

node接入层应用与实践

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个人介绍





魏天亮

2016年起加入腾讯,曾参与开发QQ空间、情侣空间、空间小游戏等线上H5业务,目前主要负责QQ小程序、QQ小游戏等前端相关开发工作。

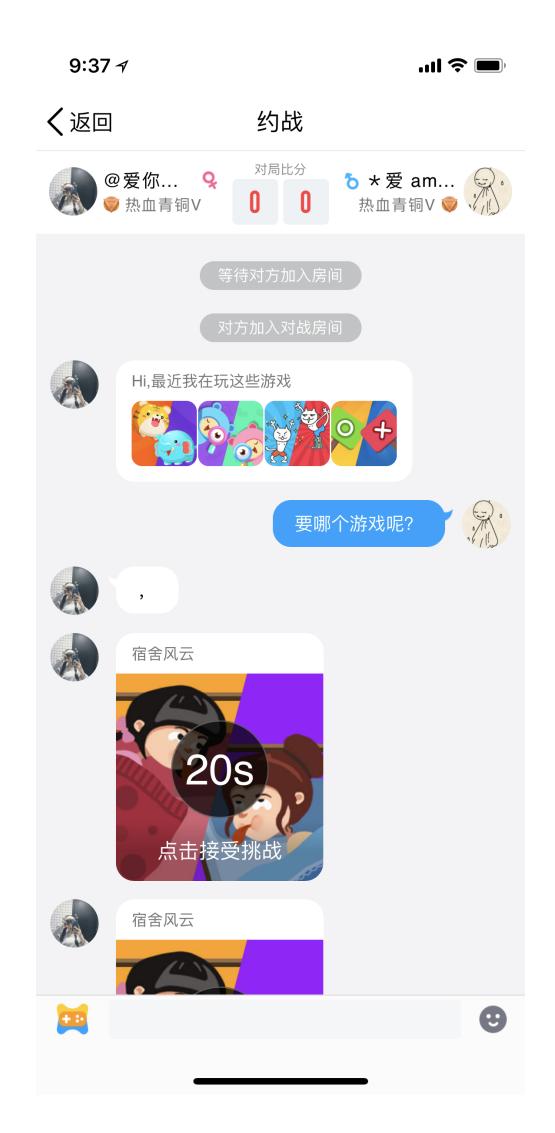
内容大纲



01 WebSocket多机多进程间通信

02 测试环境搭建

03 实时日志





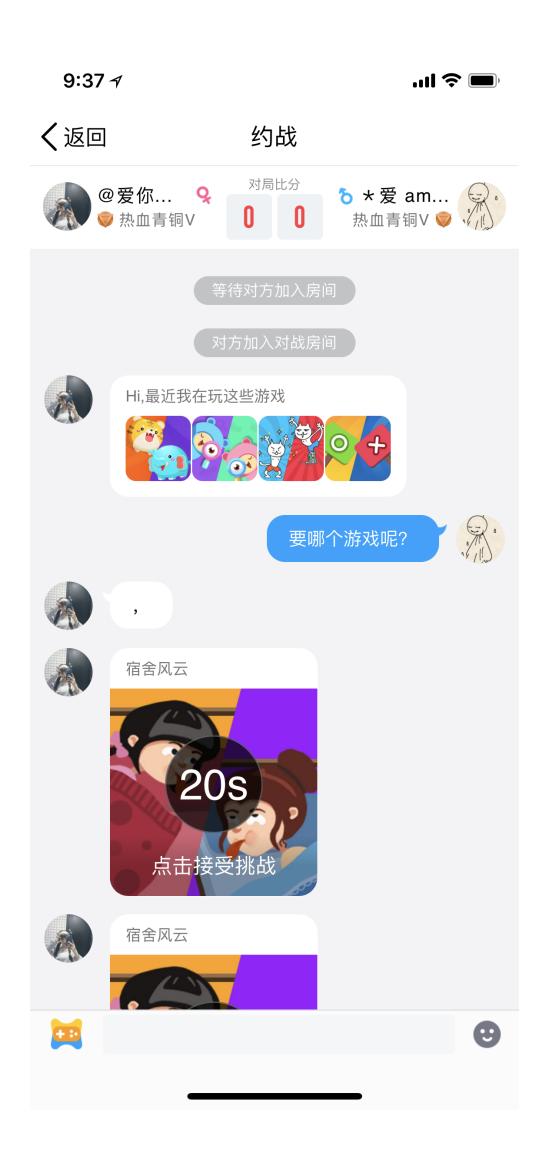




开发

多机多进程间如何通信





开发

多机多进程间如何通信

产品、测试

怎么体验、测试





开发

多机多进程间如何通信

产品、测试

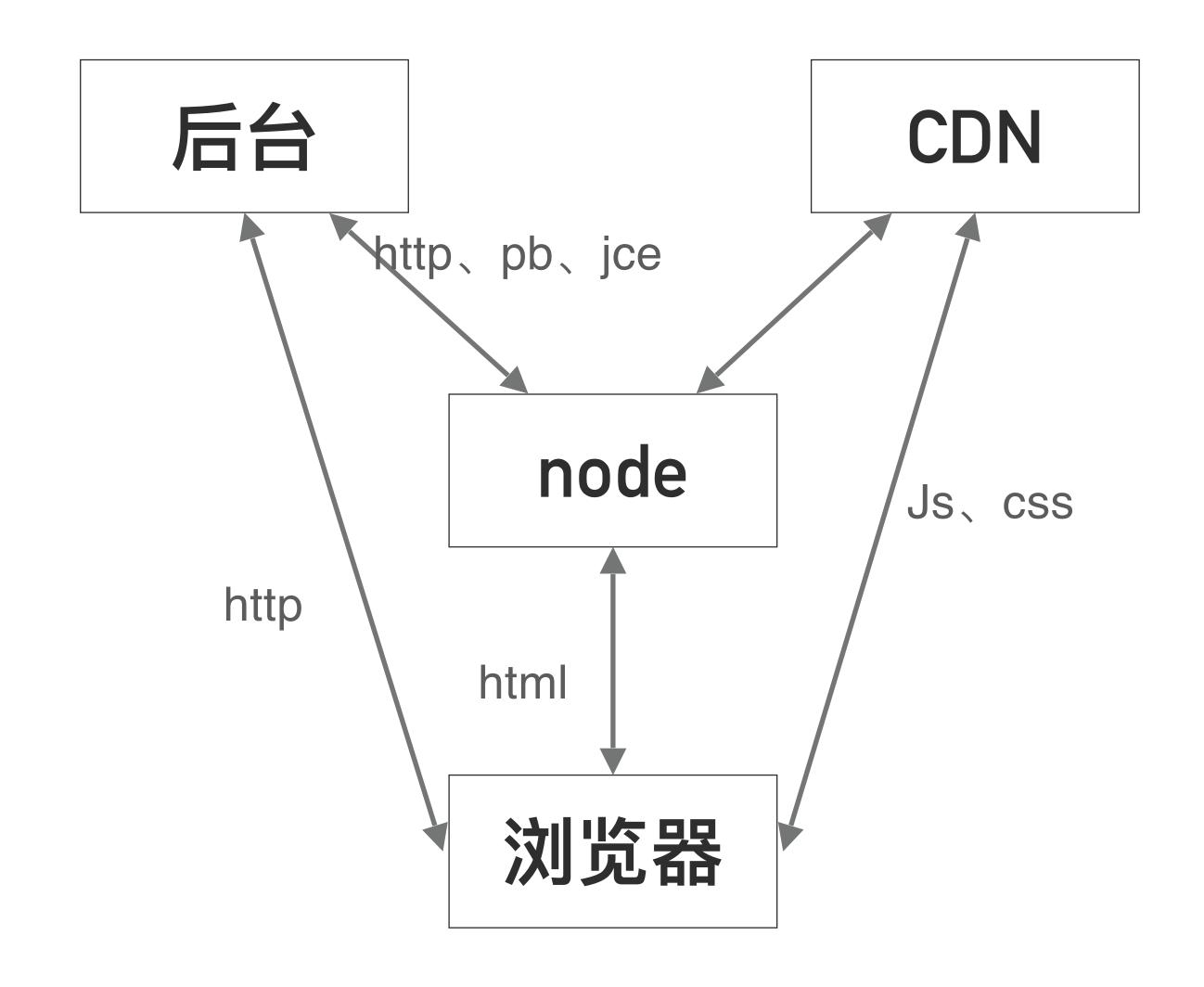
怎么体验、测试

用户

出现了问题如何定位

基础架构





多机通信

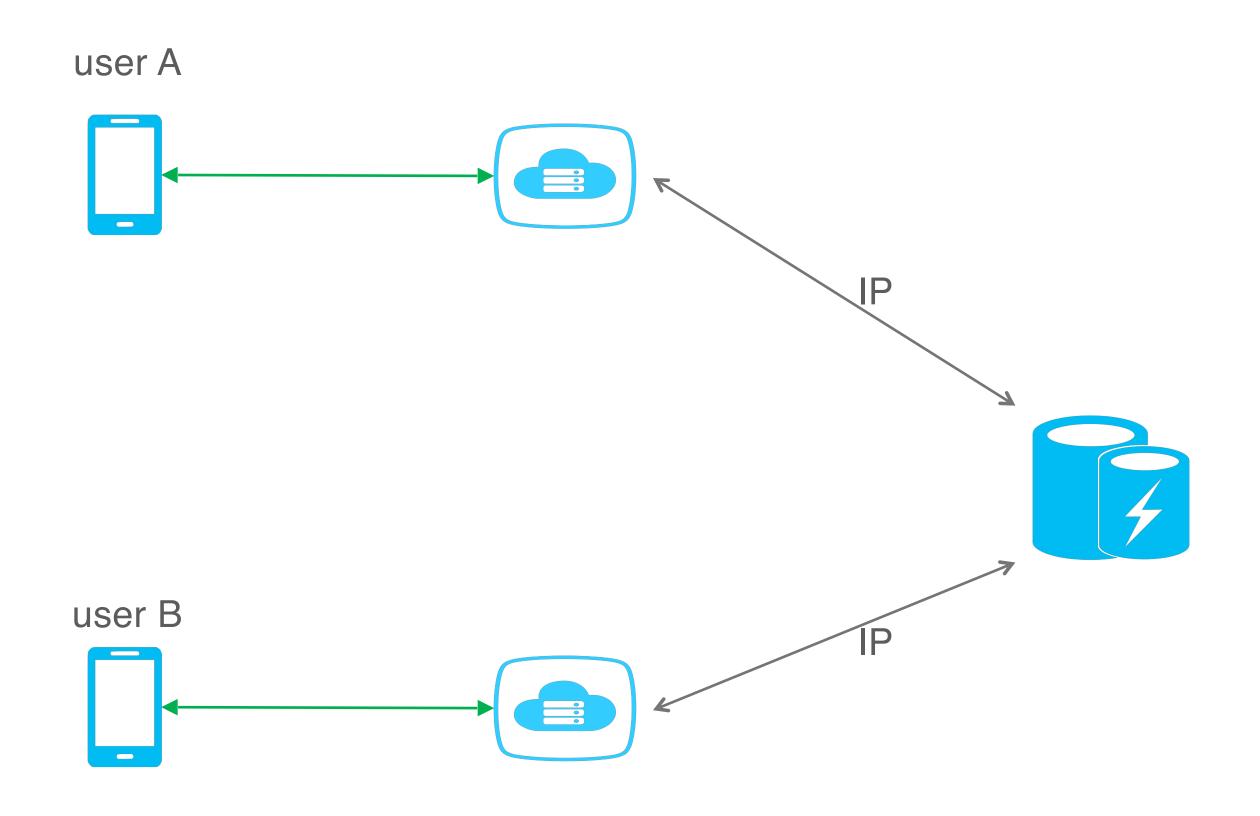






