

OR在马蜂窝业务场景应用和探索

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武汉





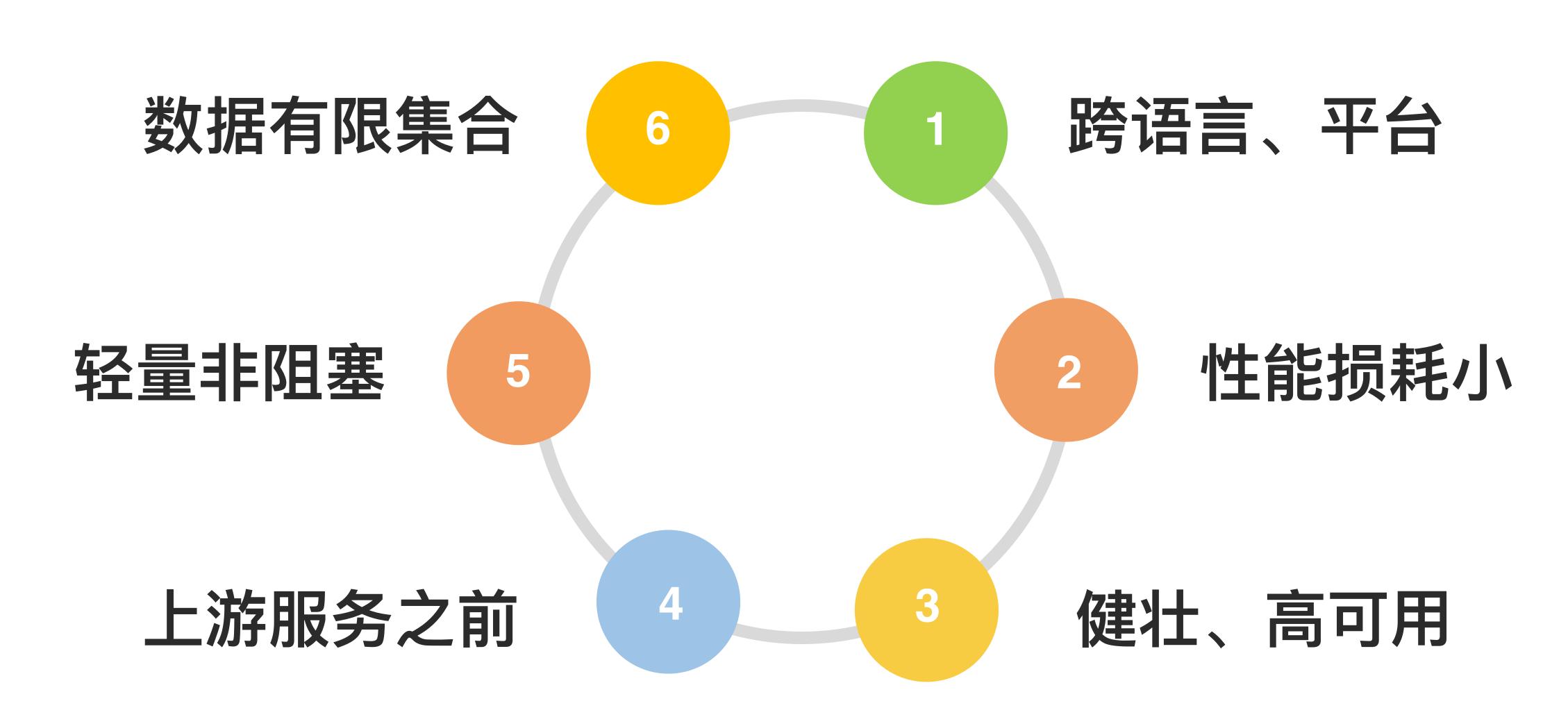














Why OR?

