暨第四届阿里中间件性能挑战赛技术行

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快速构建微服务Dubbo+SpringBoot

Dubbo/SpringBoot

阿里巴巴-中间件技术部

陈志轩/断岭

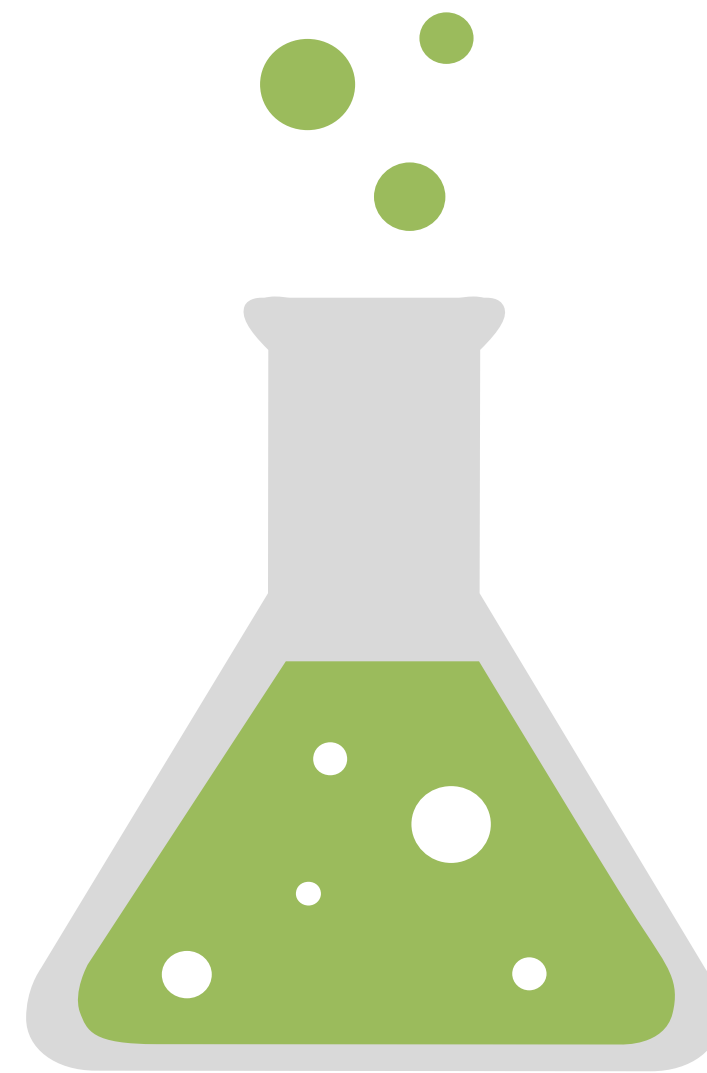# 快速构建微服务Dubbo+SpringBoot

Dubbo/SpringBoot

Dubbo initializr   配置Server/Client   Endpoint/QOS   编写DubboFilter

Dubbo Initializr

Quick Start

Quick Start

http://start.dubbo.io

Language

Java/Kotlin

Generate a [Maven Project ⇕] with [Java ⇕] and Spring Boot [1.5.12 ⇕]

Project Metadata

Artifact coordinates

Group

```
com.example
```

Artifact

```
server-demo
```

Dependencies

Add Spring Boot Starters and dependencies to your application

Search for dependencies

```
Web, Security, JPA, Actuator, Devtools...
```

Selected Dependencies

[Dubbo ×] [Web ×]

Dubbo

Dubbo Config

DubboServiceName

```
com.example.HelloService
```

DubboServiceVersion

```
1.0.0
```

Client/Server

○ server
◉ client
☑ embeddedZookeeper
☐ qos

Generate Project ⌘ + ↵

dubbo. apache. org
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快速构建微服务Dubbo+SpringBoot