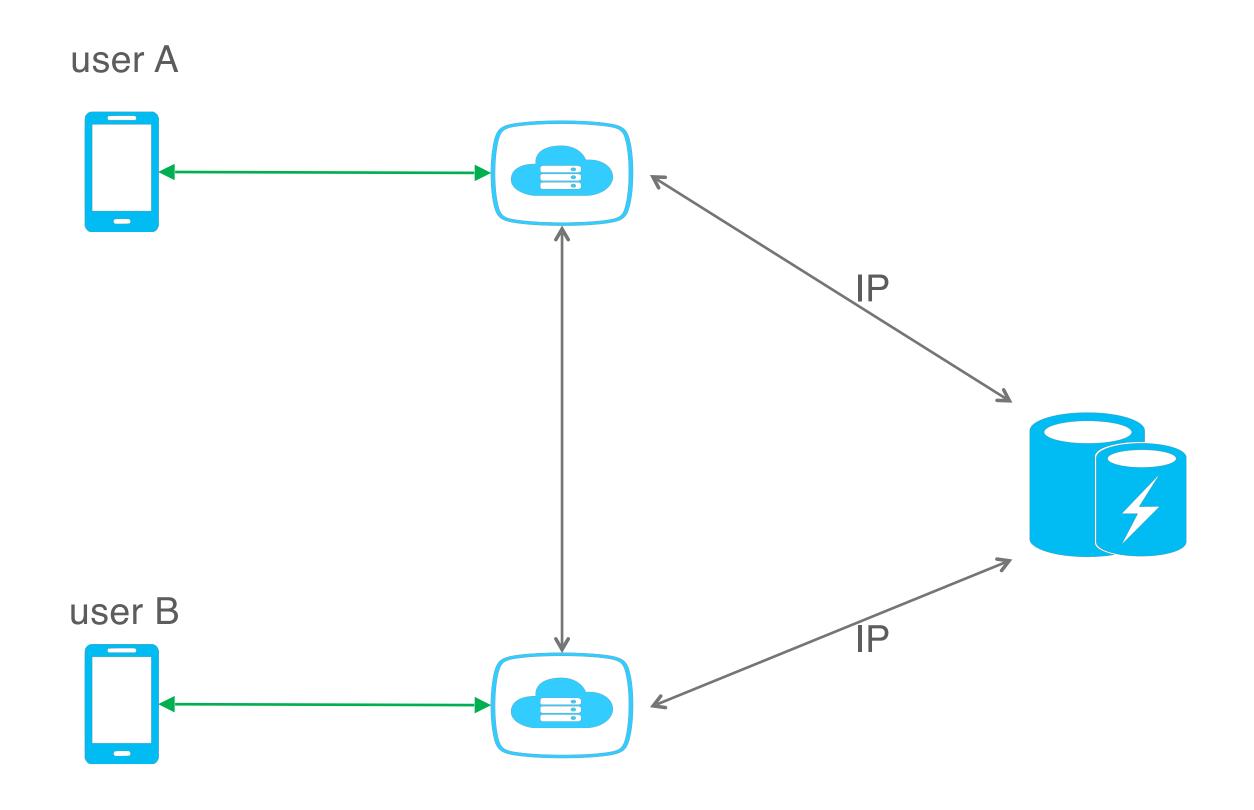
多机通信



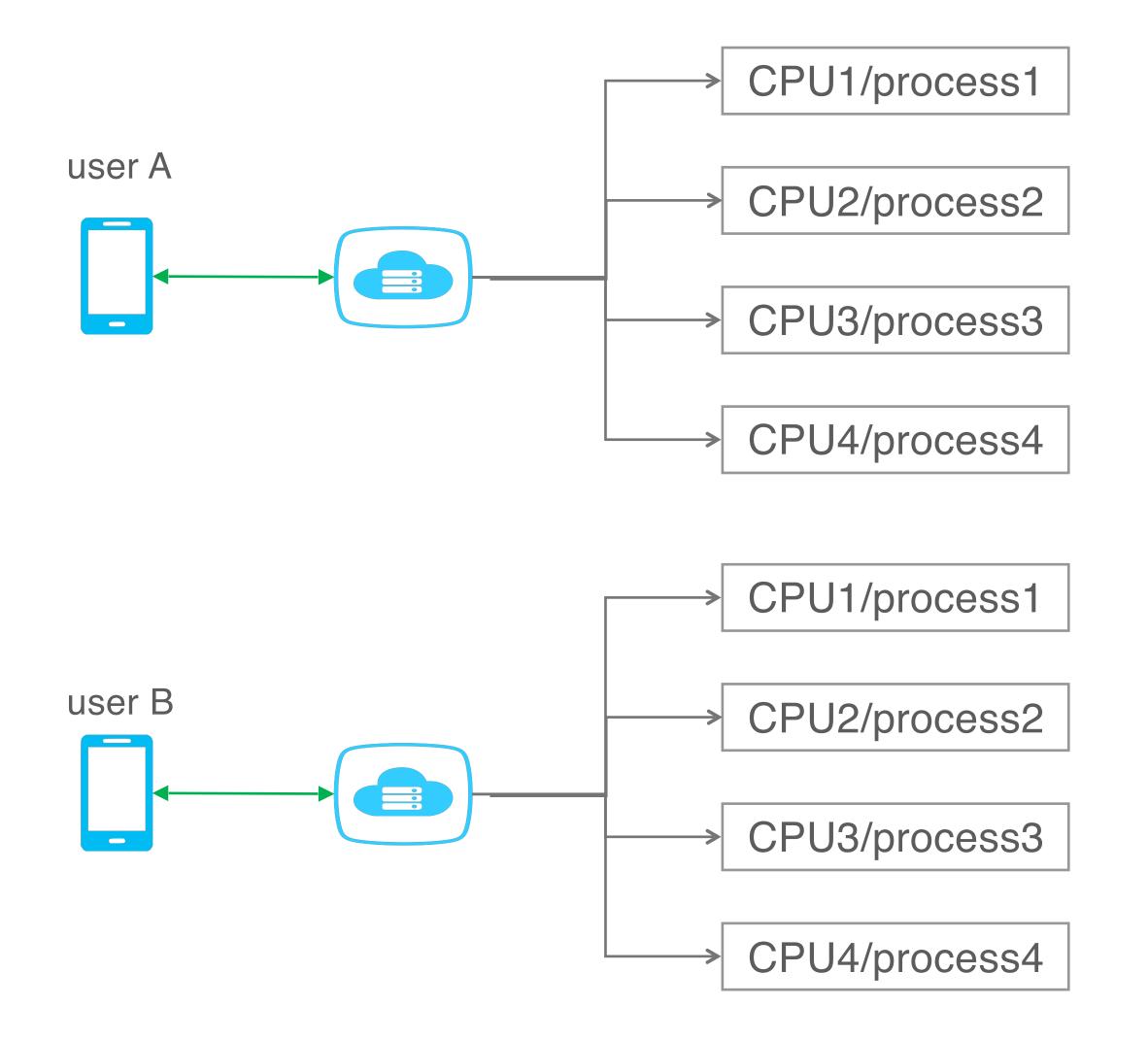


多机通信

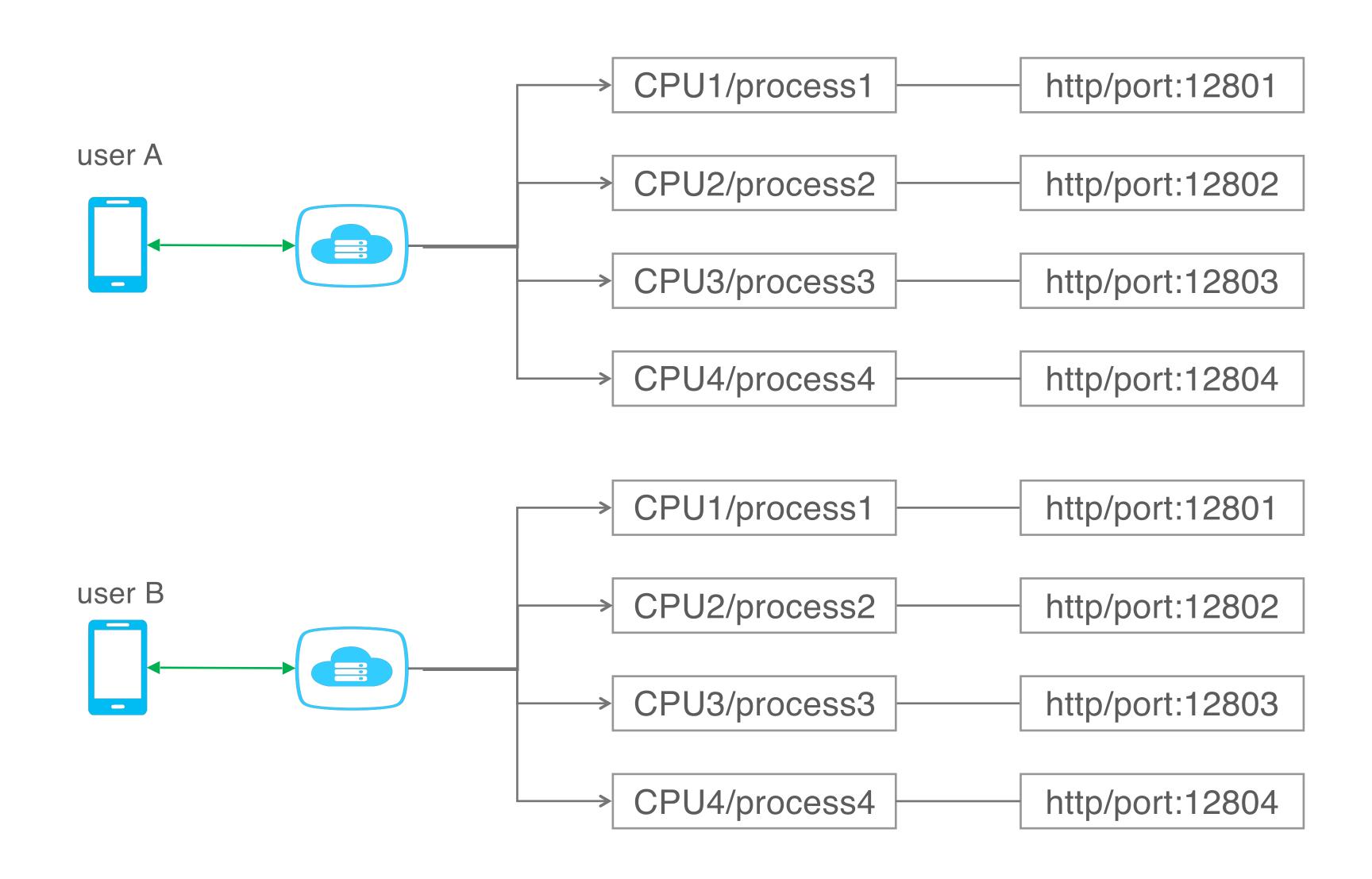




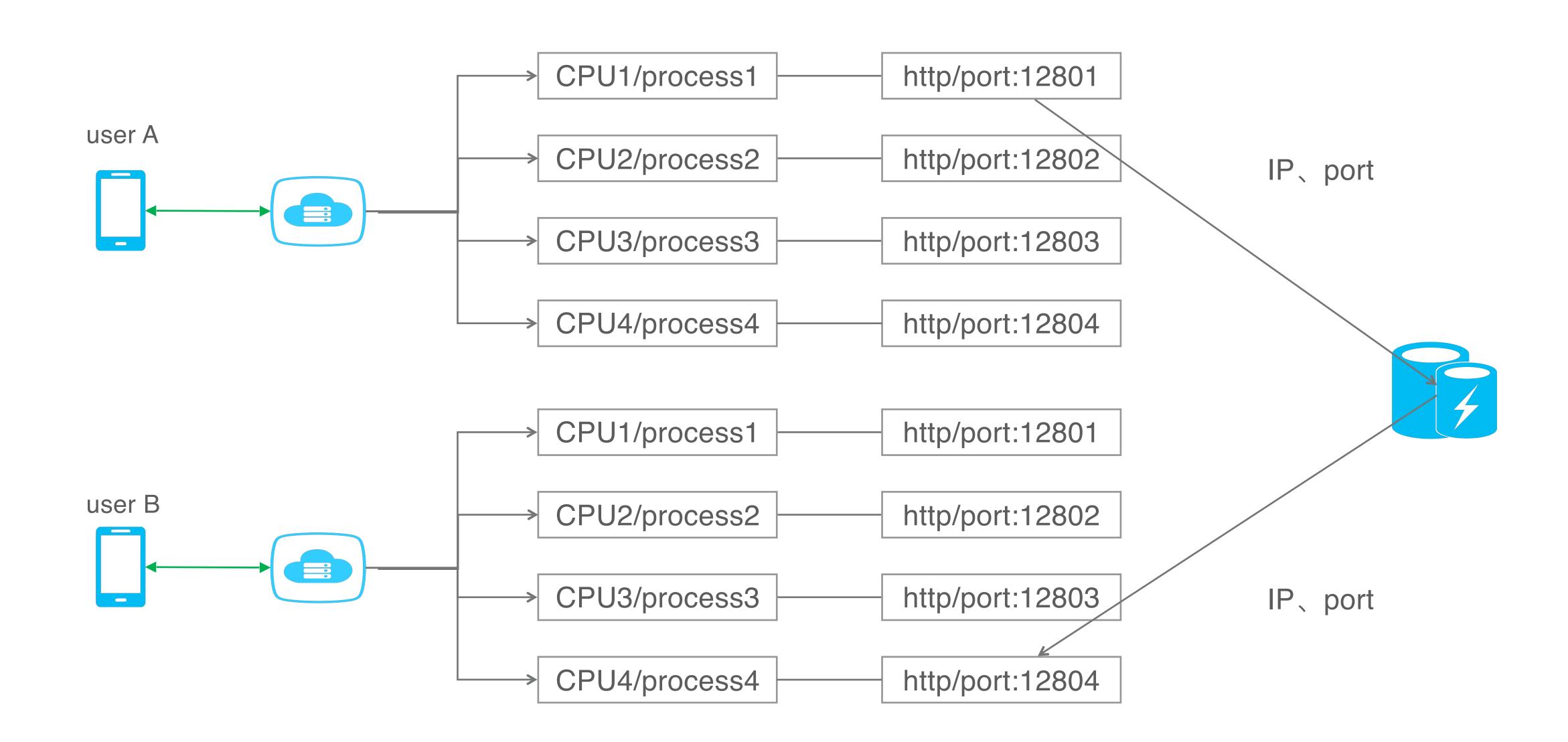




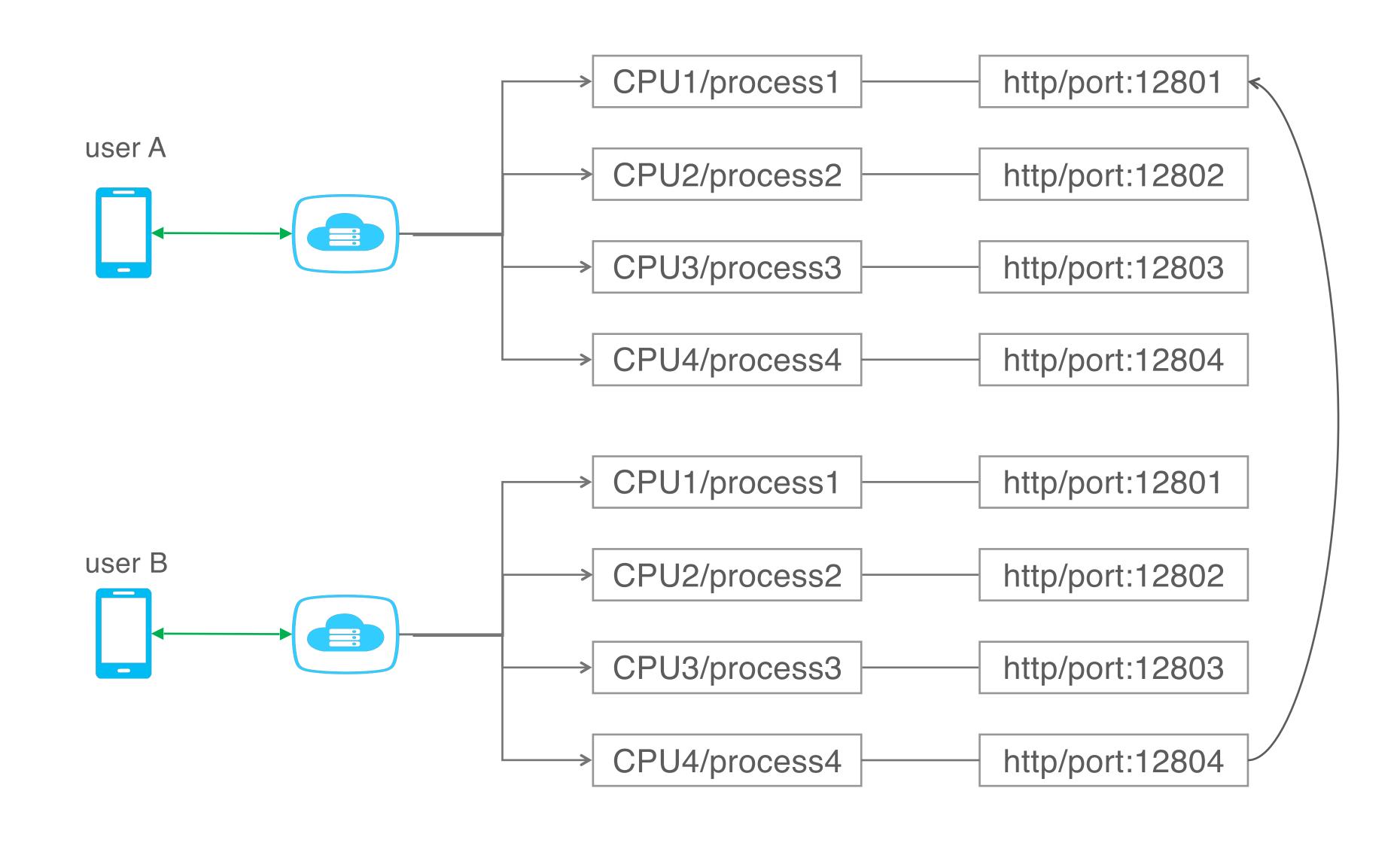


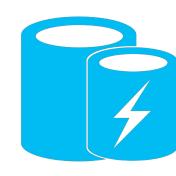


















无法带上Cookie、需随时修改IP





无法带上Cookie、需随时修改IP



发布代码需修改Host、多测试环境 机器难维护





无法带上Cookie、需随时修改IP

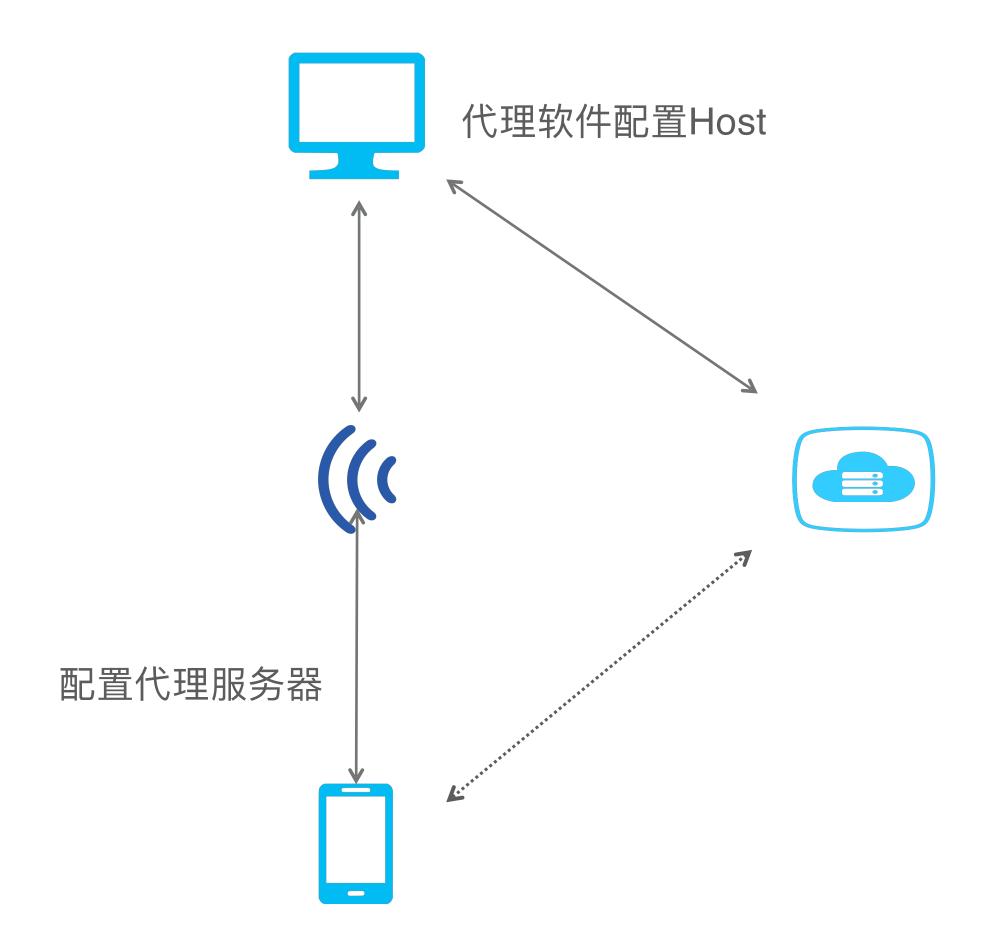


发布代码需修改Host、多测试环境 机器难维护

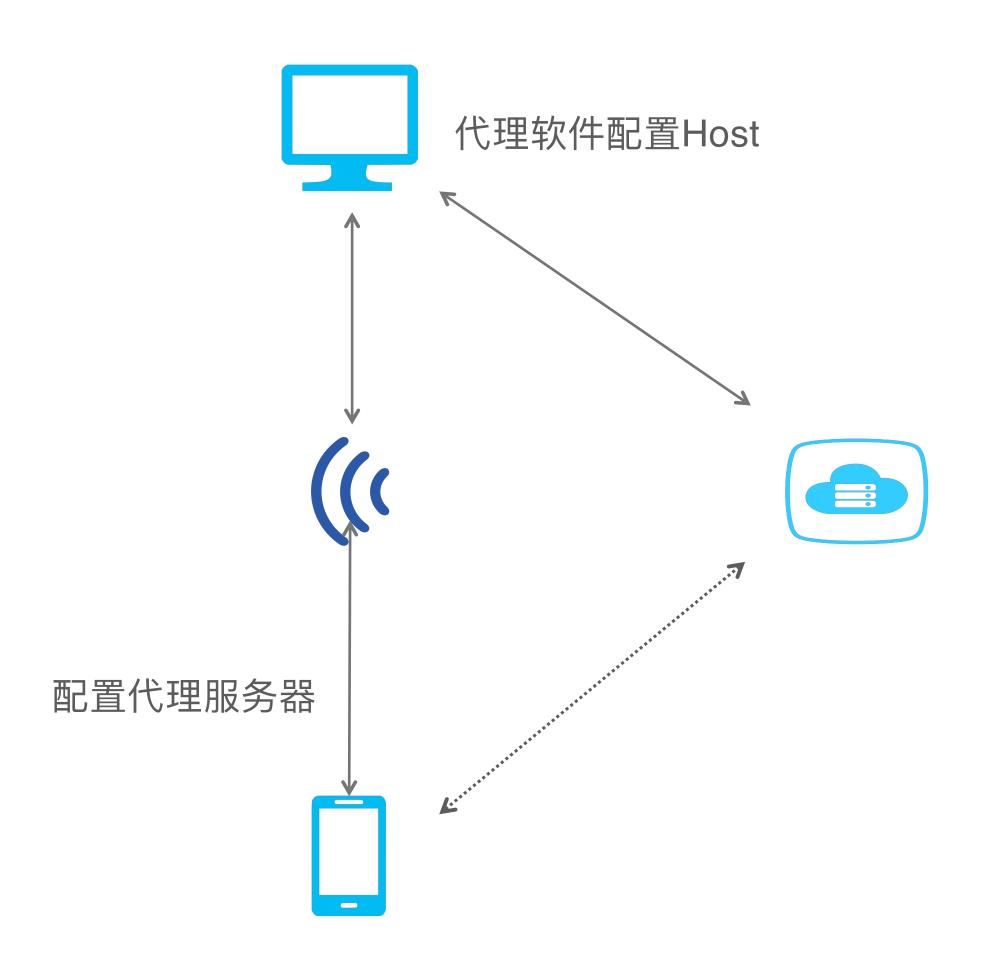