非OR

- X sdk接口,跨语言成本高
- **X** 20ms 100ms,偶有超时
- > 侵入业务代码
- 》同步阻塞,影响业务

OR

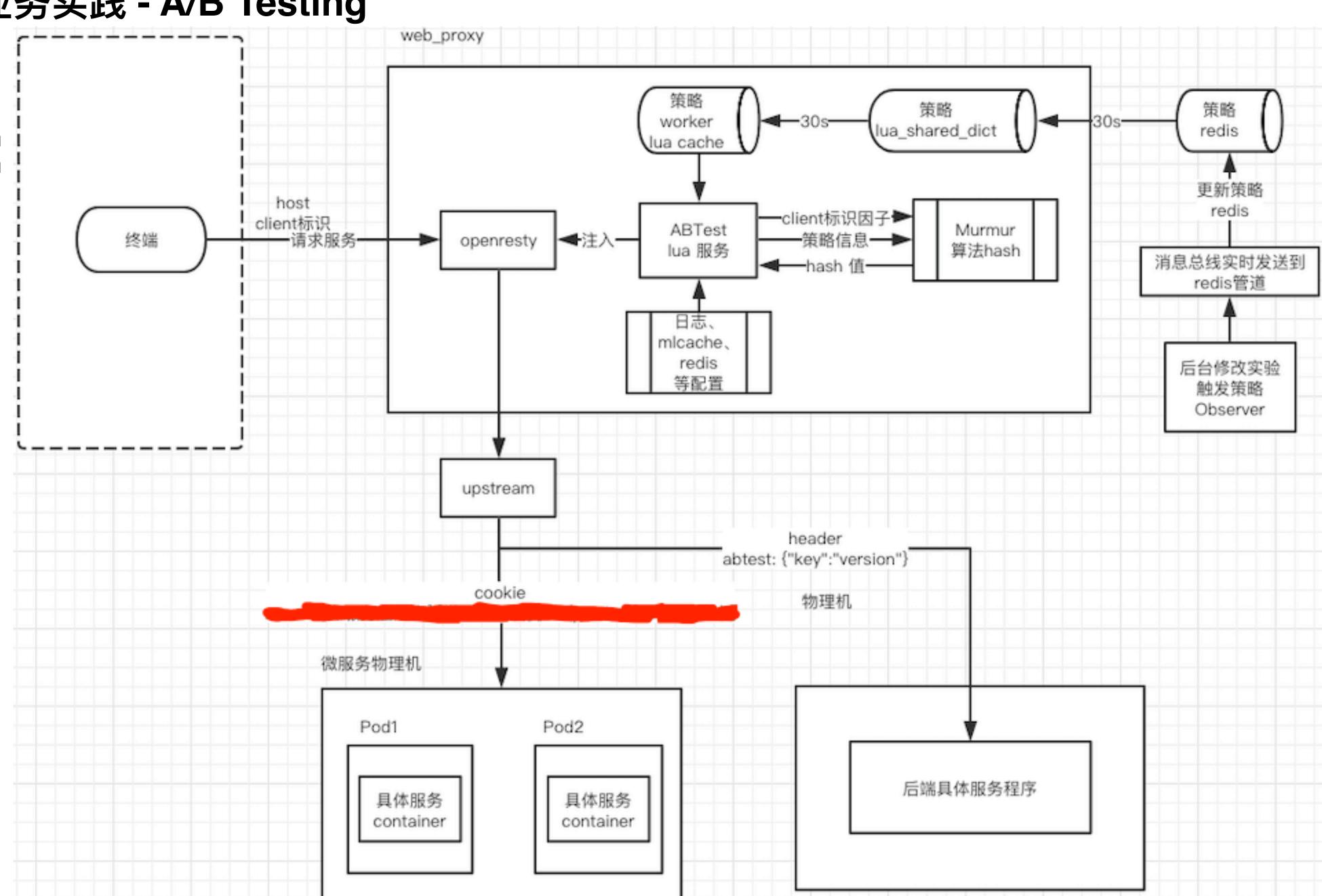
- ✓ header map透传,不区分语言、平台
- ✓ 1ms-2ms,无超时
- ✓ 无代码侵入
- ✓ 异常自动降级