Dubbo/SpringBoot

Dubbo initializr
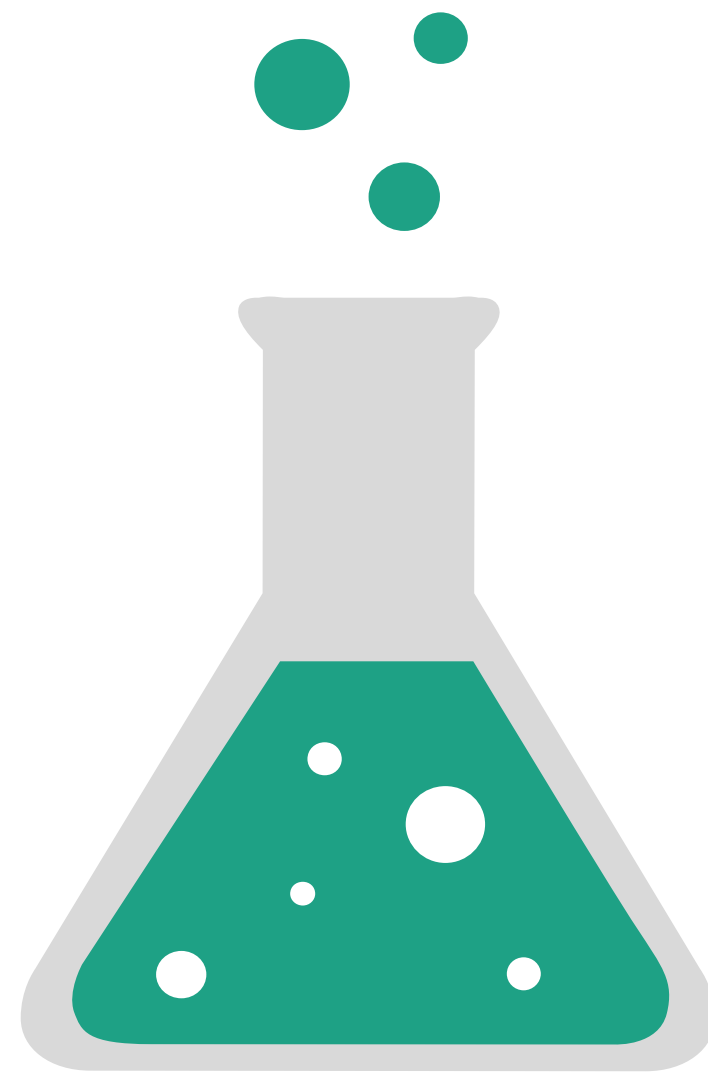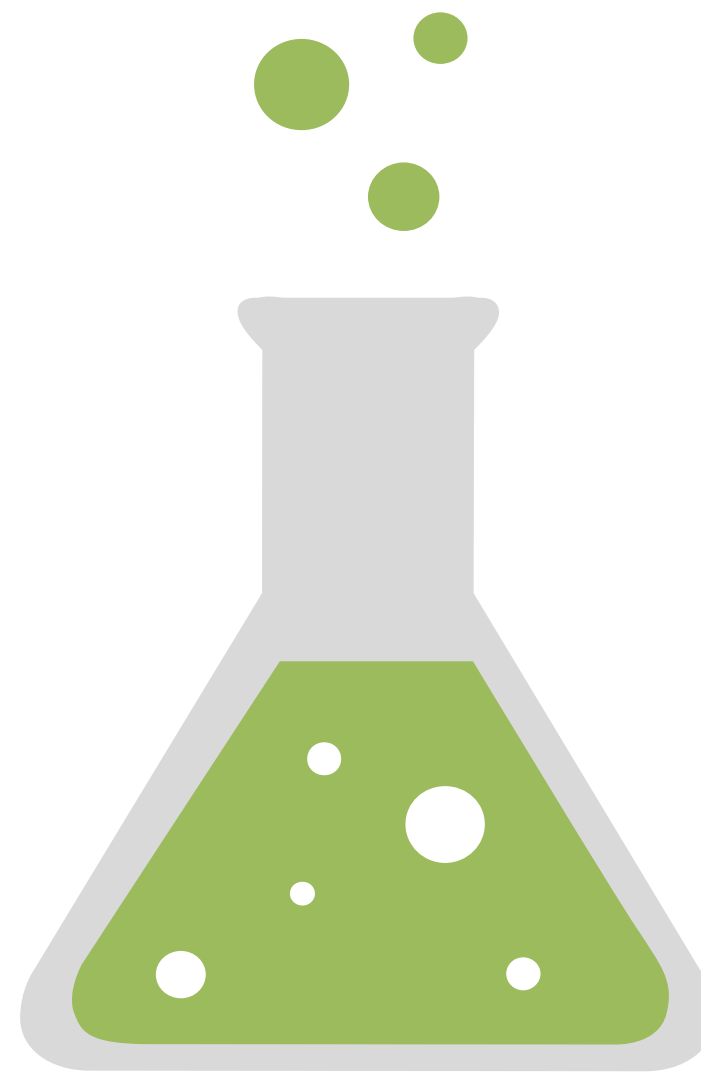
配置Server/Client

