



中国移动开发者大会
Mobile Developer Conference China 2016

云信 IM 推送保障及网络优化实践

周江华

- 09~ 现在 IM 开发
- 11~12 iOS 客户端开发
- 12~ 现在 Android 客户端开发
- 14~ 现在 云信 IM SDK 开发



社交



电商



教育



医疗

✓ Instant

有新消息能立即收到，消息推送无延迟

✓ Messaging

稳定可靠，安全，消息不丢，不乱，不重复

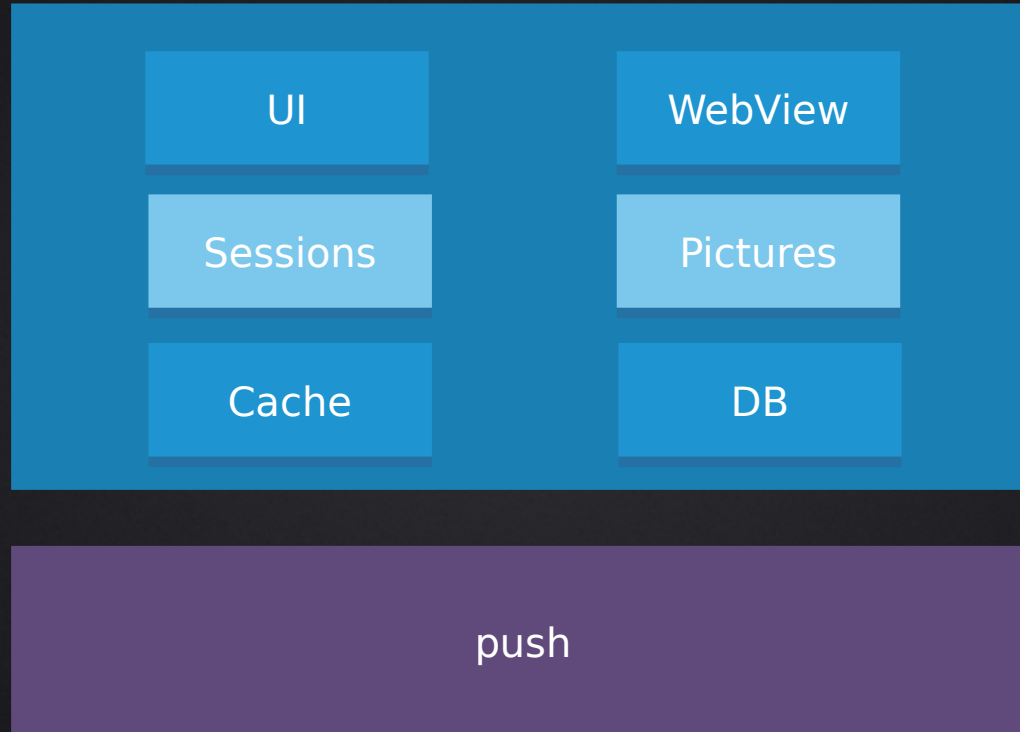


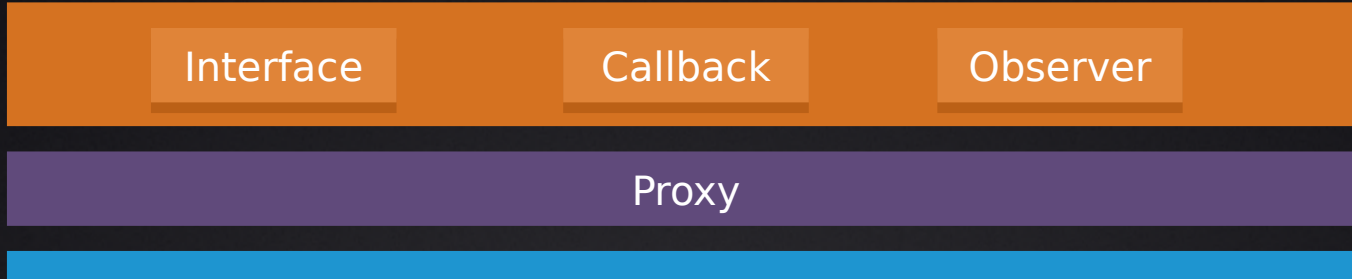
后能松动了！



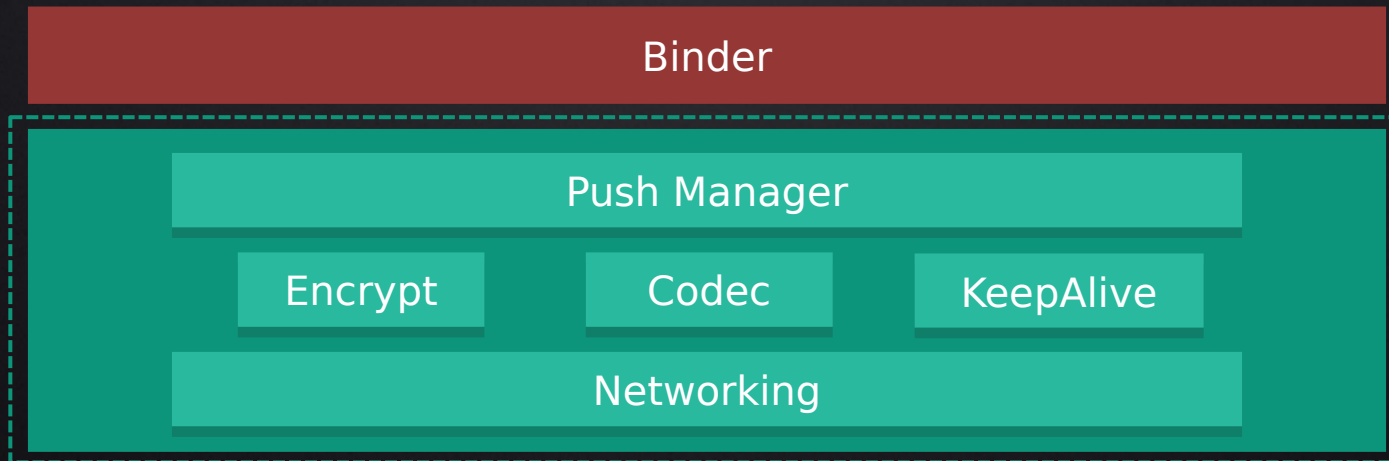
- 内存占用
- 进程优先级

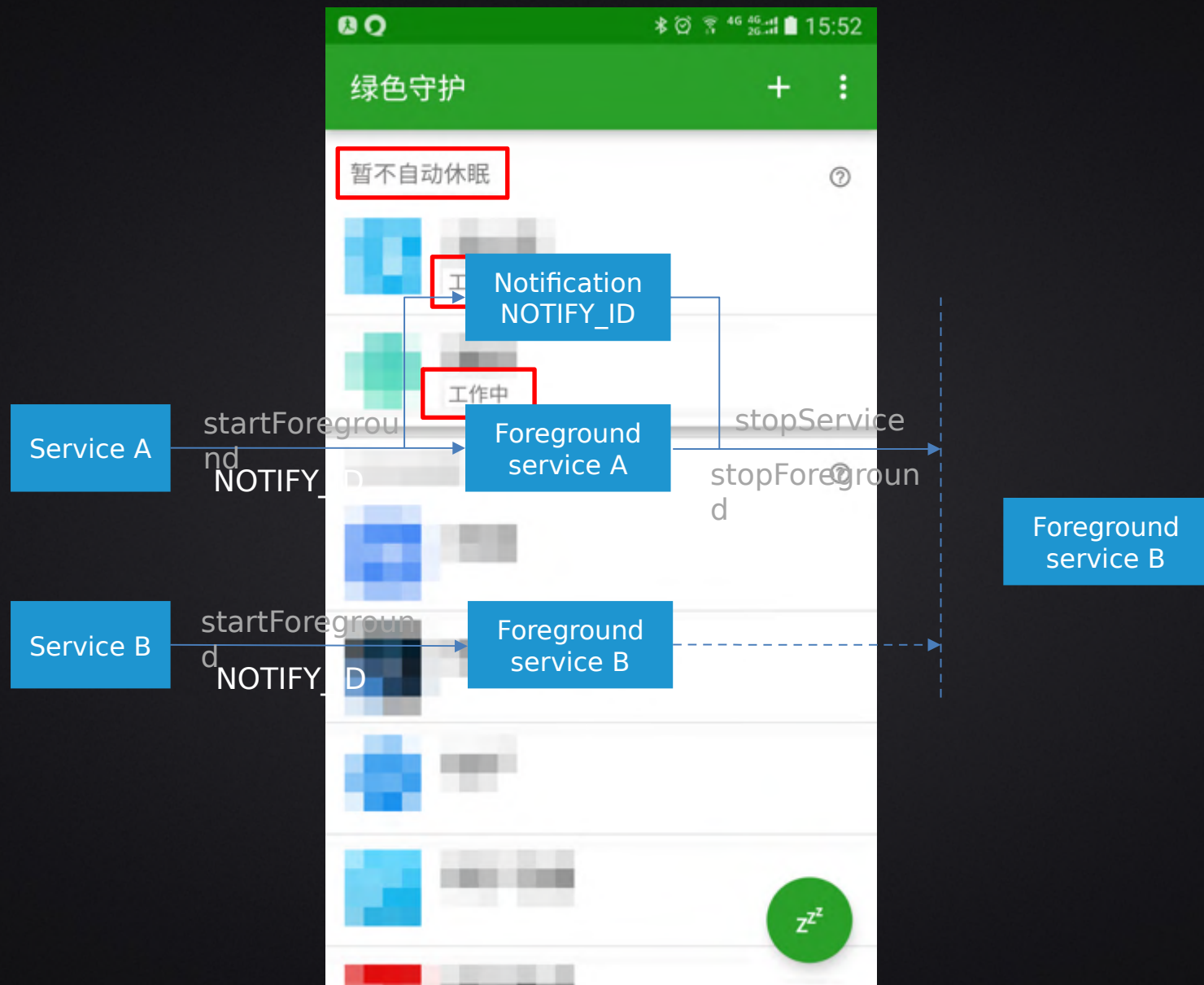
- Sticky Service
 - Alarm