对于产品、测试等角色使用门槛高



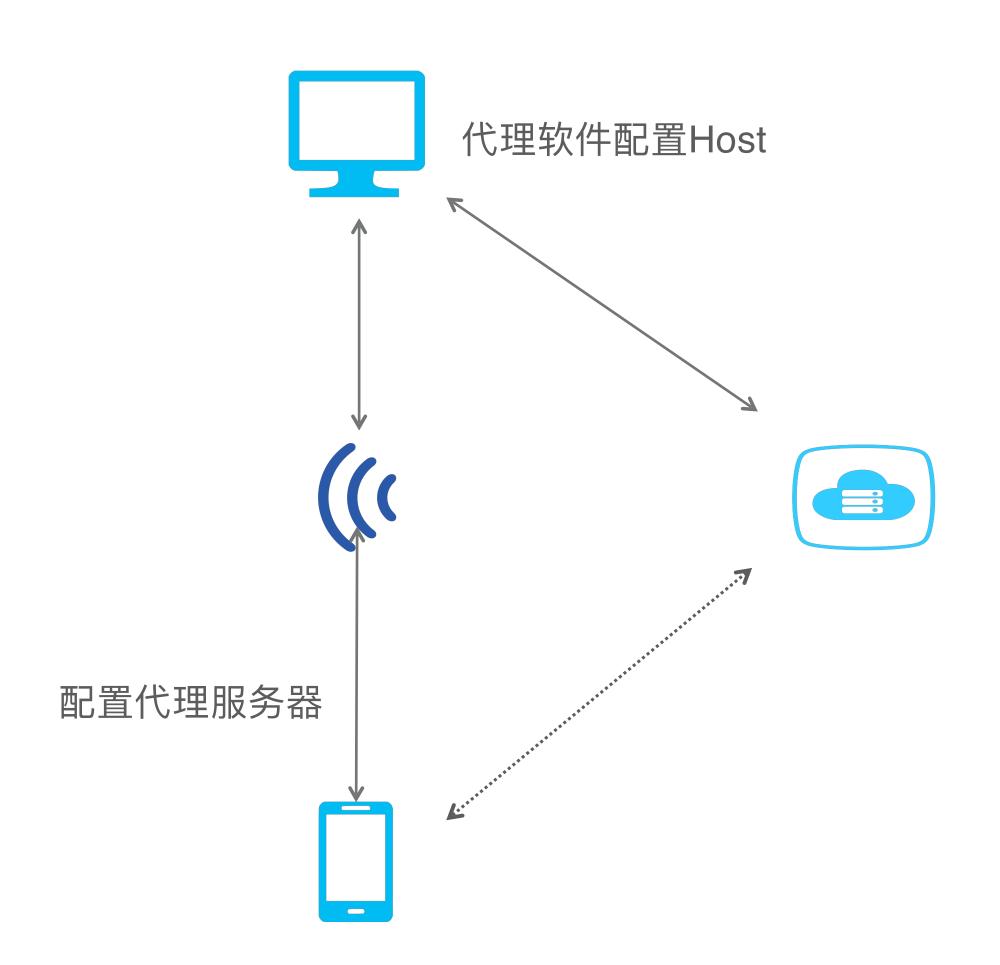






O配置难度

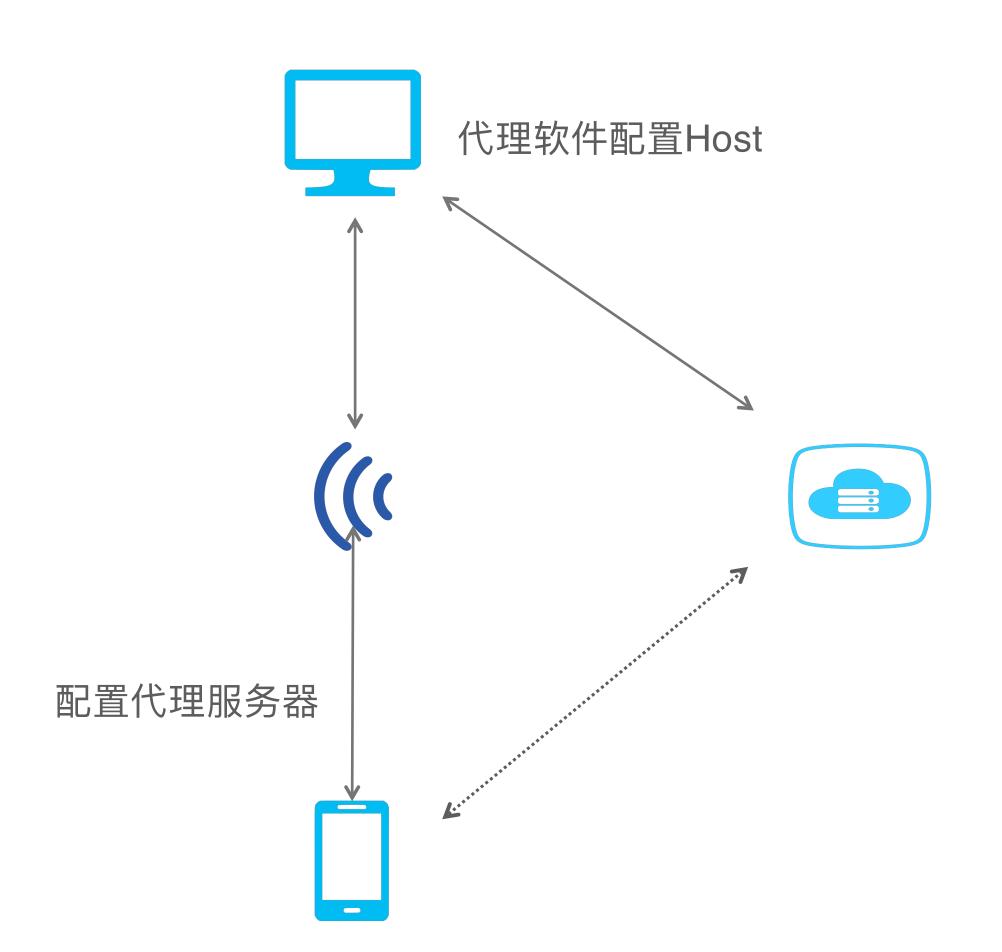




O配置难度

任意网络环境





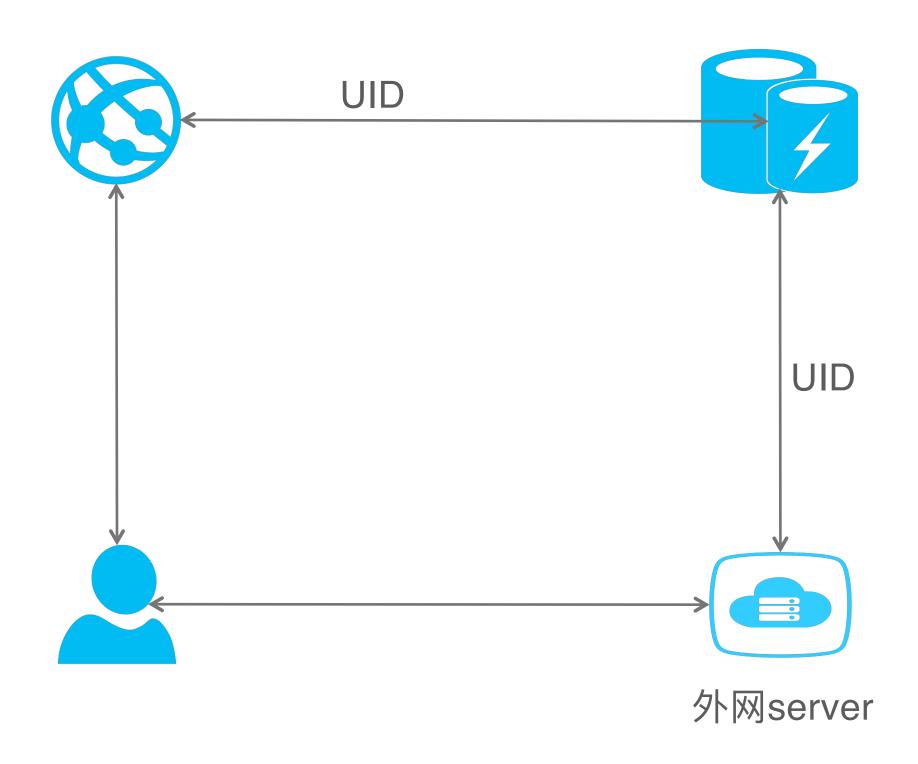
O配置难度

• 任意网络环境

• 多测试环境切换

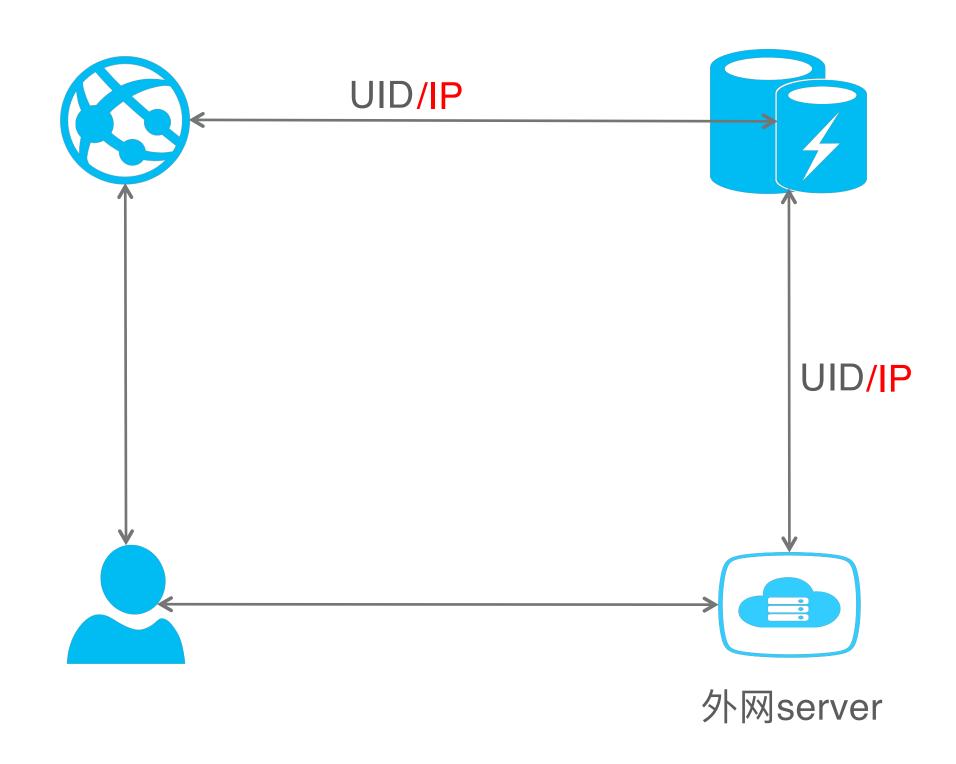
染色





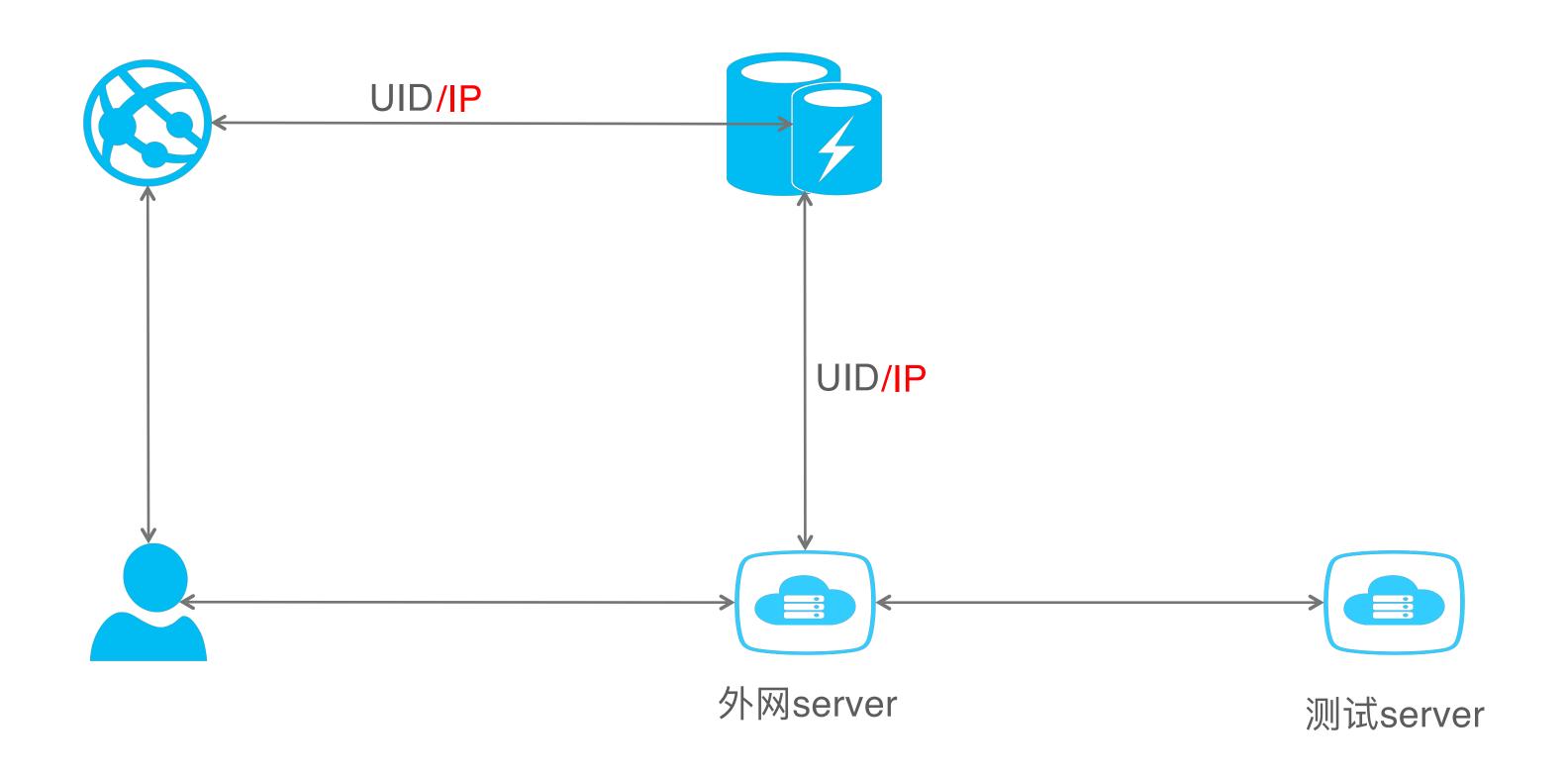
染色



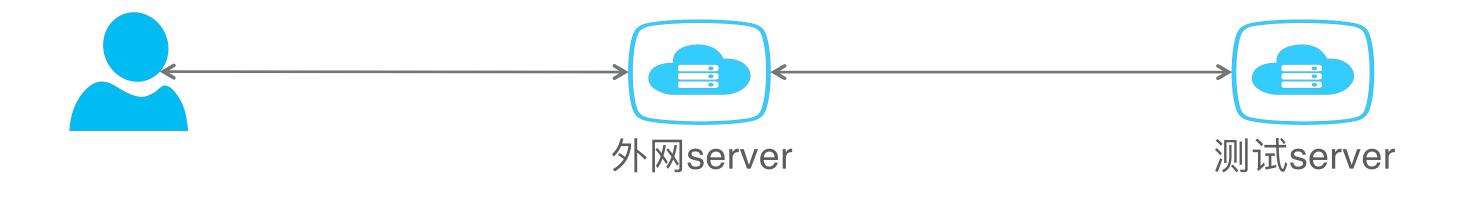


染色

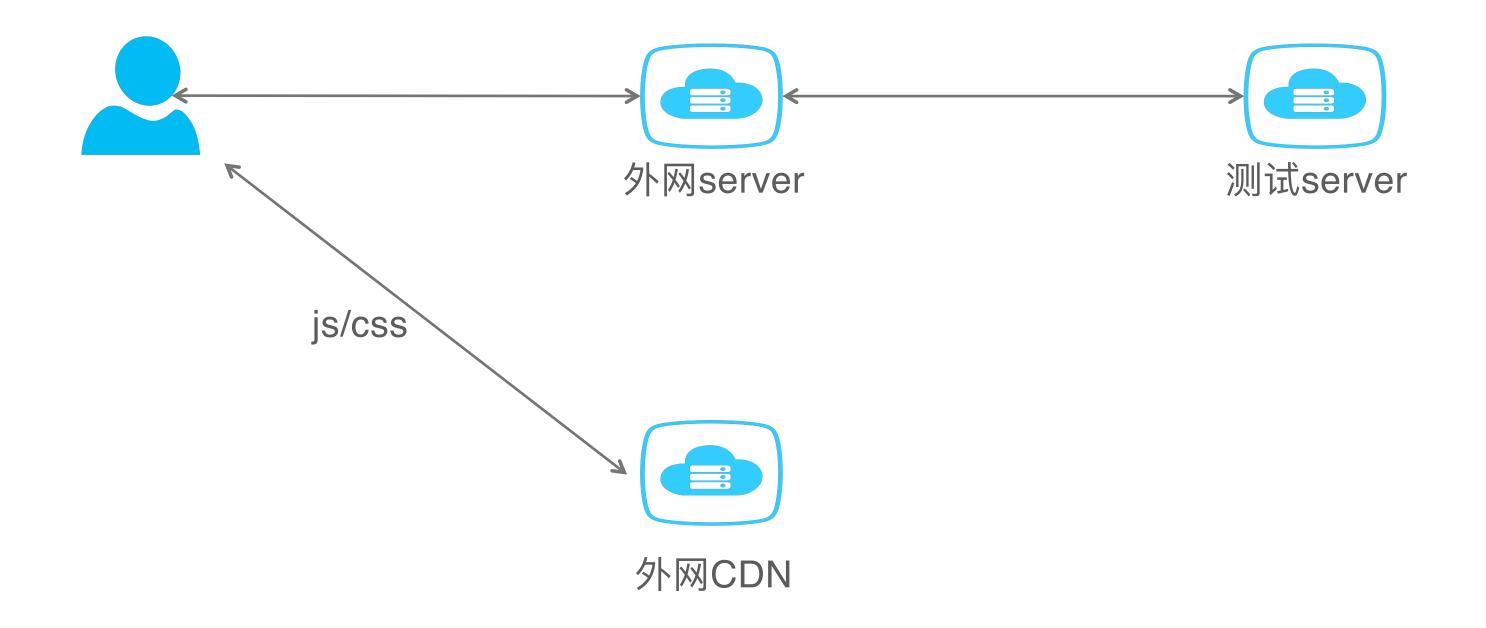




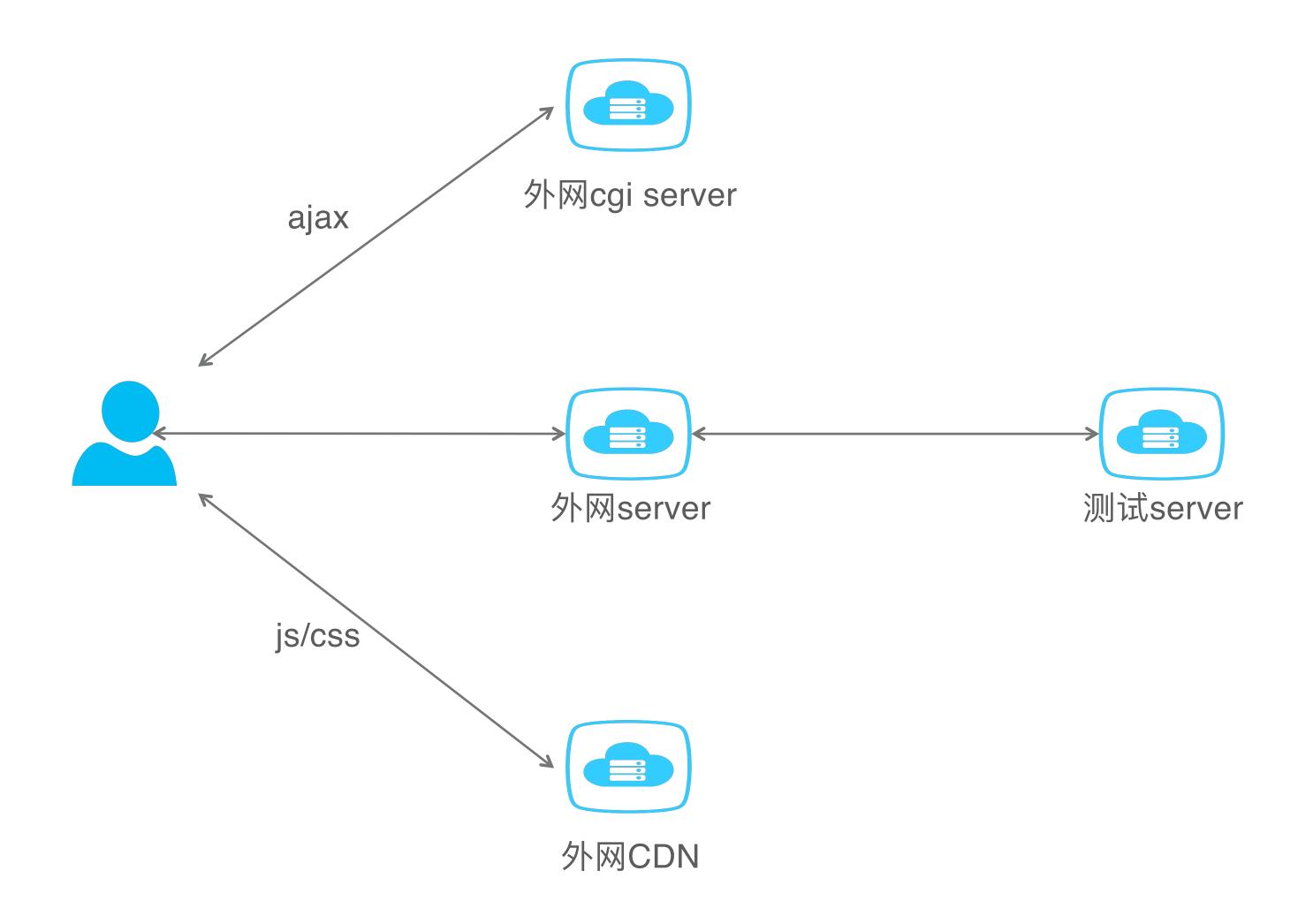




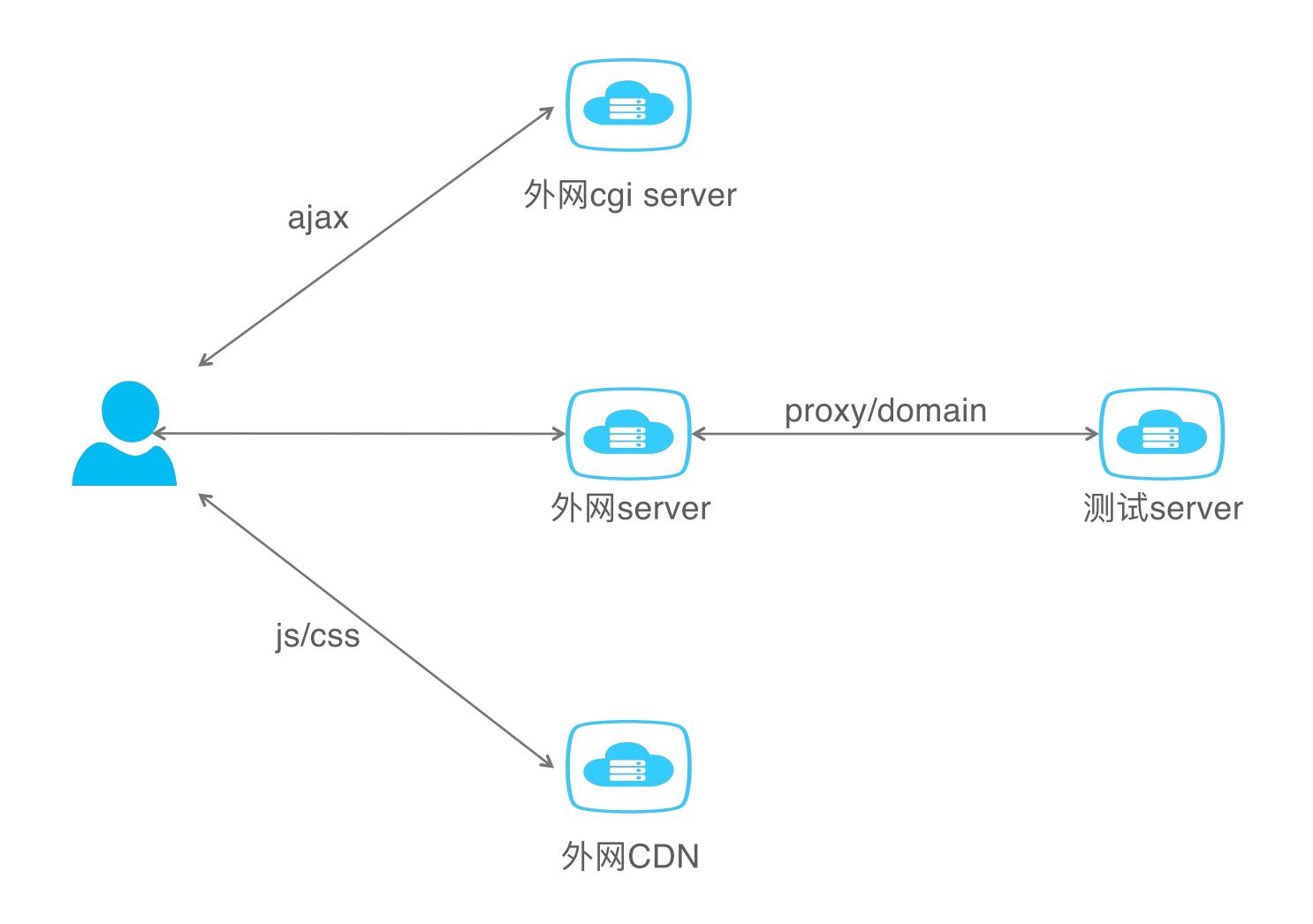