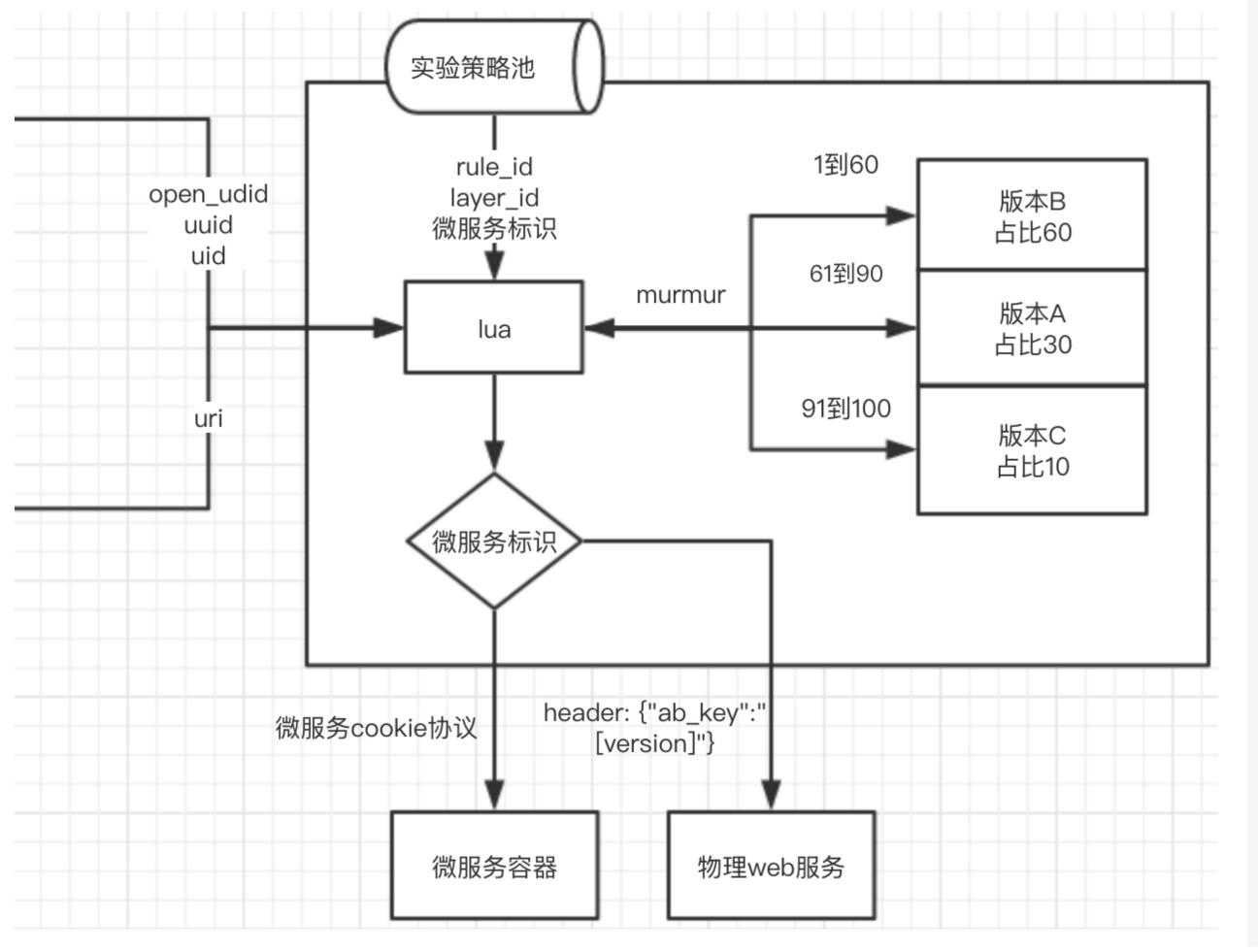
业务实践 - A/B Testing

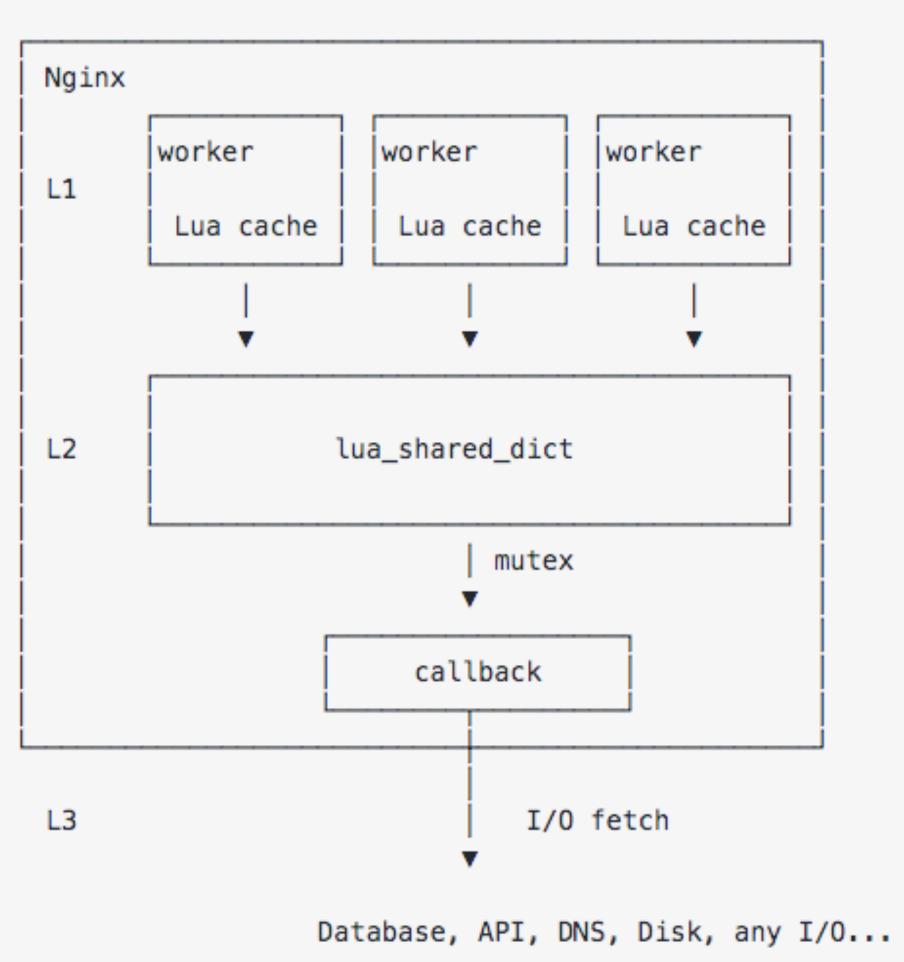


How:



How:







坑:

注意:

回源尽量长连接

```
local getfromredis = function()
    --log:info("get from redis
    local redis = redisMod:new()
    local ok, err = redis:connectdb()
    if not ok then
        --log:errlog("get from redis err --
        dlog:err("redis", "connect redis err "..err)
        return {}, err
    end
    return redis.redis:hvals("abtest:rules")
    local data,err = redis.redis:hvals("abtest:rules")
    redis:keepalivedb()
    return data,err
end
```

```
Nginx connections active on 80 [avg]
Nginx connections reading on 80 [avg]
Nginx connections waiting on 80 [avg]
Nginx connections writing on 80 [avg]
Trigger: Nginx 80 writing
```



