响应结果
24 |    response = client.call(request)
25 |
26 |    if isinstance(response, AddTwoIntsResponse):
27 |        rospy.loginfo("响应结果: %d" % response.sum)
28 |
29 |    # 阻塞线程
30 |    rospy.spin()
```

# 调试Client端

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通过已有的server来调试client

```
1 | rosrun demo_service client.py
```