Endpoint/QOS

编写DubboFilter

Dubbo Server Config

Quick Start

```java
public interface HelloService {
    String sayHello(String name);
}
```

```java
@Service(version = "1.0.0")
public class HelloServiceImpl implements HelloService
{
    public String sayHello(String name) {
    return "Hello, " + name + ", " + new Date();
    }

}
```

```properties
dubbo.application.name = dubbo-demo-server

# Base packages to scan Dubbo Component:
dubbo.scan.basePackages  = com.example

## RegistryConfig Bean
dubbo.registry.id = my-registry
dubbo.registry.address =
zookeeper://localhost:2181?client=curator
```

Dubbo Client Config

Quick Start

```
@SpringBootApplication
public class ClientDemoApplication {
        @Reference(version = "1.0.0")
        private HelloService demoService;

        public static void main(String[] args) {
                SpringApplication.run(ClientDemoApplication.class, args);
        }

        @PostConstruct
        public void init() {
                String sayHello = demoService.sayHello("world");
                System.err.println(sayHello);

        }
}

# Dubbo Config properties
## ApplicationConfig Bean
dubbo.application.name= test

## RegistryConfig Bean
dubbo.registry.id = my-registry
dubbo.registry.address = zookeeper://localhost:2181?client=curator
```
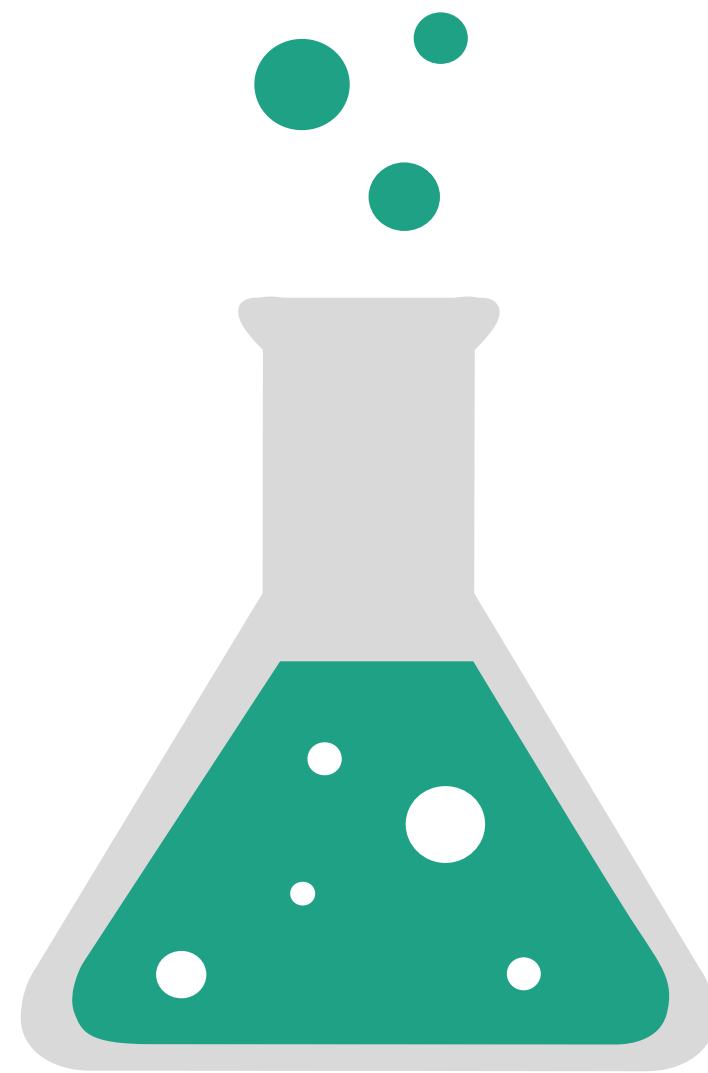
dubbo. apache. org
Copyright © 2018 The Apache Software Foundation
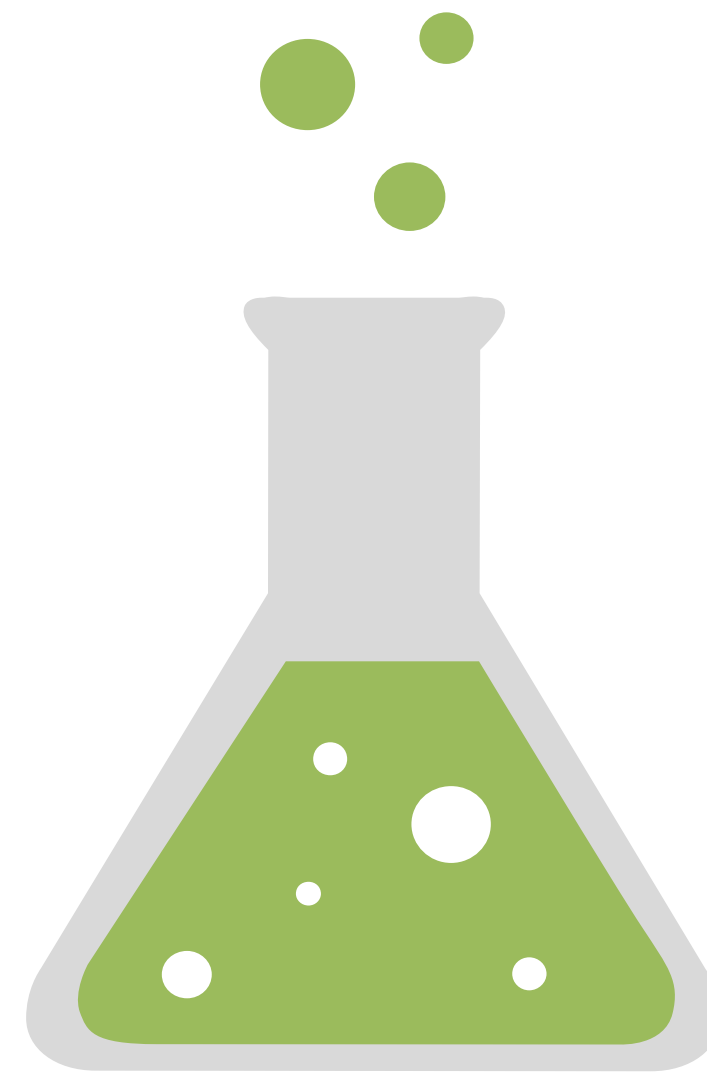
快速构建微服务Dubbo+SpringBoot