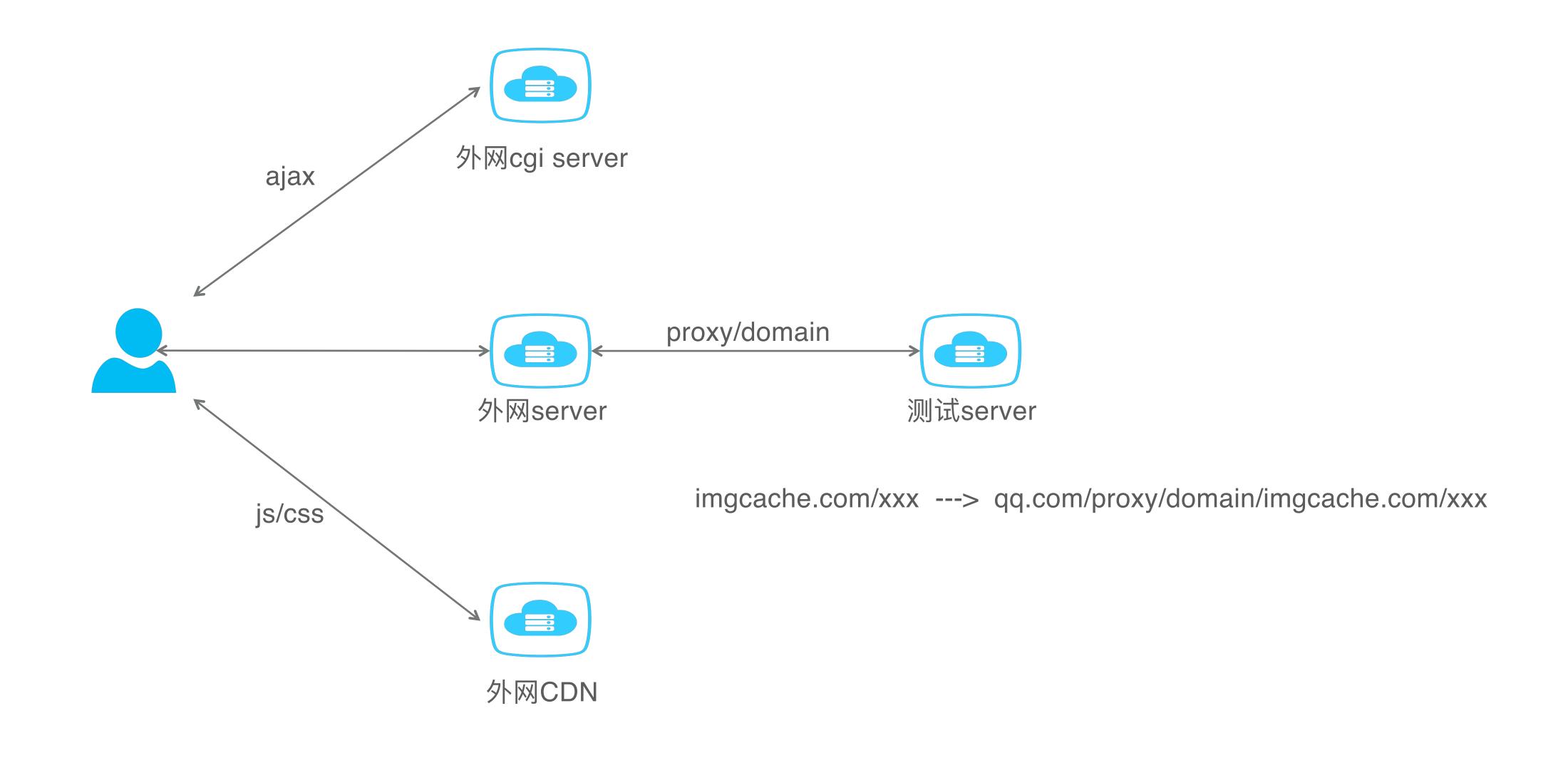




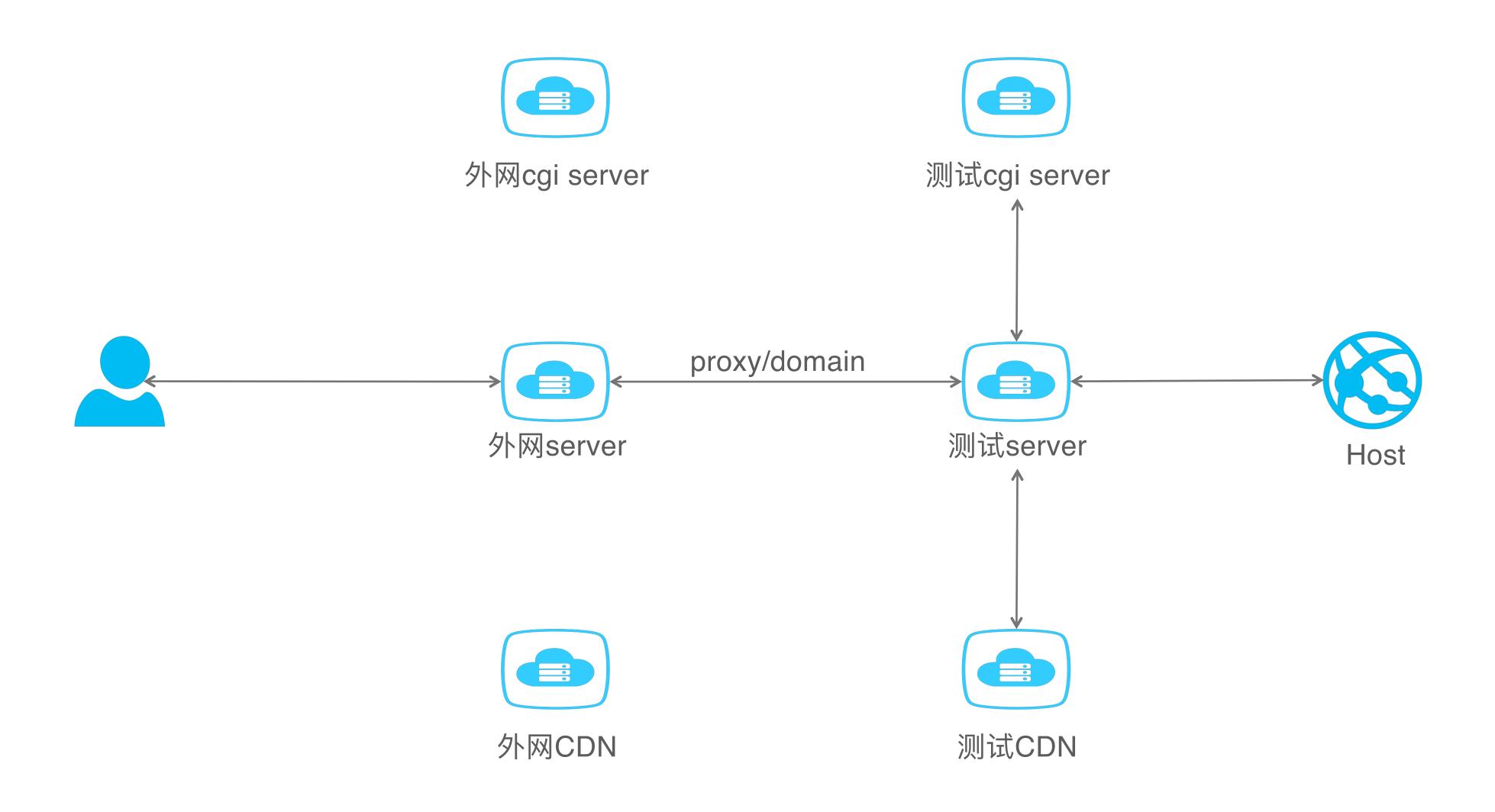




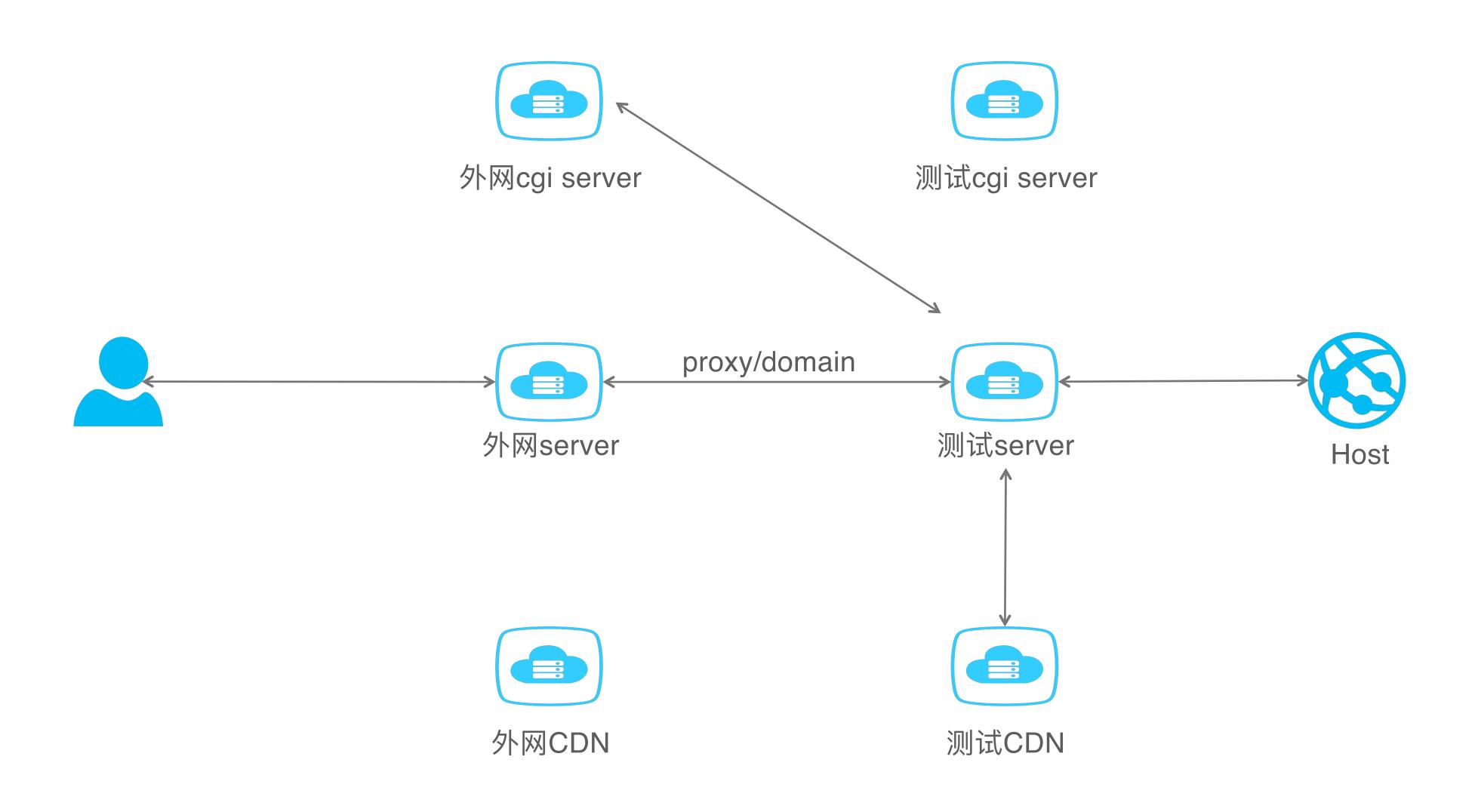










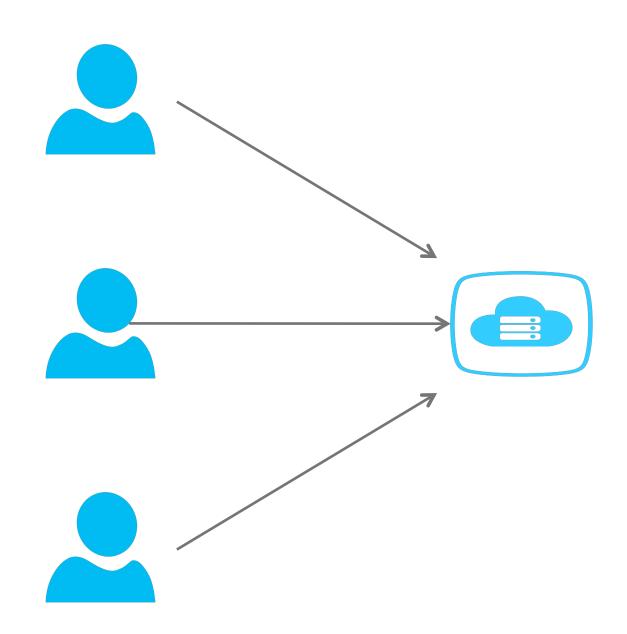




→ C https:/	//qzone.tswjs.org		☆
#1 选择测试环境			
临时染色 alph	na O The		
我是2气	10.10(负责人	
我是3号	0 10.100	负责人:	
测试环境5号	0 10.10	负责人:	
测试环境8号	10.100	负责人:	
测试环境9号	0 10.100	负责人	
我是6号	0 10.10	负责人	
测试环境15号	10.100	负责人 :	
#2 输入用户id(支持批量	,换行即可) ————————————————————————————————————		
添加删除	2		

传统日志





user1 --- req1 --- start
....