业务实践 - A/B Testing



测试:

测试工具:

jmeter

测试环境:

16核x2, 128G单机

并发数:

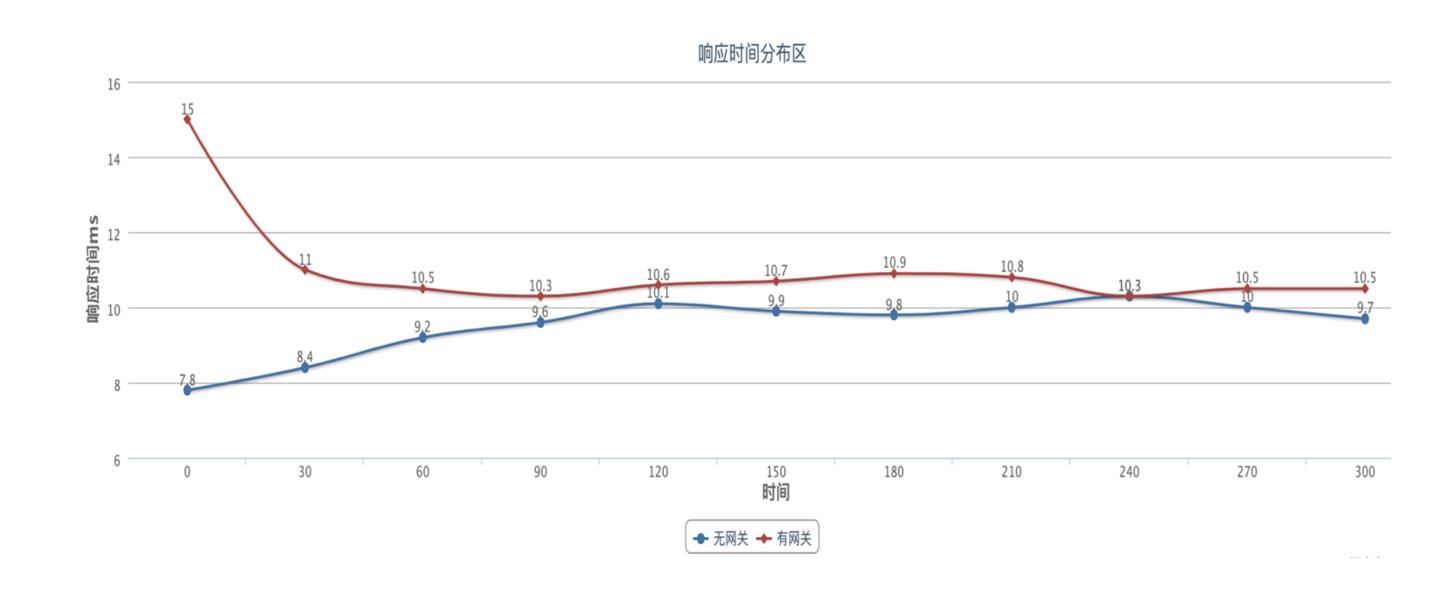
100

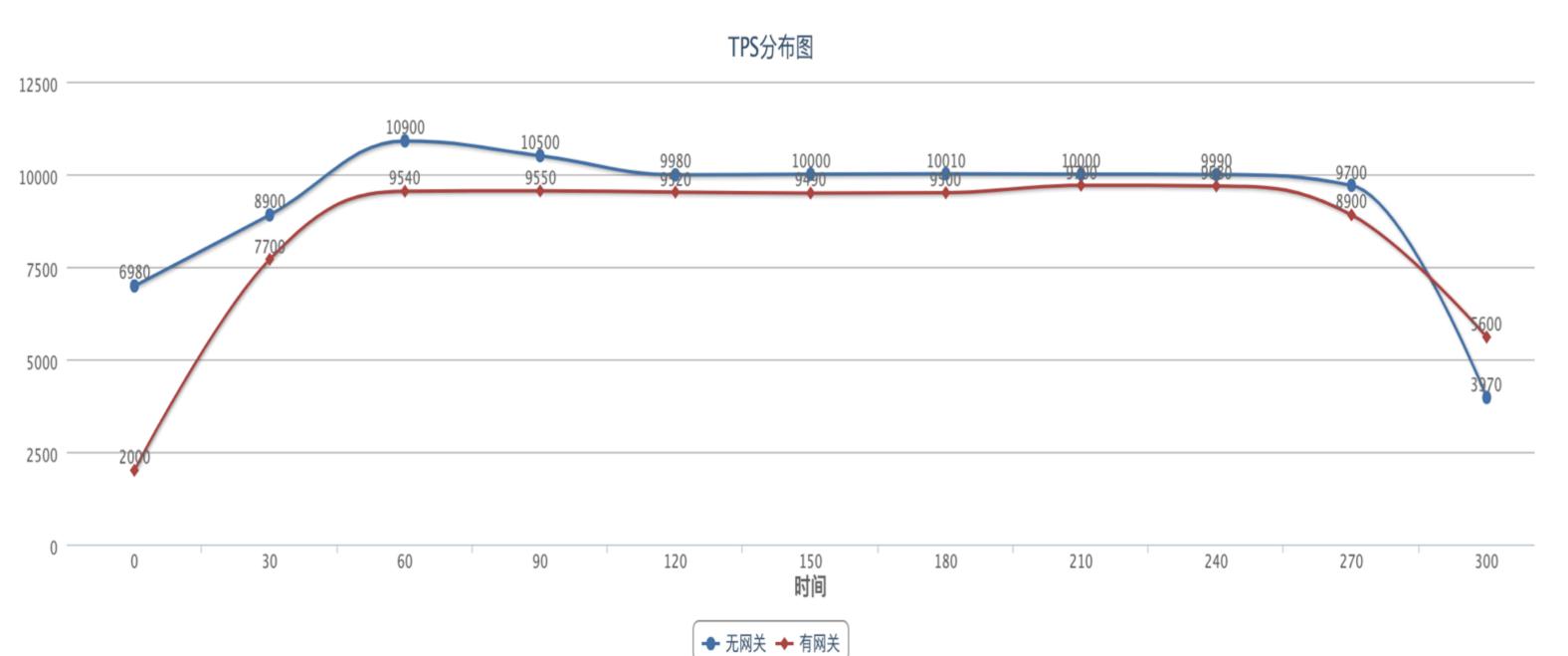
持续时长:

300s

结论:

使用ABTest响应时长不超过2ms,随时间推移响应时长和



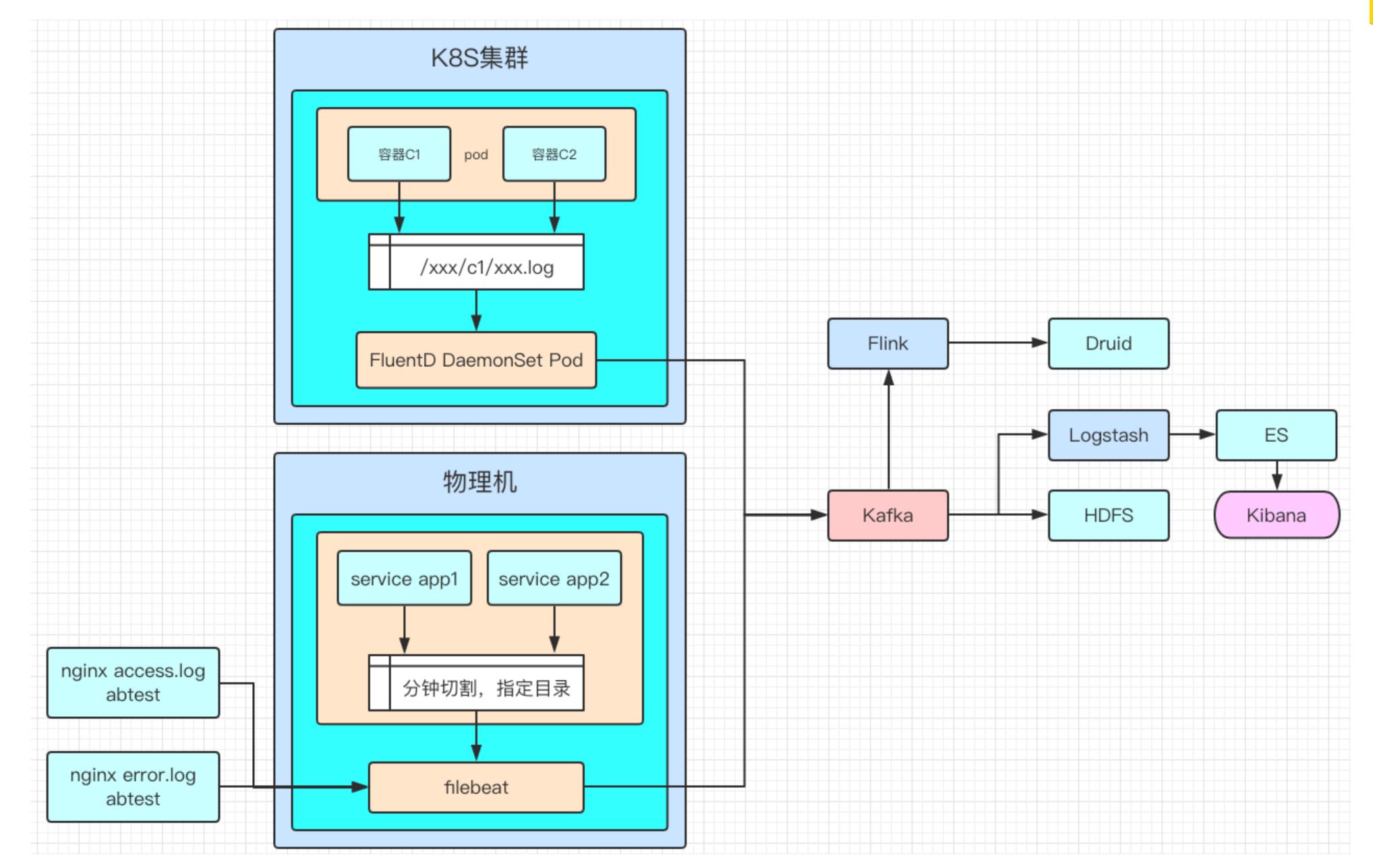




业务实践 - A/B Testing



数据:



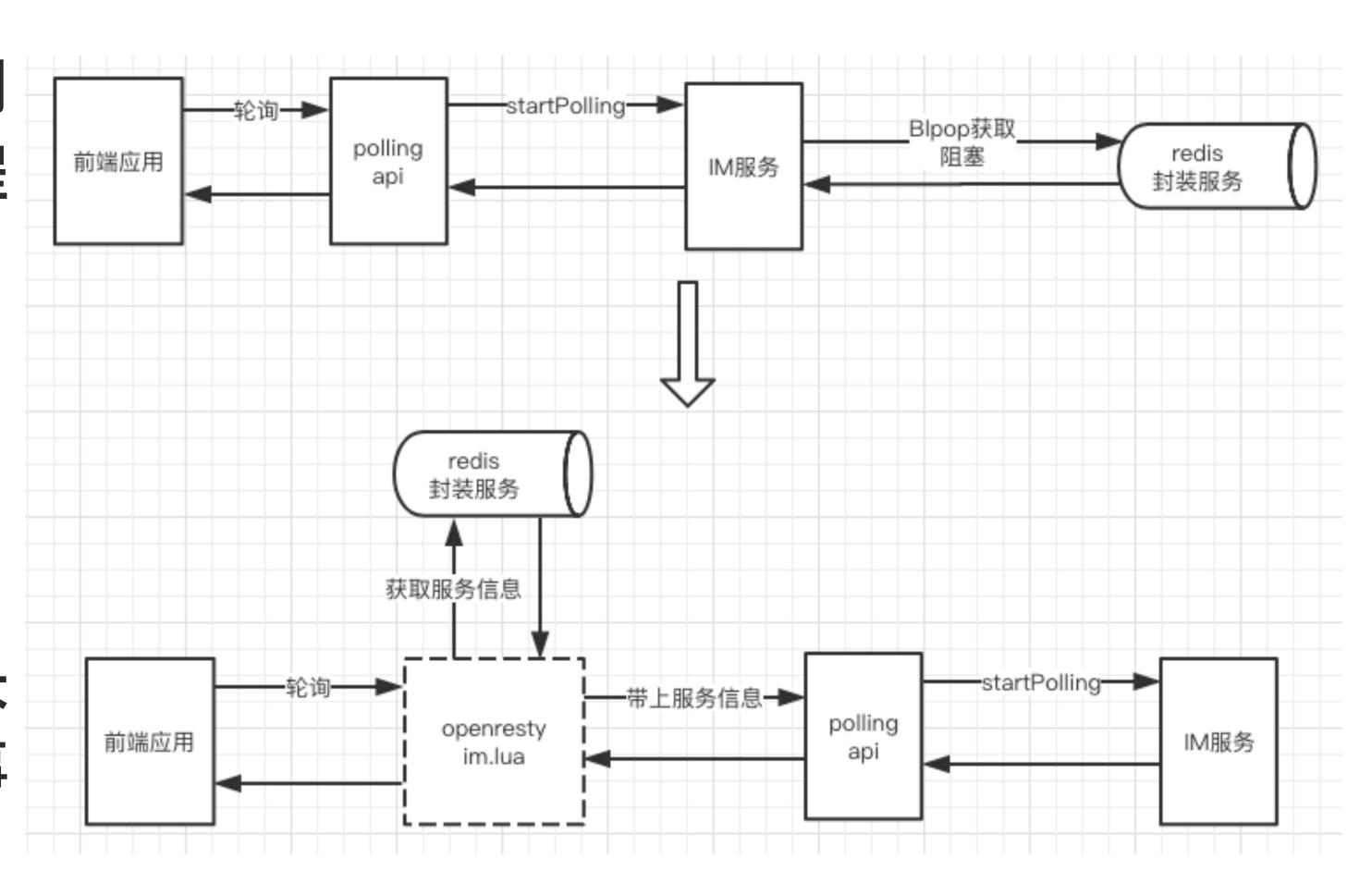




原: 请求php polling 服务接口,使用Blpop阻塞获取redis服务应用数据(业务需求),导致php进程挂起php-fpm一直处于占用状态,大量消耗服务器资源