 - Receiver
 - JobScheduler



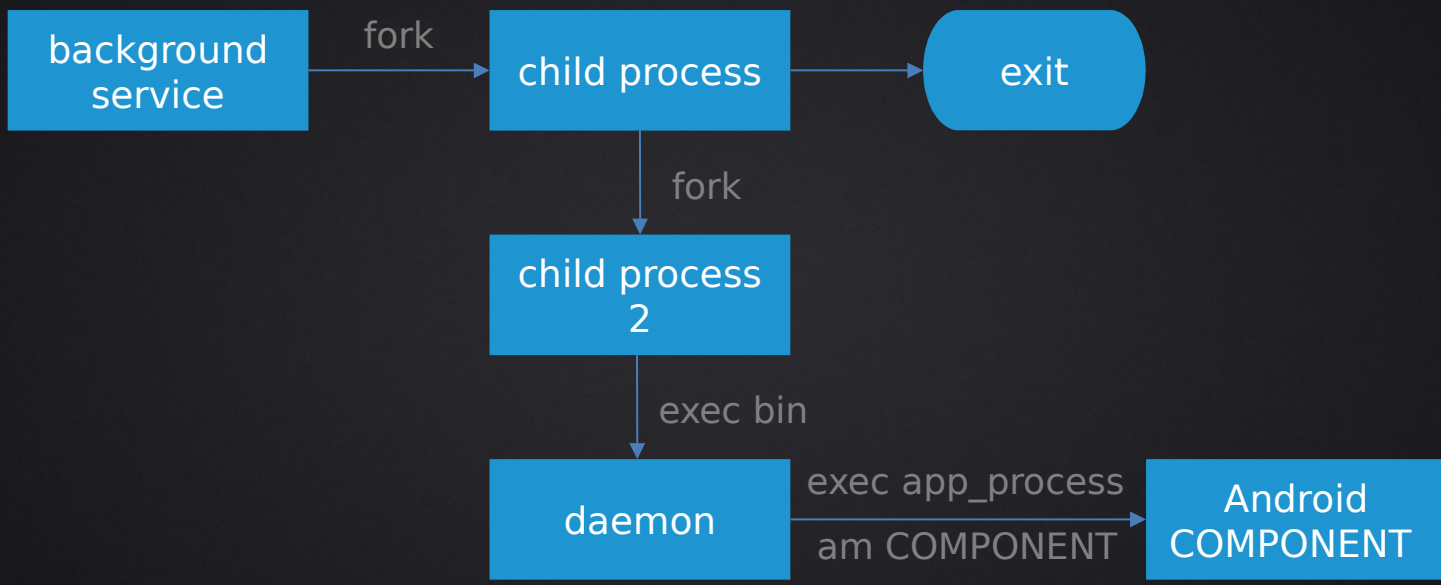


```
t@generic_x86_64:/ # procrank |grep nim
090 1615180K 85576K 51435K 41636K com.netease.nim.demo
110 1573632K 41492K 11505K 6616K com.netease.nim.demo:
```