user2 --- req1 --- start
user1 --- req1 --- end
....

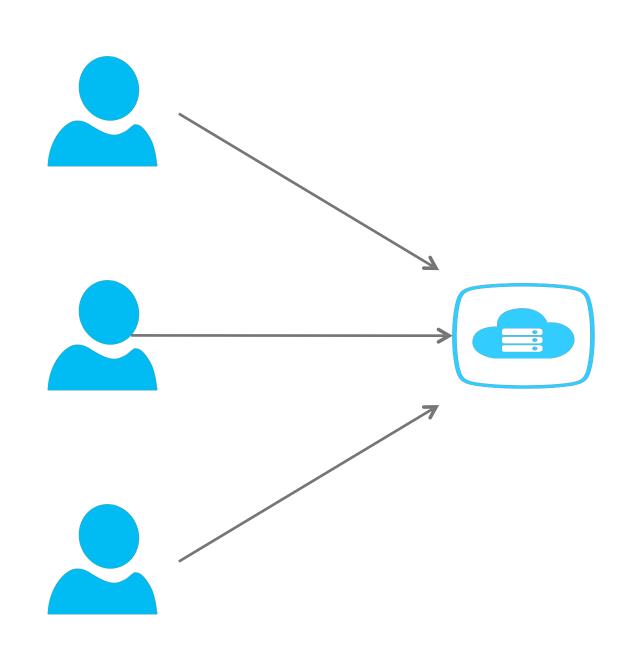
user2 --- req1 --- end
user3 --- req1 --- start
....

user2 --- req1 --- start
....

user2 --- req2 --- end

传统日志

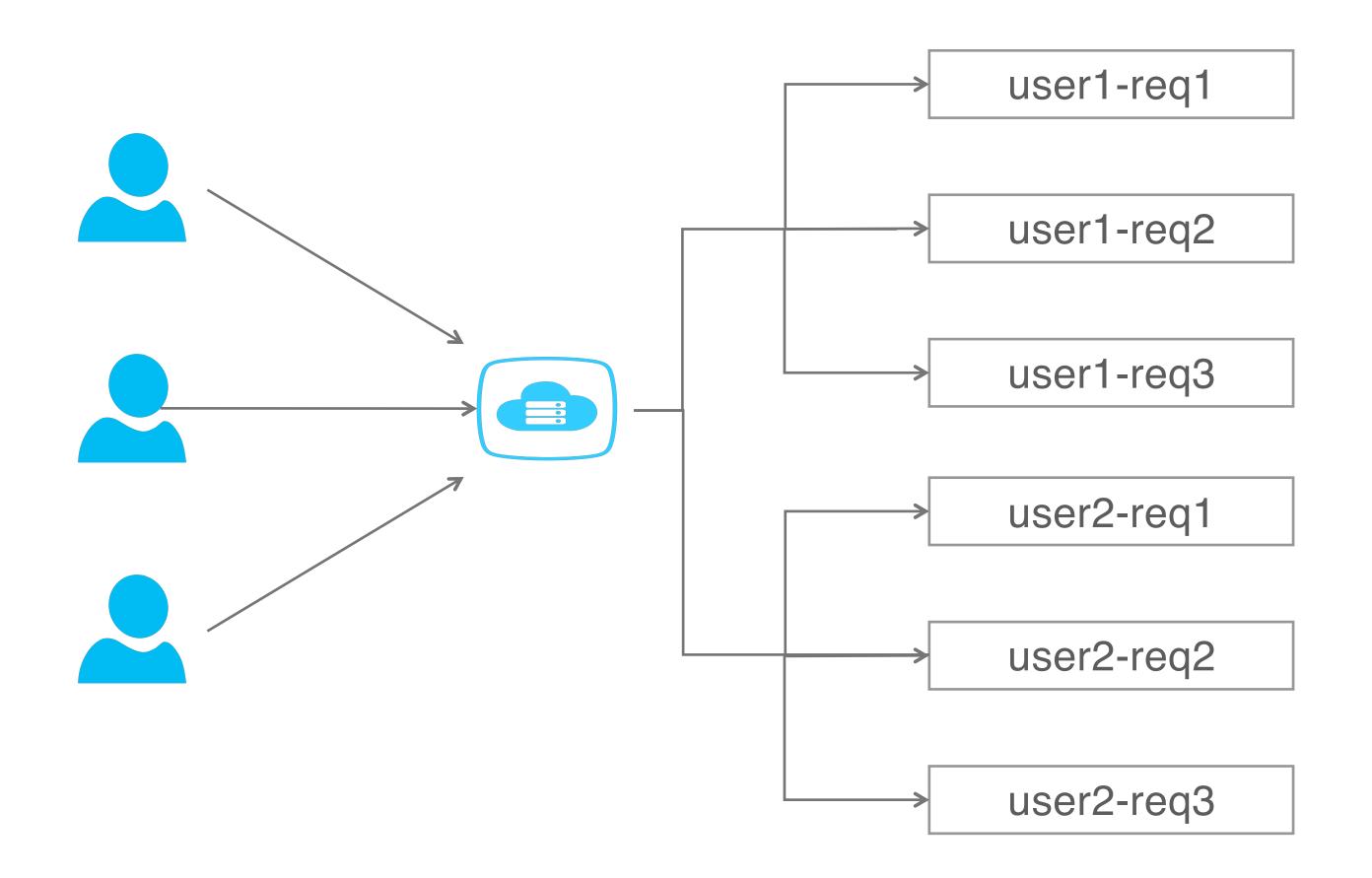




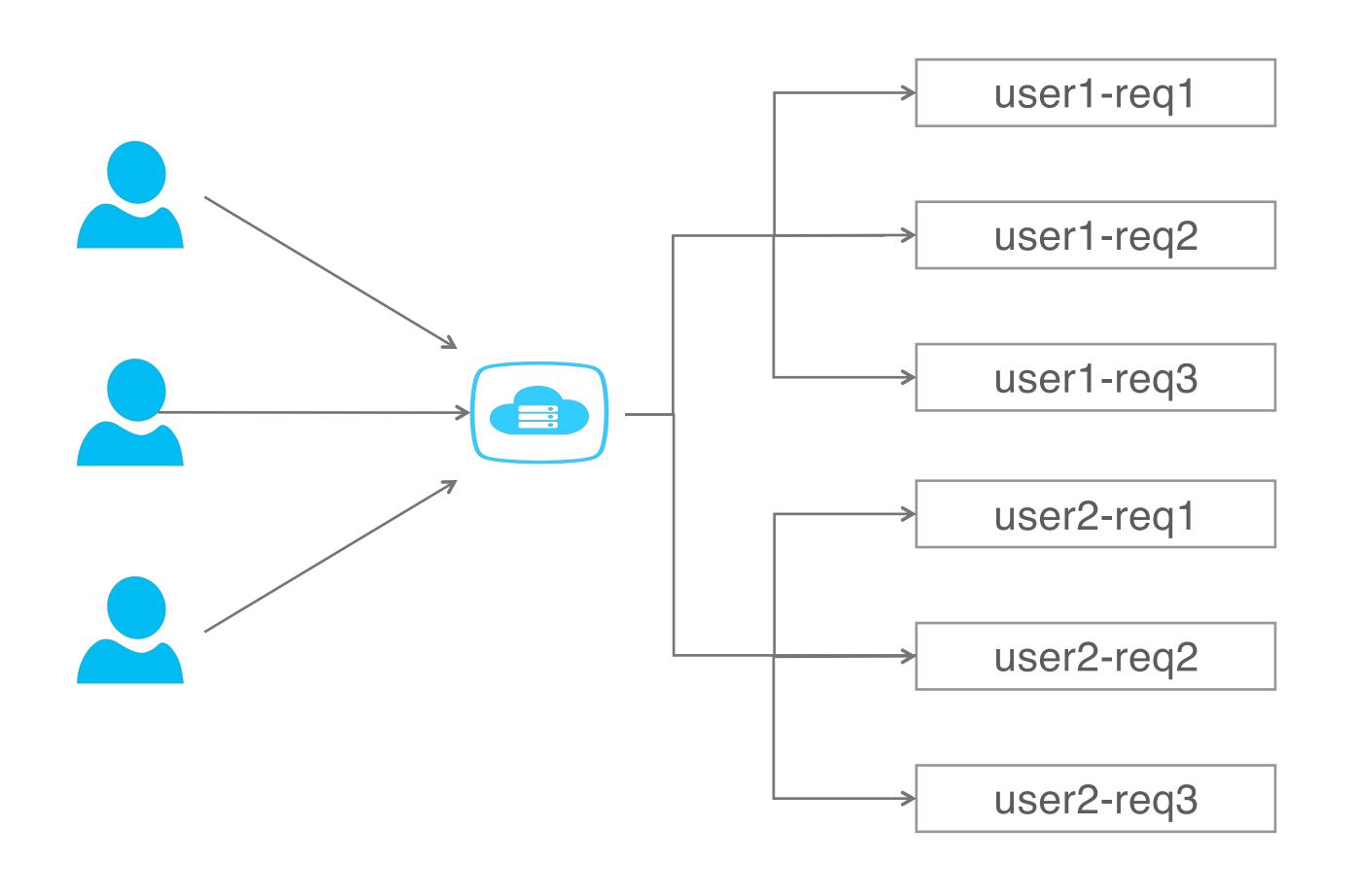
```
user1 --- req1 --- start
user2 --- req1 --- start
user1 --- req1 --- end
user2 --- req1 --- end
user3 --- req1 --- start
user2 --- req2 --- start
user3 --- req1 --- end
user2 --- req2 --- end
```

- · 按API调用顺序,以单行日志为维度,逐 条记录
- 不同请求,不同维度代码穿插执行,看一行日志无法感知上下文
- 上机器查日志, 抓包一小时, 代码一分钟









- 按请求维度聚合
- 按用户维度聚合
- 实时查询
- 关联衍生请求



```
callback() {
     const handleRequest = (req, res) => {
          const ctx = this.createContext(req, res);
          return this.handleRequest(ctx, fn);
     };
ctx.logger.debug('debug info');
```



```
domain.create().run(function() {
     doRoute();
});
Object.defineProperty(global, 'logger', {
     get: function () {
          return process.domain.logger
```