新:通过Lua协程来接管必要的长连接,释放php-fpm去做其它事情,节省服务器资源

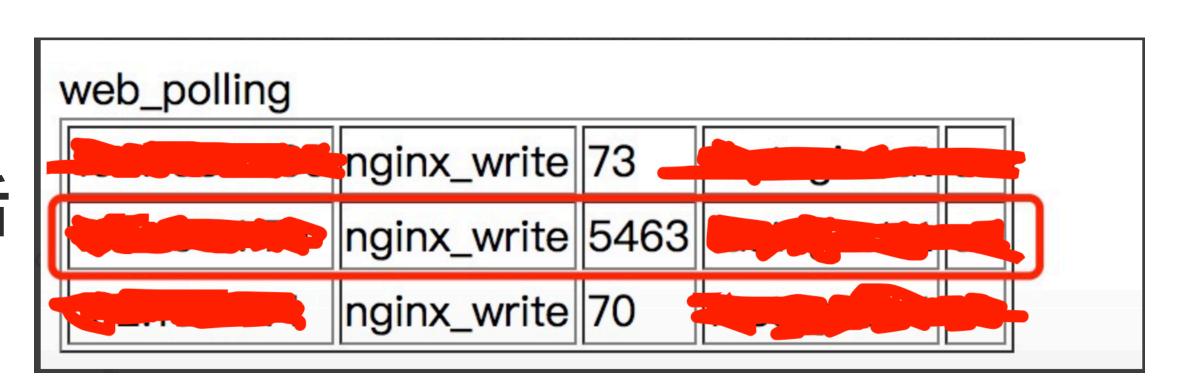






测试:

测试集群设置某台web部署lua脚本后可承载的流量明显高于原来



生产: 现在单台 = 原来3台物理机

最新: websocket + go + lua

lua 主要前置一些标记位等简单逻辑

注意点:

lua_shared_dict 跨 worker只能在 http 上下文中出现 lua_shared_dict 写的mutex其实是自旋锁+互斥锁的混合锁 reload会清除 shared_dict 的缓存数据,要注意ops 操作对dev业务的影响 如果是nginx ingress 在 restart后注意各种配置是否有持久化存储