Dubbo/SpringBoot
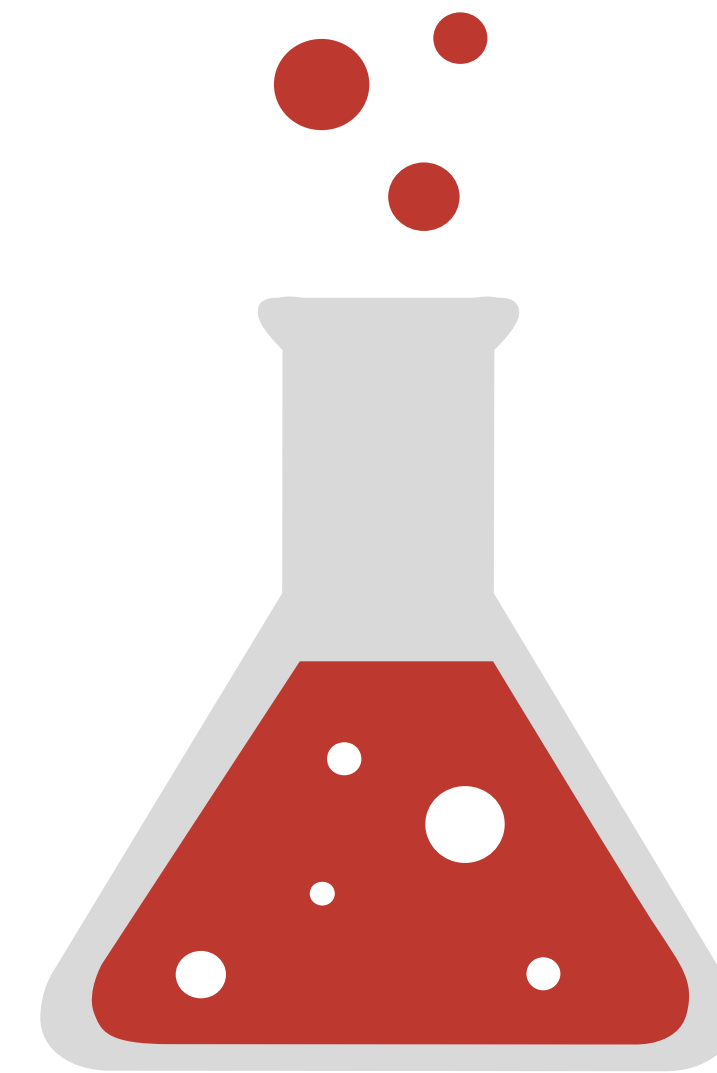
Dubbo initializr   配置Server/Client   Endpoint/QOS   编写DubboFilter

```
{
    "timestamp": 1525926755672,
    "versions": {
        "dubbo-spring-boot": "1.0.0",
        "dubbo": "2.0.1"
    },
    "urls": {
        "dubbo": "https://github.com/alib
        "google-group": "http://groups.go
        "github": "https://github.com/dub
        "issues": "https://github.com/dub
        "git": "https://github.com/dubbo/
    },
    "endpoints": {
        "shutdown": "/shutdown",
        "configs": "/configs",
        "services": "/services",
        "references": "/references",
        "properties": "/properties"
    }
```

```
{
    "ServiceBean@com.example.HelloSer
        "accesslog": null,
        "actives": null,
        "cache": null,
        "callbacks": null,
        "class": "com.alibaba.dubbo.con
        "cluster": null,
        "connections": null,
        "delay": null,
        "document": null,
        "executes": null,
        "export": null,
        "exported": true,
        "filter": "",
        "generic": "false",
        "group": null,
        "id": "com.example.HelloService
        "interface": "com.example.Hello
        "interfaceClass": "com.example.
        "layer": null,
        "listener": "",
        "loadbalance": null,
        "local": null,
        "merger": null,
        "mock": null,
        "onconnect": null,
        "ondisconnect": null,
        "owner": null,
        "path": "com.example.HelloServi
        "proxy": null,
        "retries": null,
        "scope": null,
        "sent": null,
        "stub": null,
        "timeout": null,
        "token": null,
        "unexported": false,
        "uniqueServiceName": "com.examp
        "validation": null,
```

```
{
    "ApplicationConfig": {
        "com.alibaba.dubbo.config.Appli
            "architecture": null,
            "class": "com.alibaba.dubbo.
            "compiler": null,
            "dumpDirectory": null,
            "environment": null,
            "id": "dubbo-demo-server",
            "logger": null,
            "name": "dubbo-demo-server",
            "organization": null,
            "owner": null,
            "qosAcceptForeignIp": null,
            "qosEnable": null,
            "qosPort": null,
            "version": null
```