XXXXXX

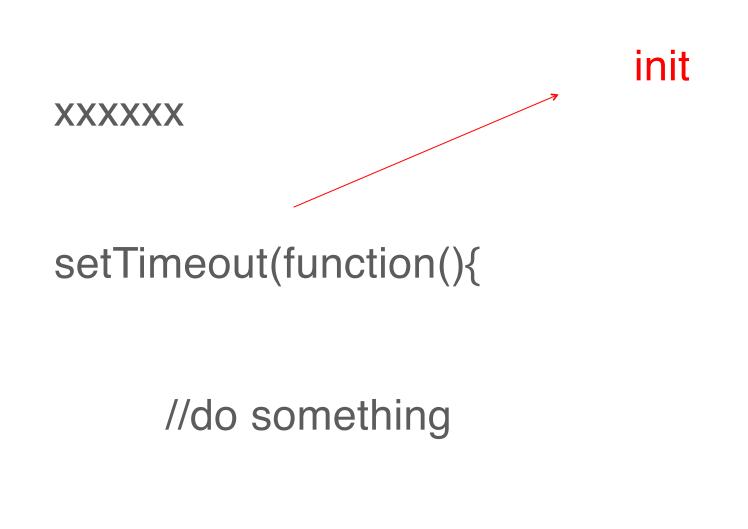
setTimeout(function(){

//do something

}, 2000)

XXXXXX

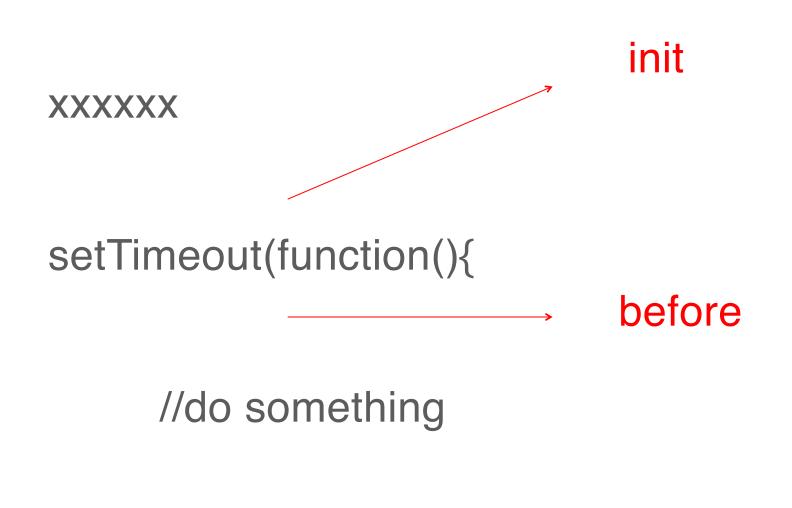




XXXXXX

}, 2000)

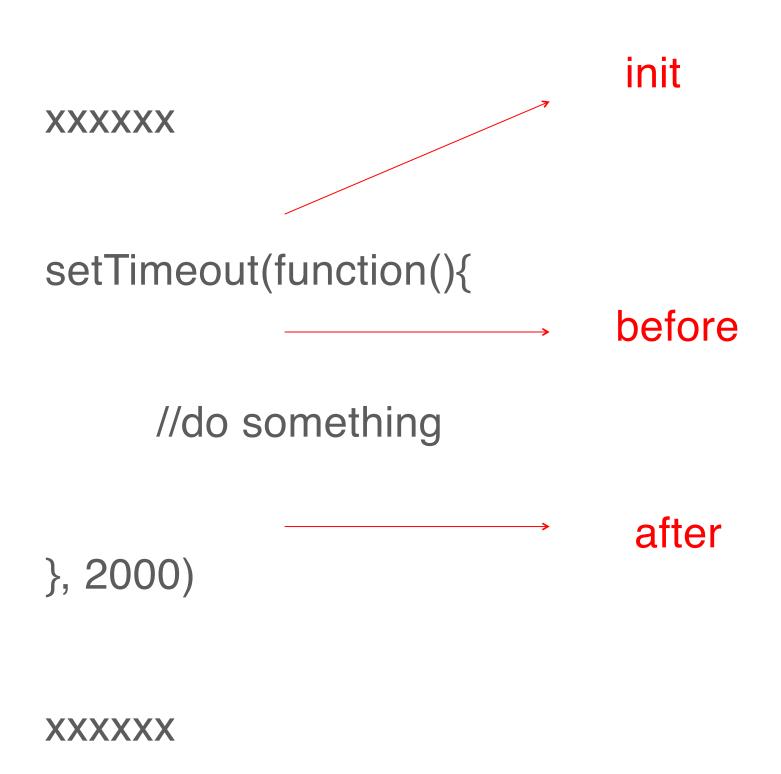




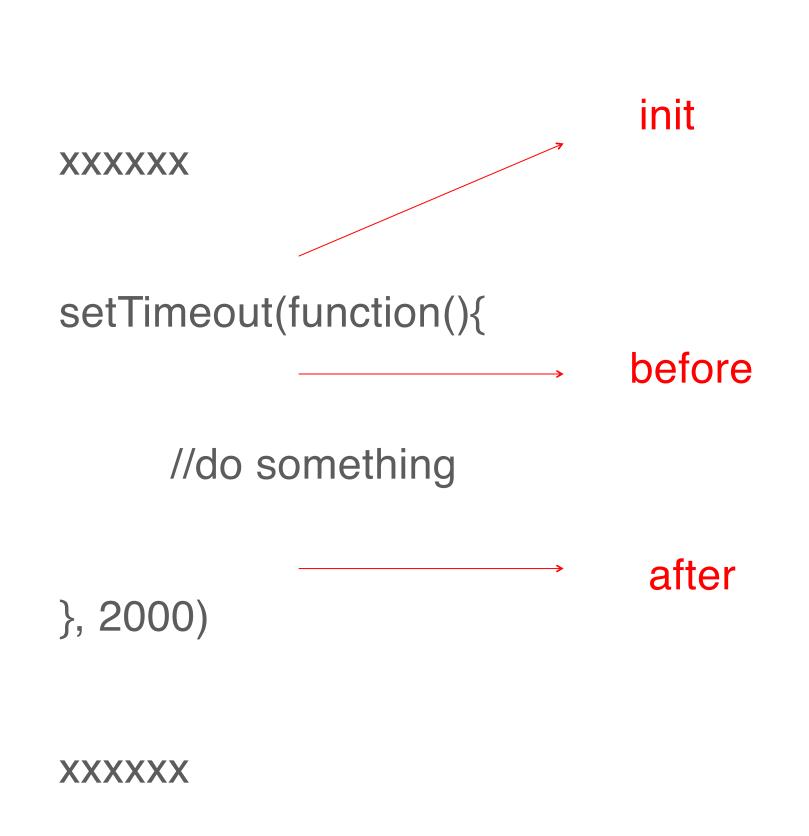
}, 2000)