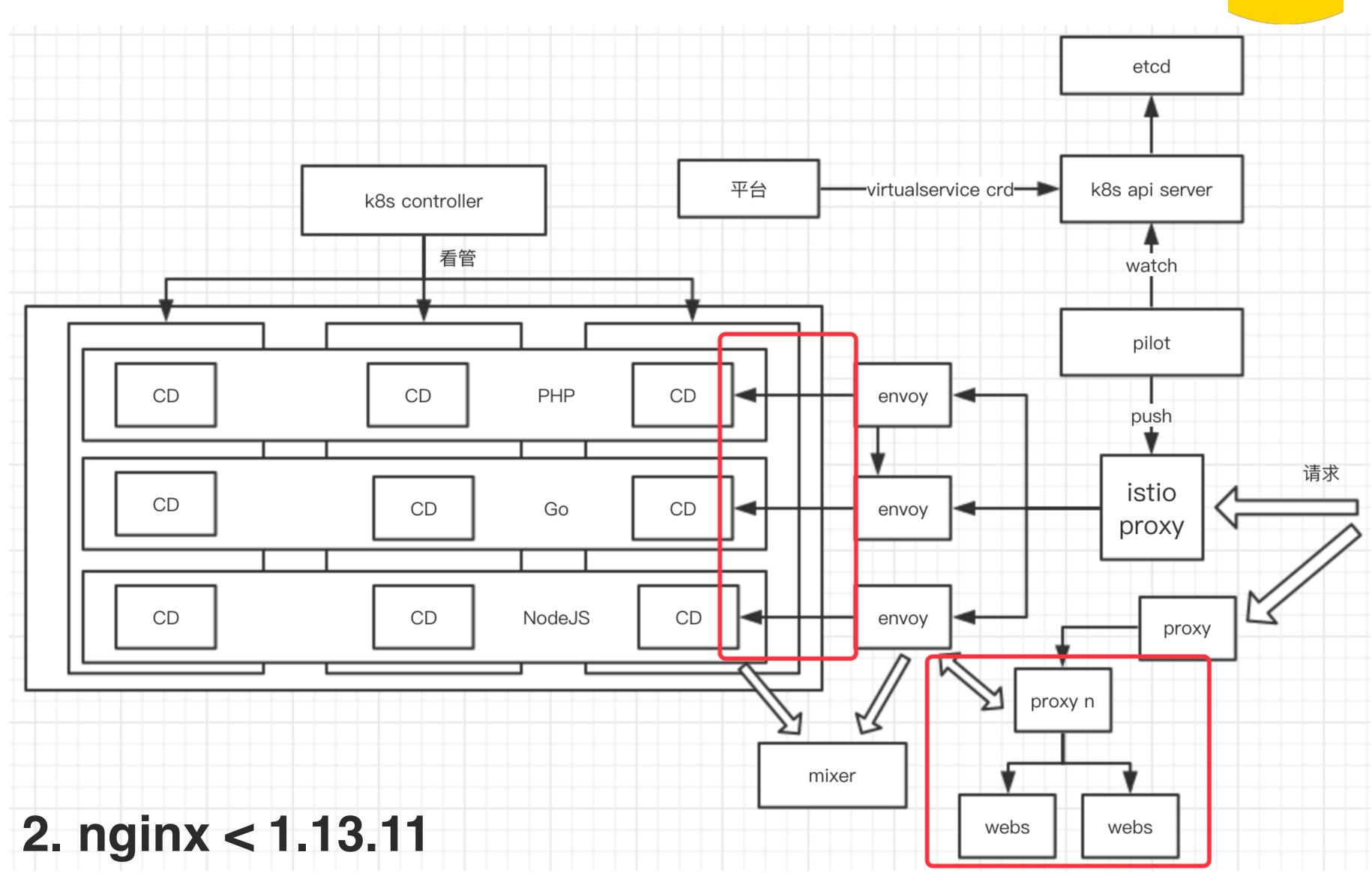


计划:

- 1. JWT
- 2. 链路追踪
- 3. WAF
- 4. 业务数据逻辑前置 upstream

待解决:

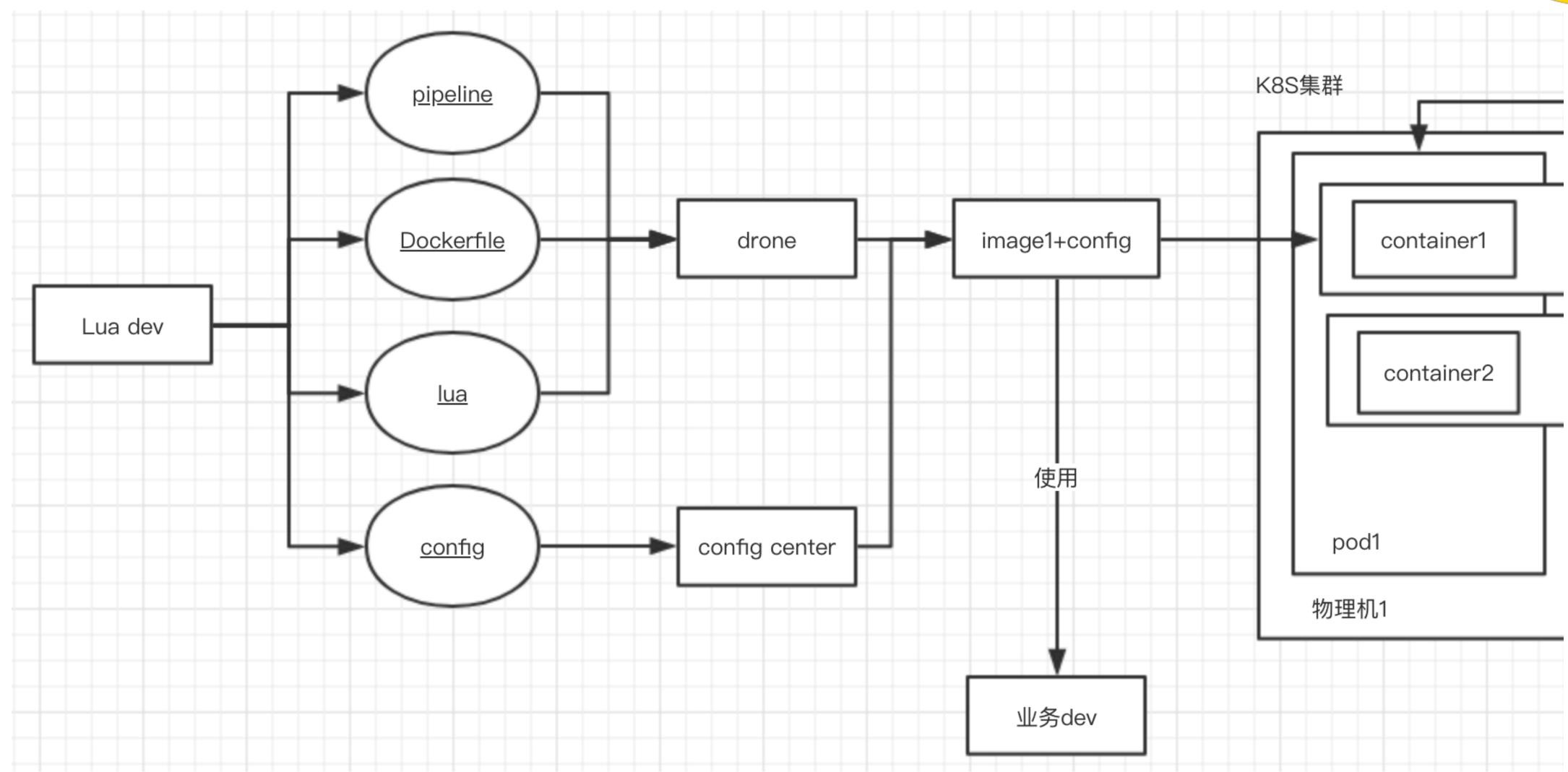
1. lua部署位置特殊, 部署对ops侵入, 带来成本与风险



不支持支持nlb的proxy protol v2







待解决问题3:运行时监控、性能监控、预警待完善



Thanks

Q&A