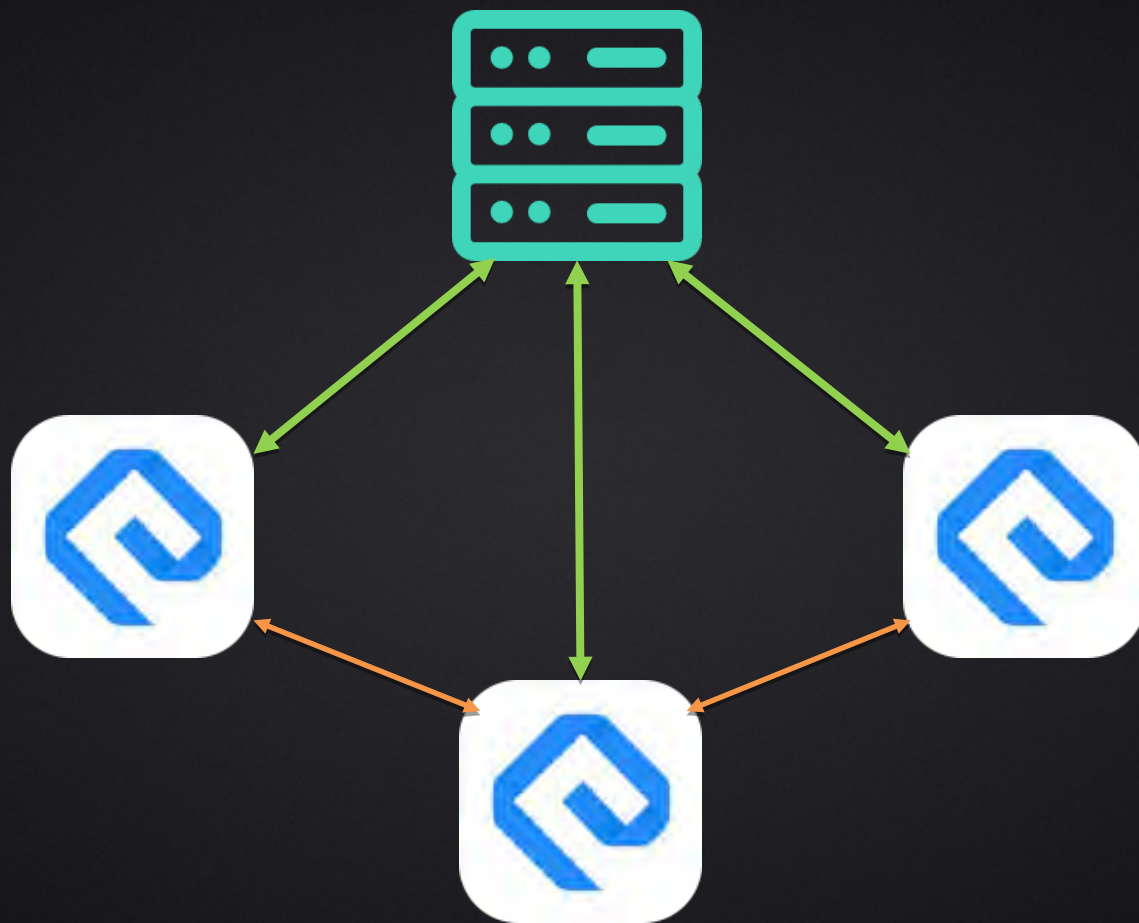


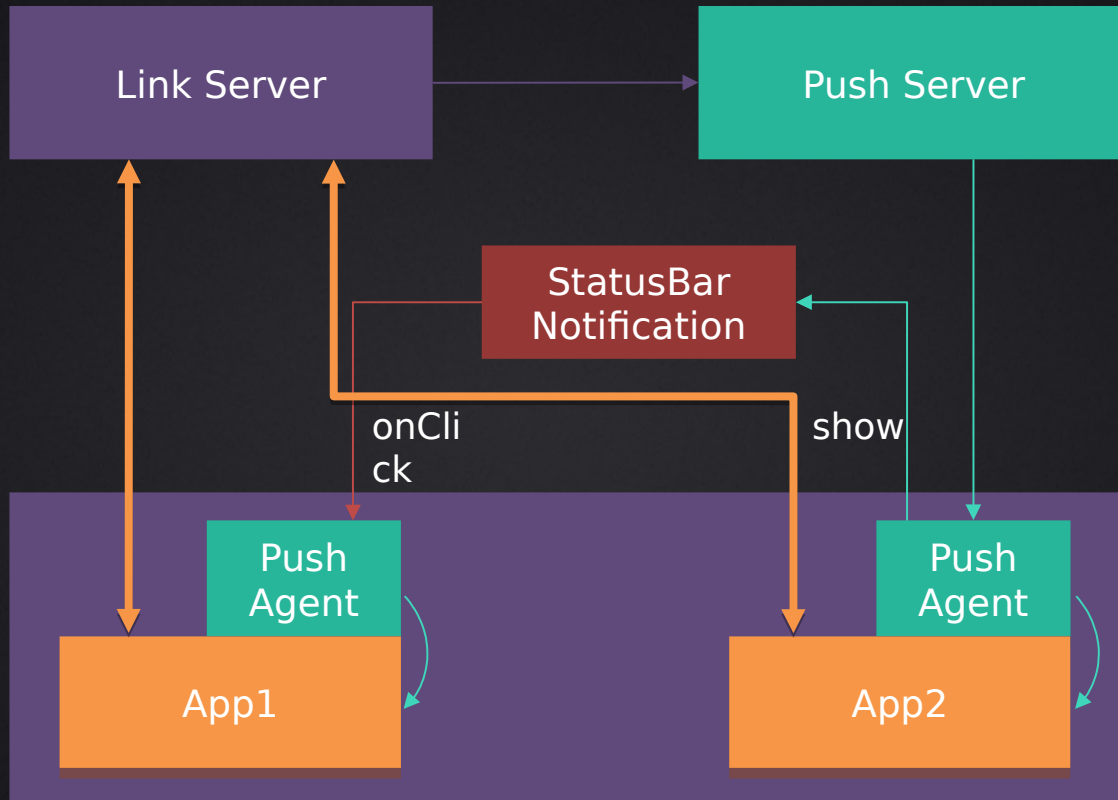


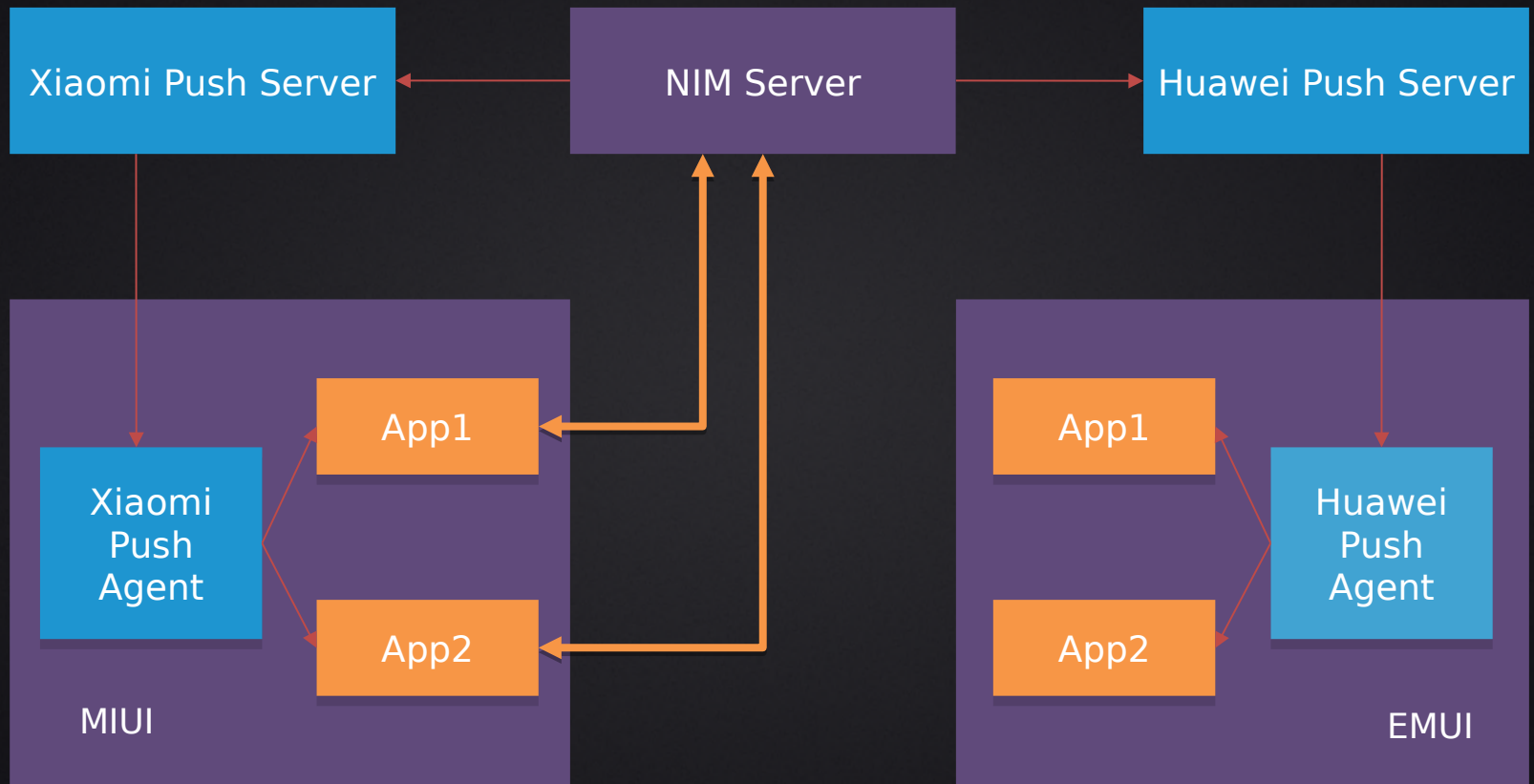


MIUI

EMUI







还要活着



慢



断



贵

TCP

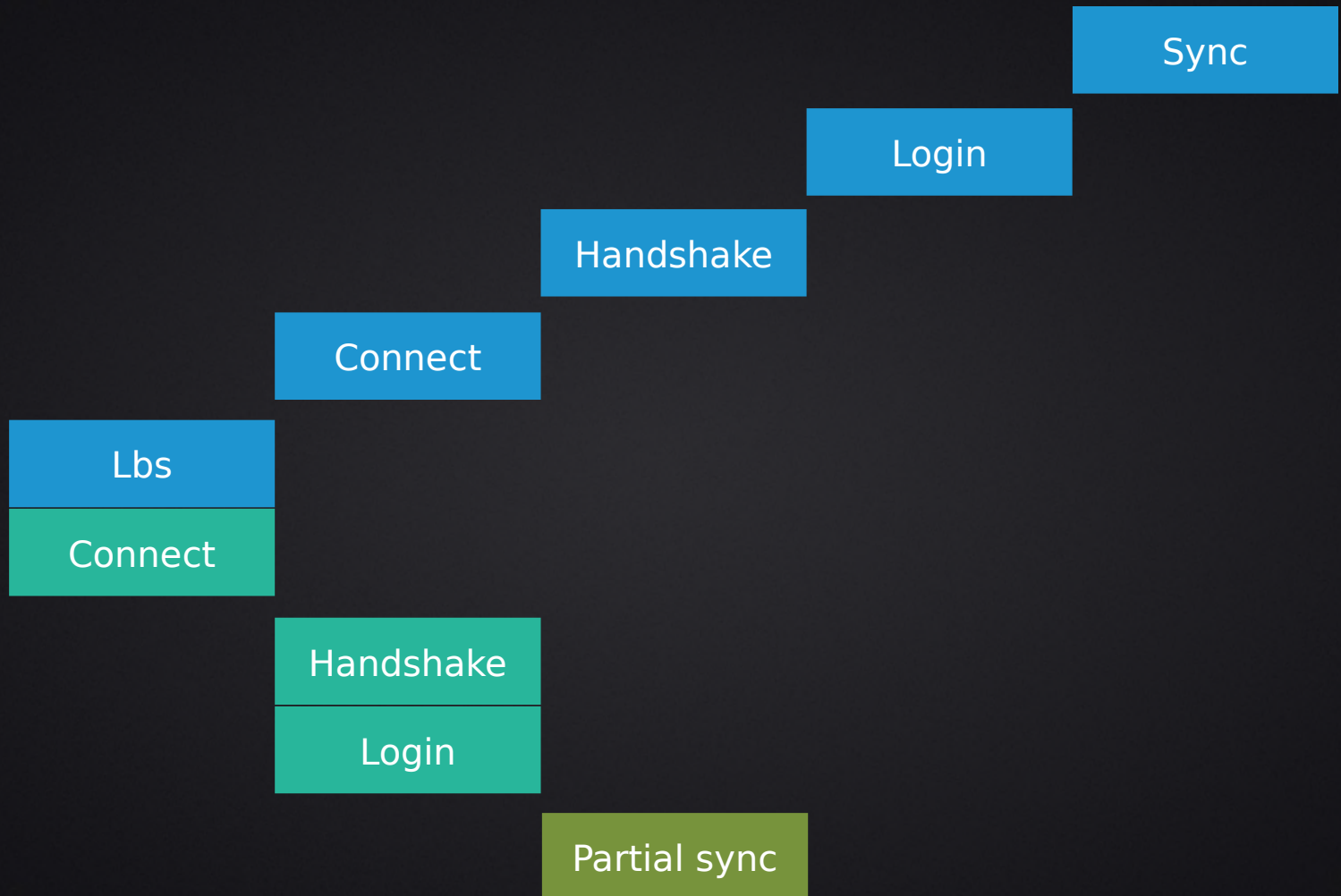
UDP

HTTP

```
<iq type='get' from='jezhee@netease.im/contact'>  
  <query xmlns='jabber:iq:roster' />  
</iq>
```

```
SUBSCRIBE sip:jezhee-contact@netease.im SIP/2.0  
Via :SIP/2.0/UDP netease.im; branch=z9hG4bKwYb6QREiCL  
Max-Forwards:70  
To: <sip:jezhee-contact@netease.im>  
From:<sip:jezhee@netease.im>; tag=ie4hbb8t  
Call-ID:cdB34qLToC@netease.im  
CSeq: 1SUBSCRIBE  
Contact:<sip:netease.im>  
Event:presence  
Expires:3600  
Supported:eventlist  
Accept:application/pidf+xml  
Accept:application/rlmi+xml
```

```
3A0D4DCB1E9DFFBA39D21EAC6ECCA4D2DDCB51AB
```





周江华小号

请求视频聊天...