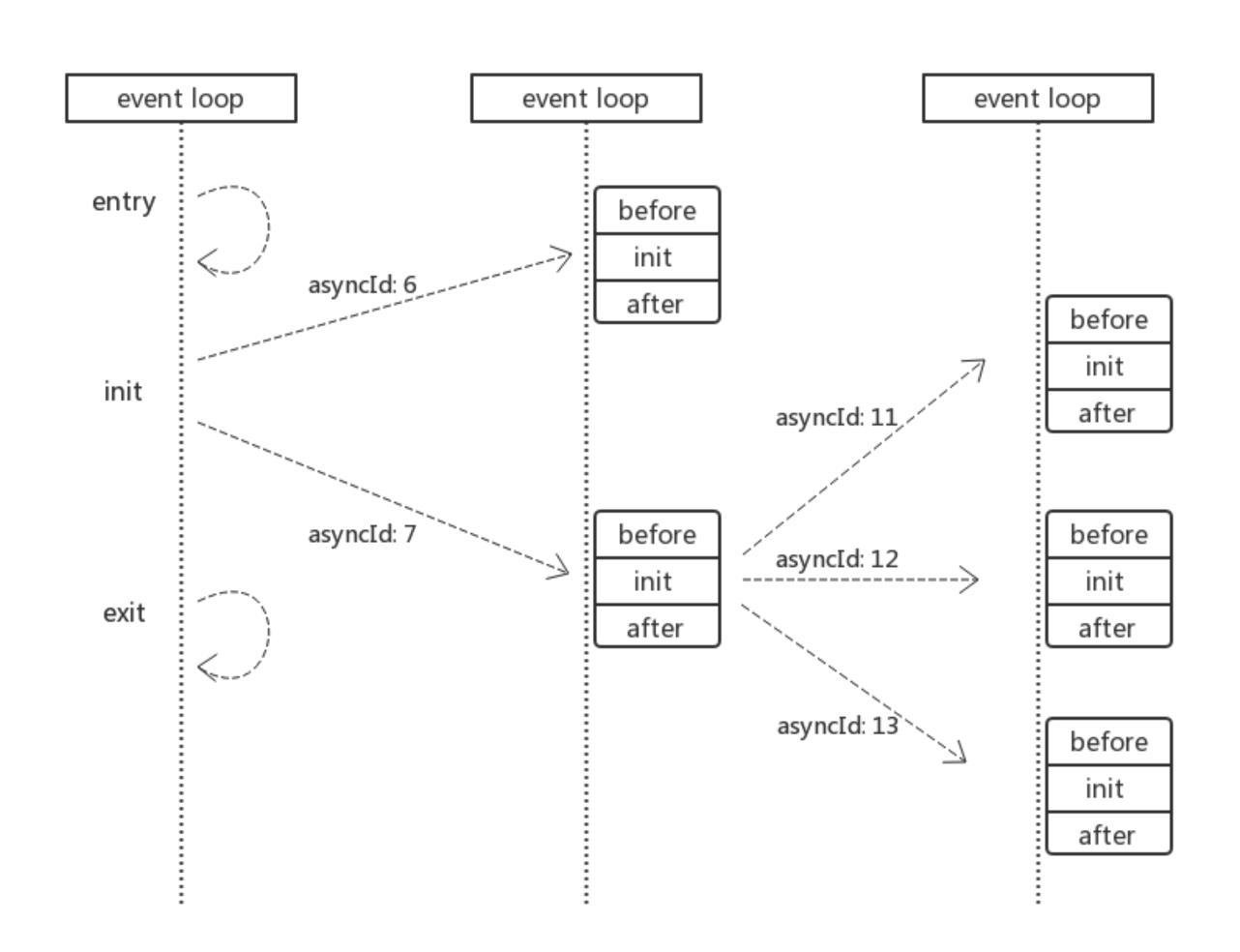
XXXXXX













HTTP

> 生命周期短,请求完成即上报



HTTP

> 生命周期短,请求完成即上报

WebSocket

> 生命周期长,日志分片上报、定时上报



HTTP

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衍生请求

➤ 支持fiddler、charles、whistle等查看重放



HTTP

> 生命周期短,请求完成即上报

WebSocket

> 生命周期长,日志分片上报、定时上报

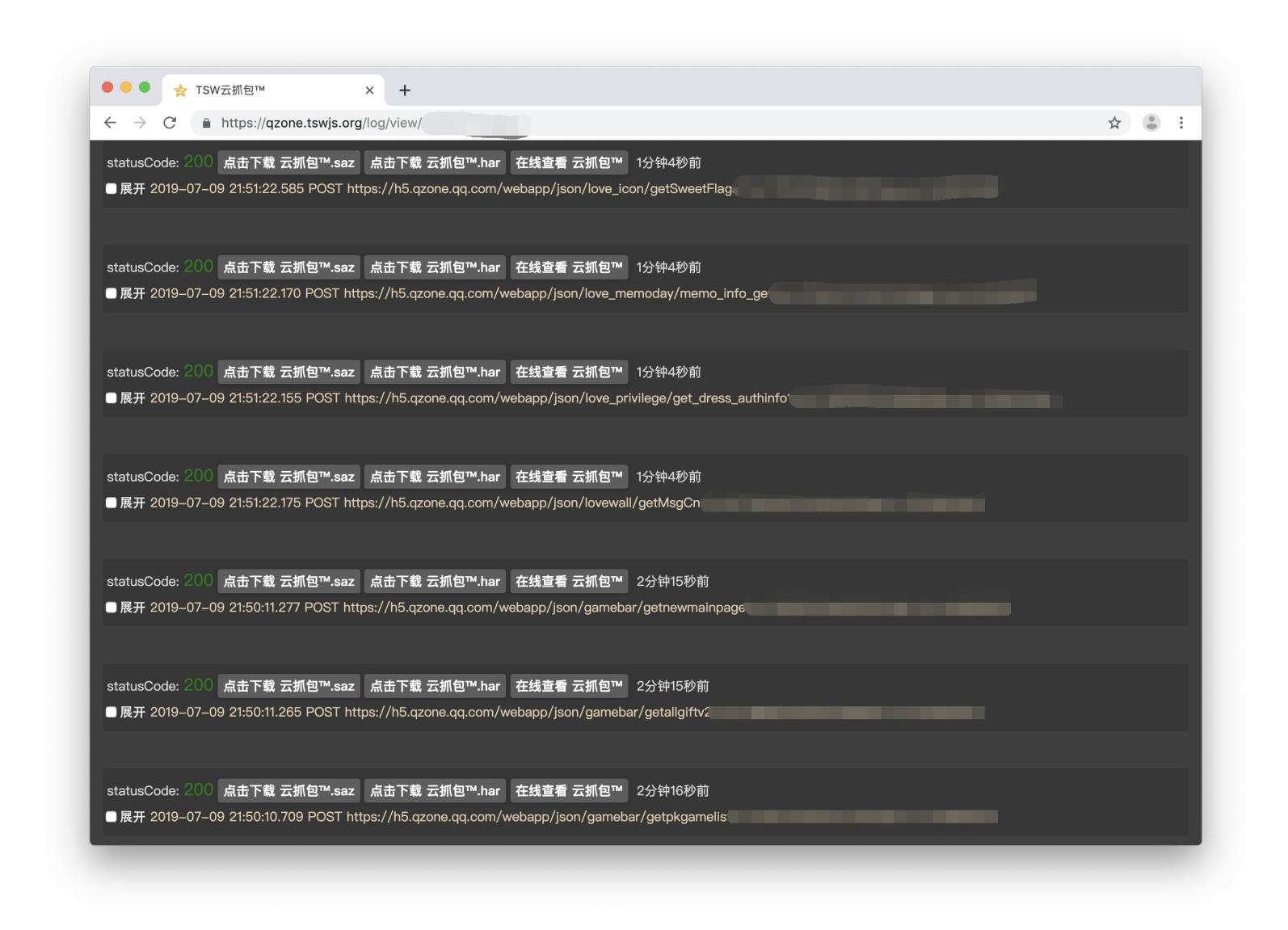
衍生请求

➤ 支持fiddler、charles、whistle等查看重放

错误日志

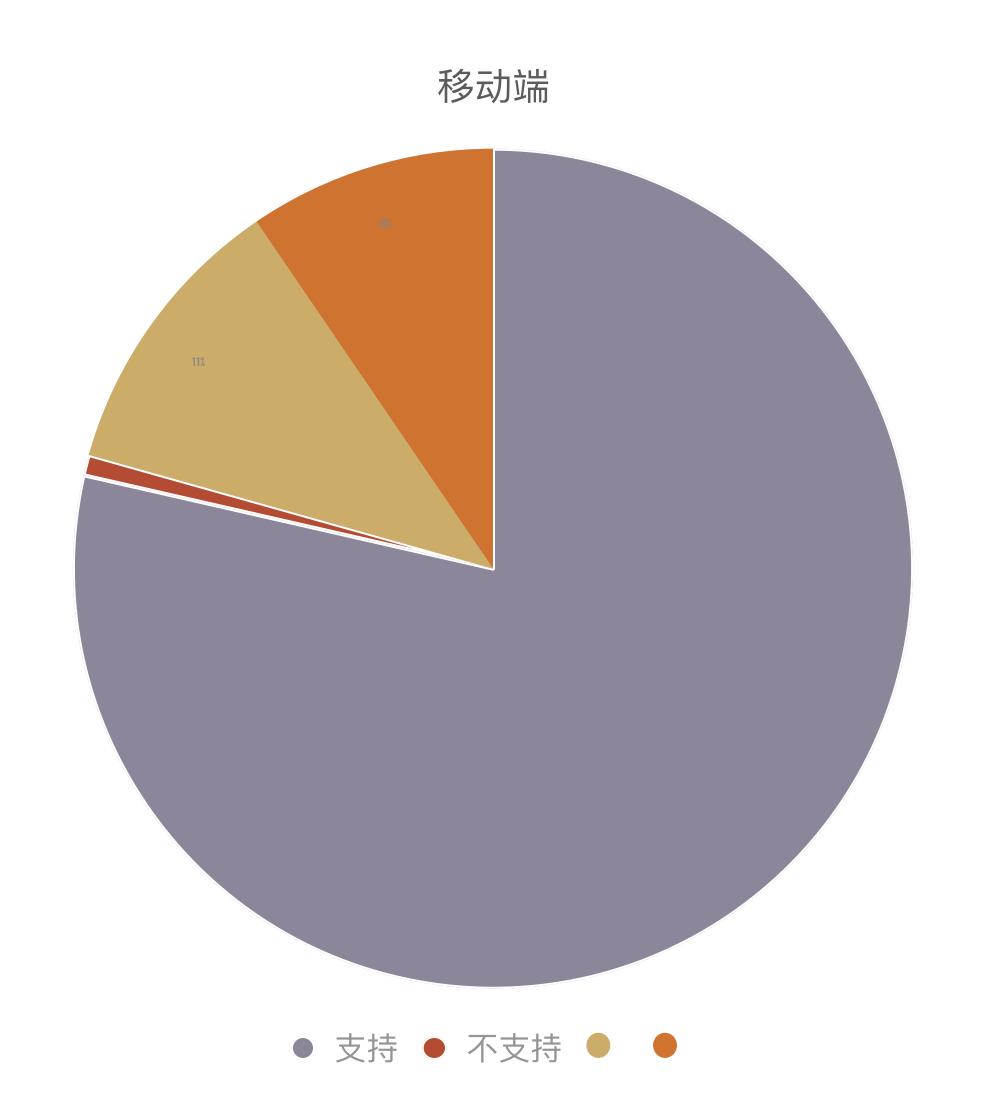
- ➤邮件告警
- >全量上报,存储一定时间

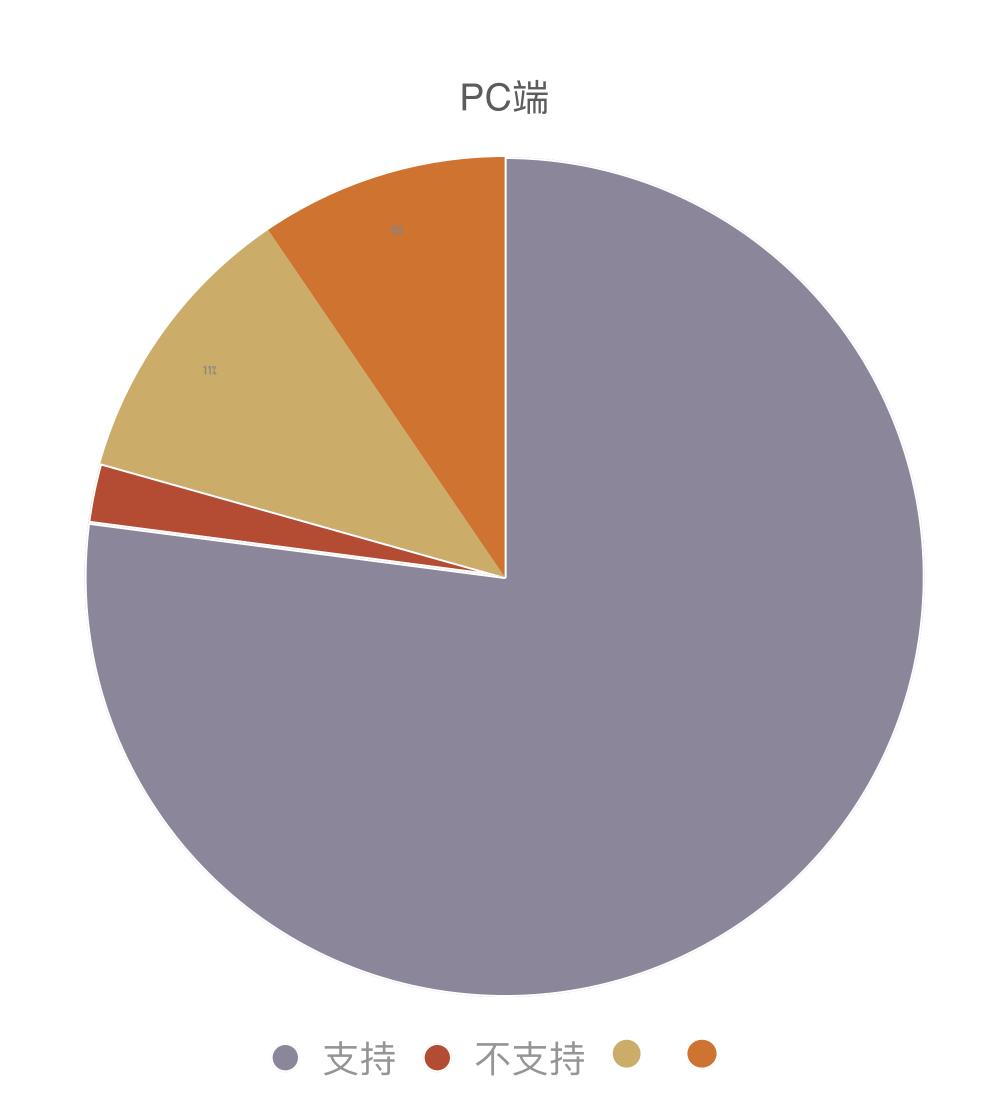




支持率

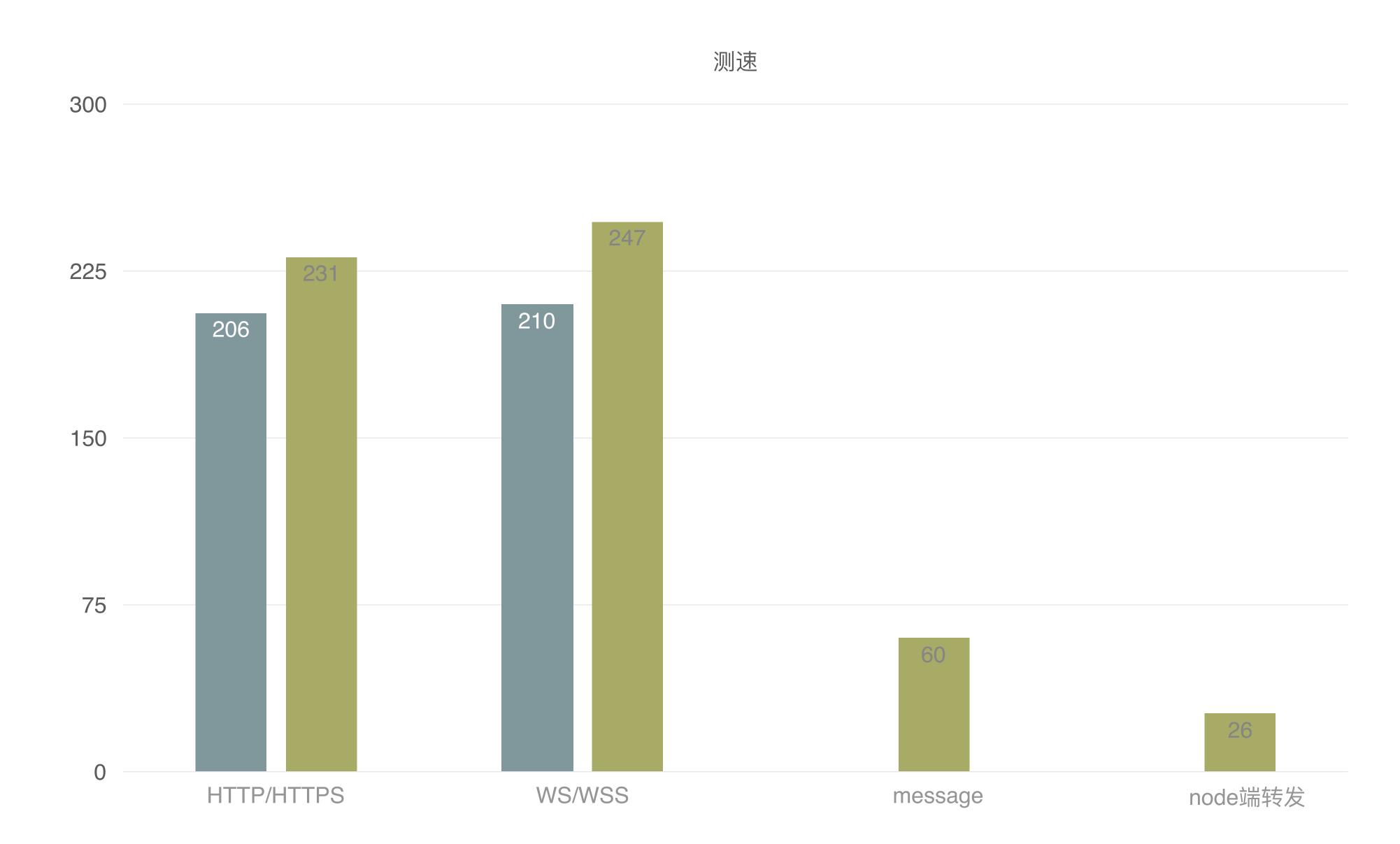






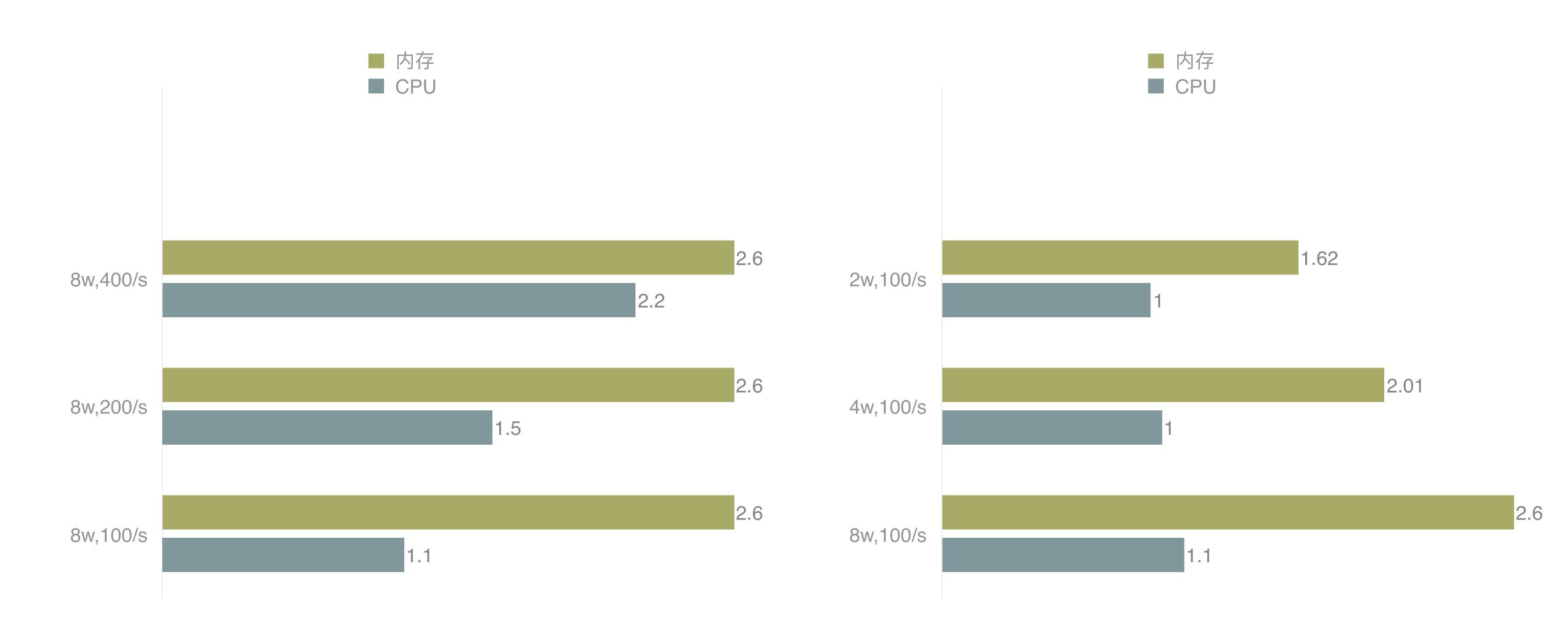






压测







Thank you for your attention!

魏天亮