Dubbo服务状态

Spring Boot Endpoints & Health

/dubbo

展示 dubbo 版本 包版本，endpoints url

/dubbo/configs

展示 dubbo 配置信息: ApplicationConfig,
RegistryConfig, ServiceConfig, ConsumerConfig

/dubbo/services , /dubbo/references

展示 dubbo 的服务提供者，消费者信息

```
$ nc localhost 20880
help
Please input "help [command]" show detail.
 status [-l]                         - Show status.
 pwd                                 - Print working default service.
 trace [service] [method] [times]  - Trace the service.
 exit                                - Exit the telnet.
 help [command]                      - Show help.
 invoke [service.]method(args)       - Invoke the service method.
 count [service] [method] [times]  - Count the service.
 clear [lines]                       - Clear screen.
 ls [-l] [service]                   - List services and methods.
 log level                           - Change log level or show log
 ps [-l] [port]                      - Print server ports and connections.
 cd [service]                        - Change default service.
```

```
$ telnet localhost 22222

dubbo>help
+---------+----------------------+
|   help  | help command         |
+---------+----------------------+
|     ls  | ls service           |
+---------+----------------------+
| offline | offline dubbo        |
+---------+----------------------+
|  online | online dubbo         |
+---------+----------------------+
|   quit  | quit telnet console  |
+---------+----------------------+

dubbo>
```