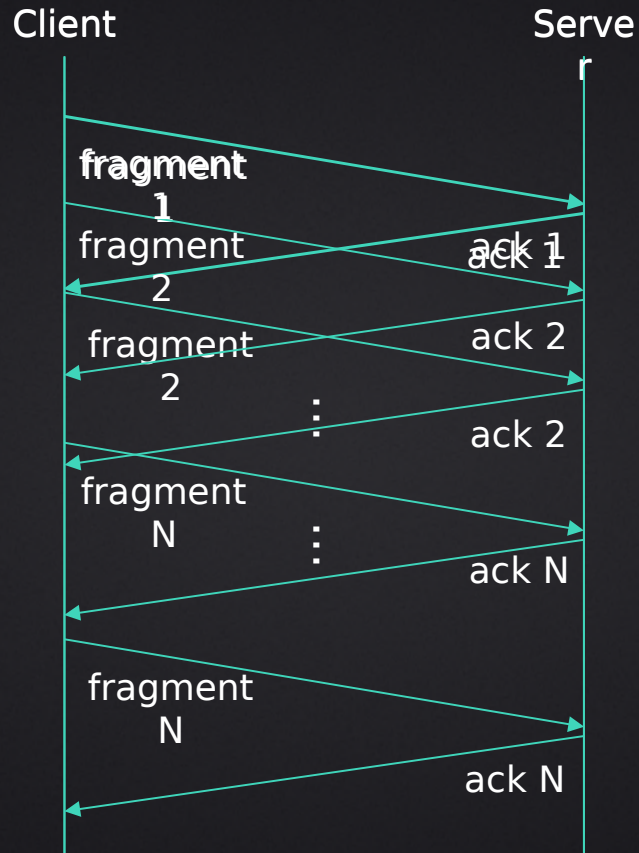
拒绝

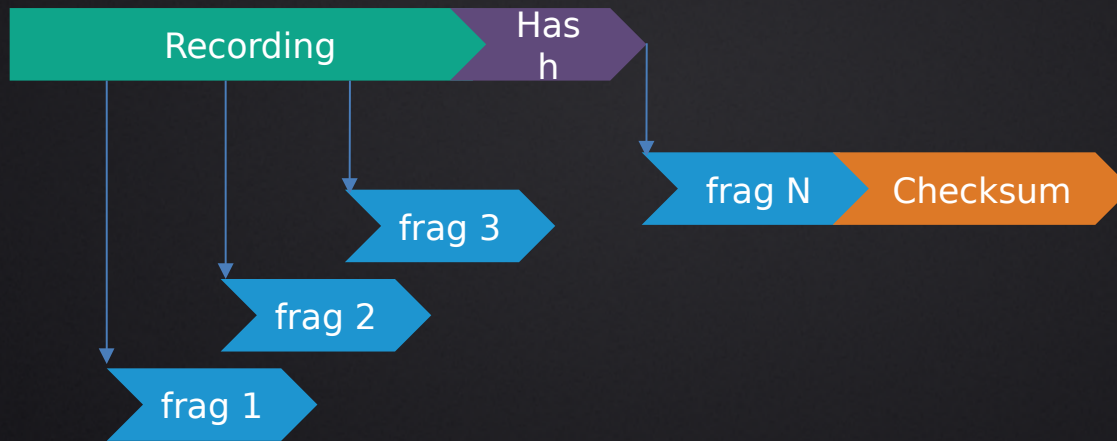
接听



- FEC
- 自适应初始化包频
- 动态包频和码率调整
- 数据缓冲 Buffer
- 音频 PLC 丢包补偿
- Temporal Scalability 视频编码方式
- 视频关键帧多重保障

- 断点续传
- 图片预加载
- pipeline
- 边录边传





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2016

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谢谢

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