Dubbo服务状态

Telnet & QOS

telnet命令，要求dubbo协议

telnet localhost 20880

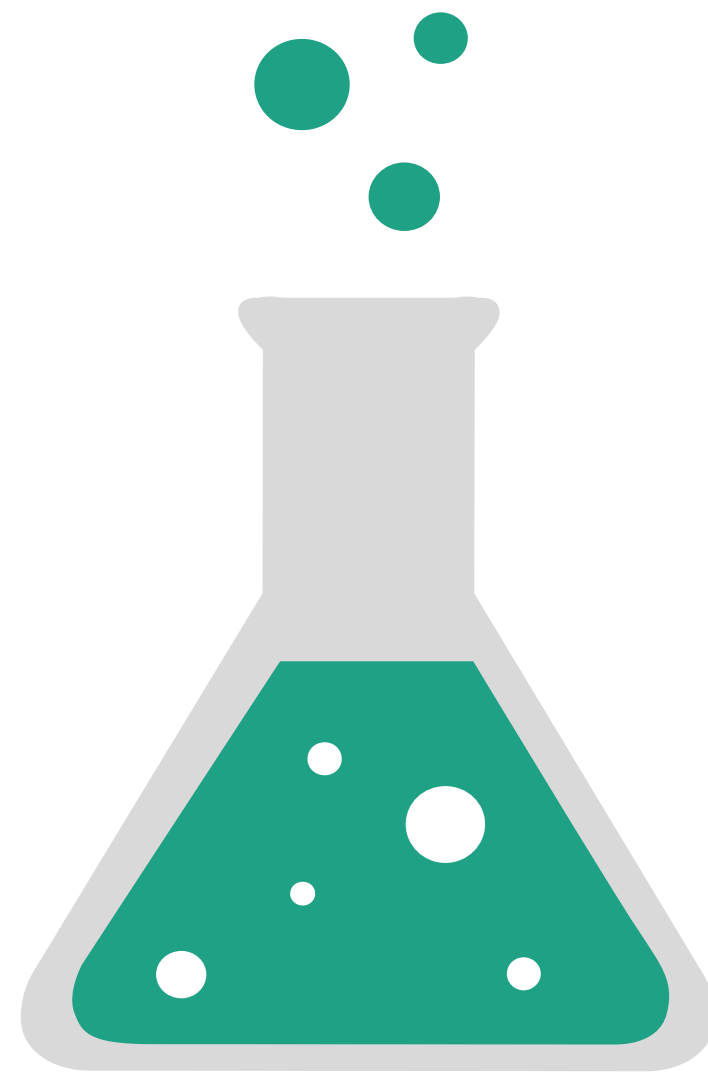ls/status/trace/invoke

QOS运维支持

telnet localhost 22222

support http

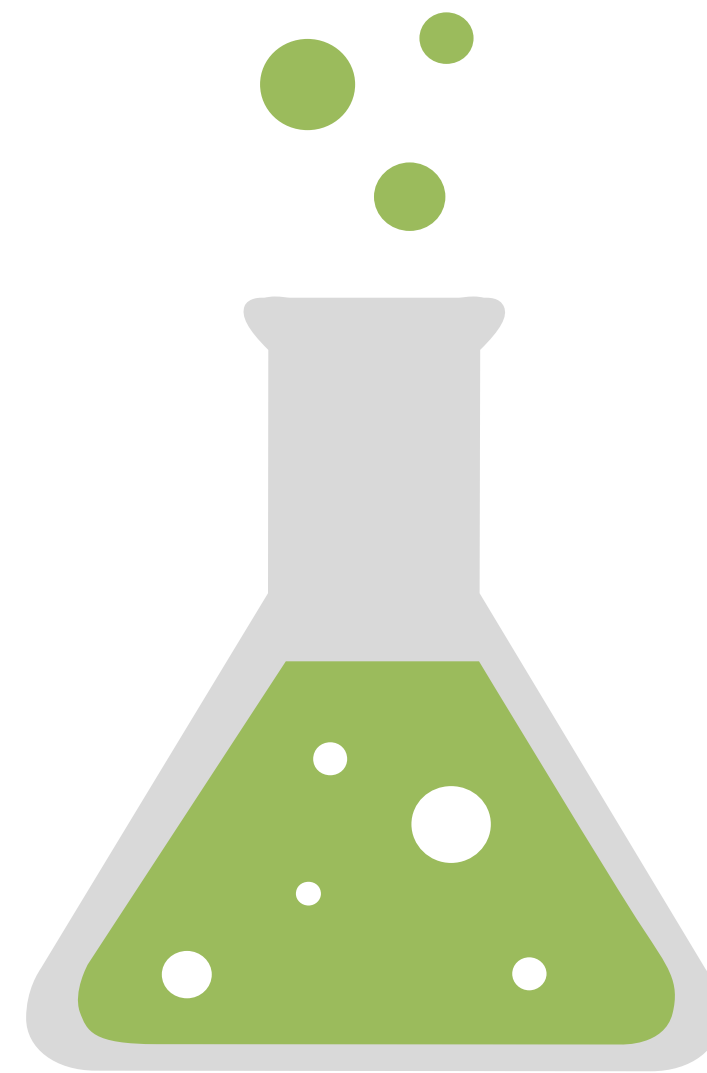ls/online/offline ，未来会支持更新功能

curl localhost:22222/online

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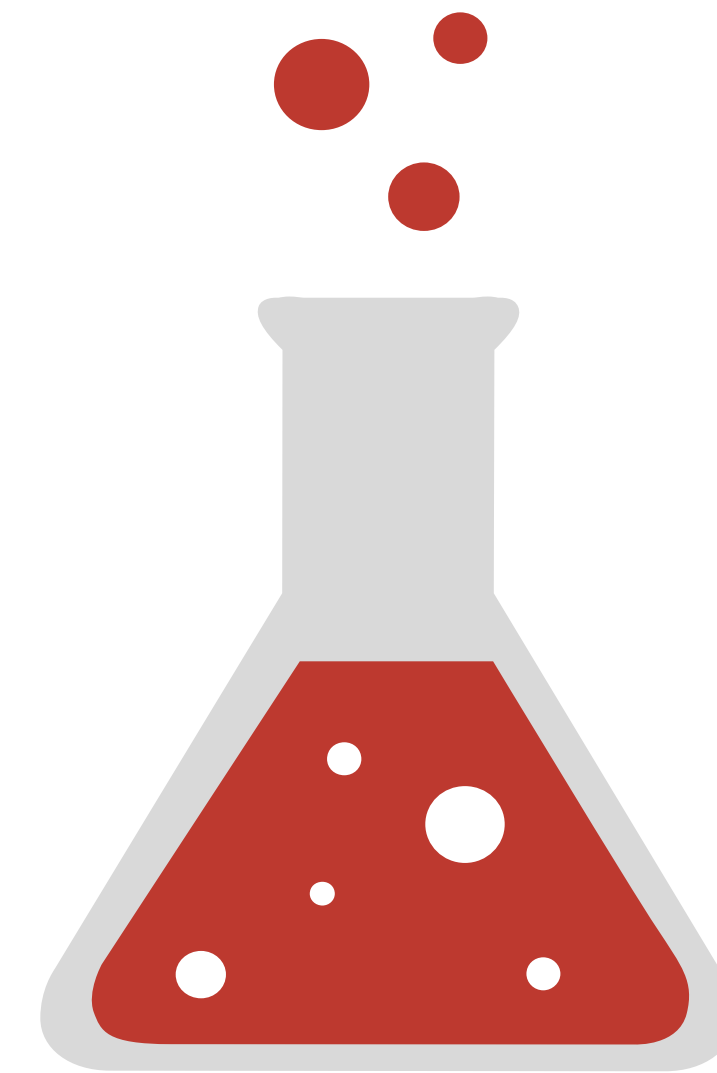
Dubbo/SpringBoot

Dubbo initializr

配置Server/Client

Endpoint/QOS

编写DubboFilter

Dubbo Filter

SPI

```
# META-INF/dubbo/com.alibaba.dubbo.rpc.Filter
traceIdfilter=com.example.filter.TraceIdFilter
```

```java
@Activate(group = { Constants.CONSUMER })
public class TraceIdFilter implements com.alibaba.dubbo.rpc.Filter {

        @Override
        public Result invoke(Invoker<?> invoker, Invocation invocation) {
                // send the traceId to provider.
                RpcContext.getContext().setAttachment("traceId", TraceId.get());
                return invoker.invoke(invocation);
        }

}
```

https://github.com/hengyunabc/dubbo-spring-boot-demo

Dubbo meetup问卷调查

Home

dubbo.apache.org

start.dubbo.io

GitHub

github.com/apache/incubator-dubbo

github.com/dubbo

Mailing List

dev@dubbo.apache.org

IM

gitter.im/alibaba/dubbo

欢迎加入中间件/Dubbo
广告时间

阿里巴巴中间件Dubbo团队招聘技术专家、架构师、运营专家（北京，杭州，深圳）

1. 参与Dubbo的核心和生态开发，并帮助推动Dubbo社区的生态建设。
2. 理解社区需求，参与Dubbo架构设计和优化，帮助Dubbo在未来服务框架领域领先。
3. 参与Dubbo的模块设计，代码开发，系统稳定性开发，性能优化等相关工作
4. 帮助Dubbo社区建设，让更多的用户使用或参与到项目当中，帮助项目在各大展会上进行宣传，帮助项目和开源基金会建立联系。

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