



饿了么移动性能可视化之路





成为软件技术专家 从为软件技术专家 全球软件开发大会的必经之路

[北京站] 2018

2018年4月20-22日 北京·国际会议中心

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全球人工智能与机器学习技术大会

助力人工智能落地

2018.1.13 - 1.14 北京国际会议中心

SPEAKER INTRODUCE



胡彪 (Henry Hu)

饿了么移动技术部总监

胡彪,饿了么移动技术负责人,移动技术总监。负责饿了么移动架构,移动基础设施建设,新技术预研与实践;移动安全,移动应用开发等等。09年投身移动互联网,曾先后就职于新蛋、盛大、腾讯等国内外知名企业。始终致力于低耦合,高内聚,高可用的移动架构。

- 移动应用性能关注点
- 移动应用性能痛点
- 什么是移动应用性能可视化
- 饿了么移动性能可视化现状
- 技术挑战
- 未来规划





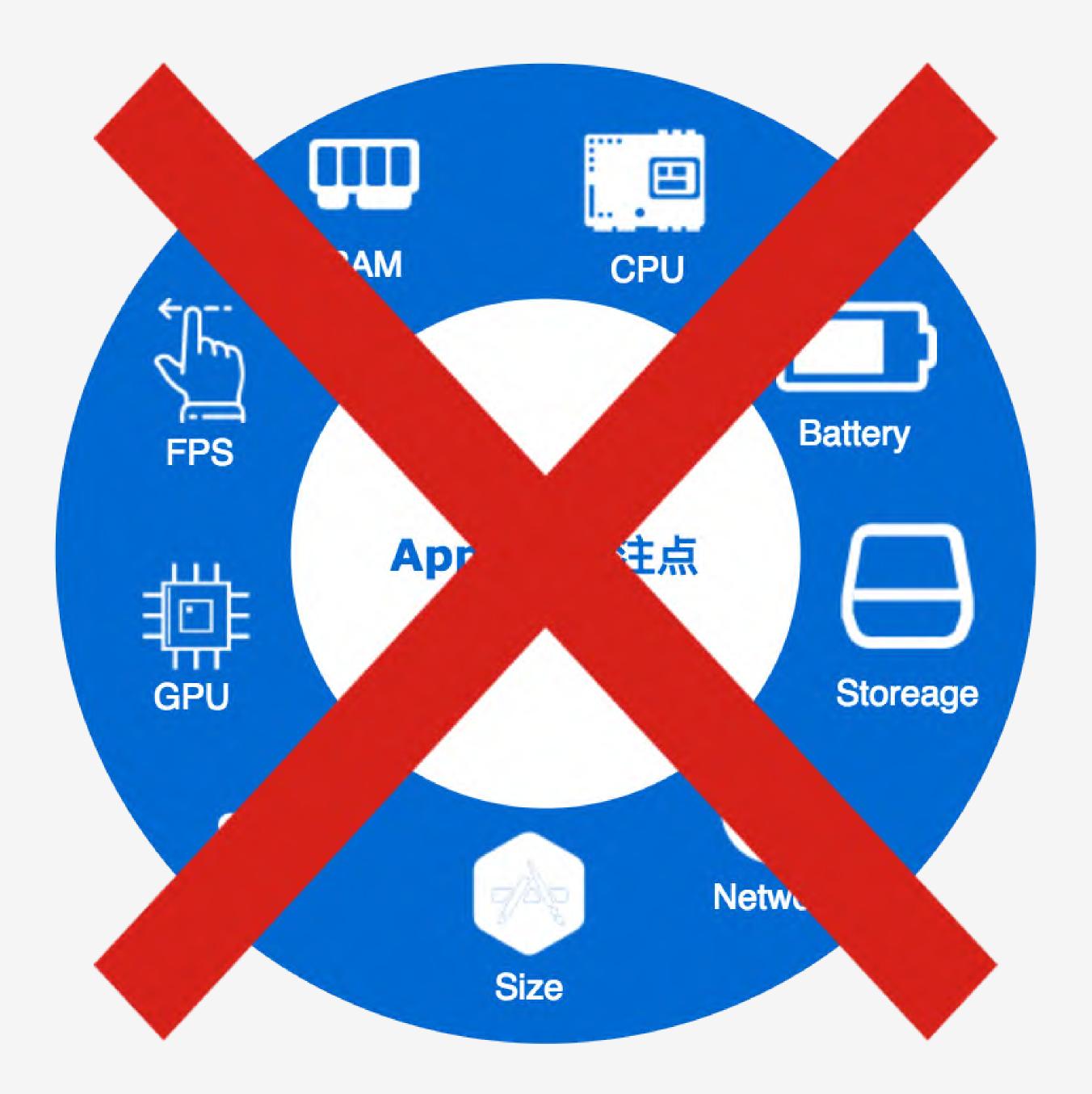
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移动应用性能痛点











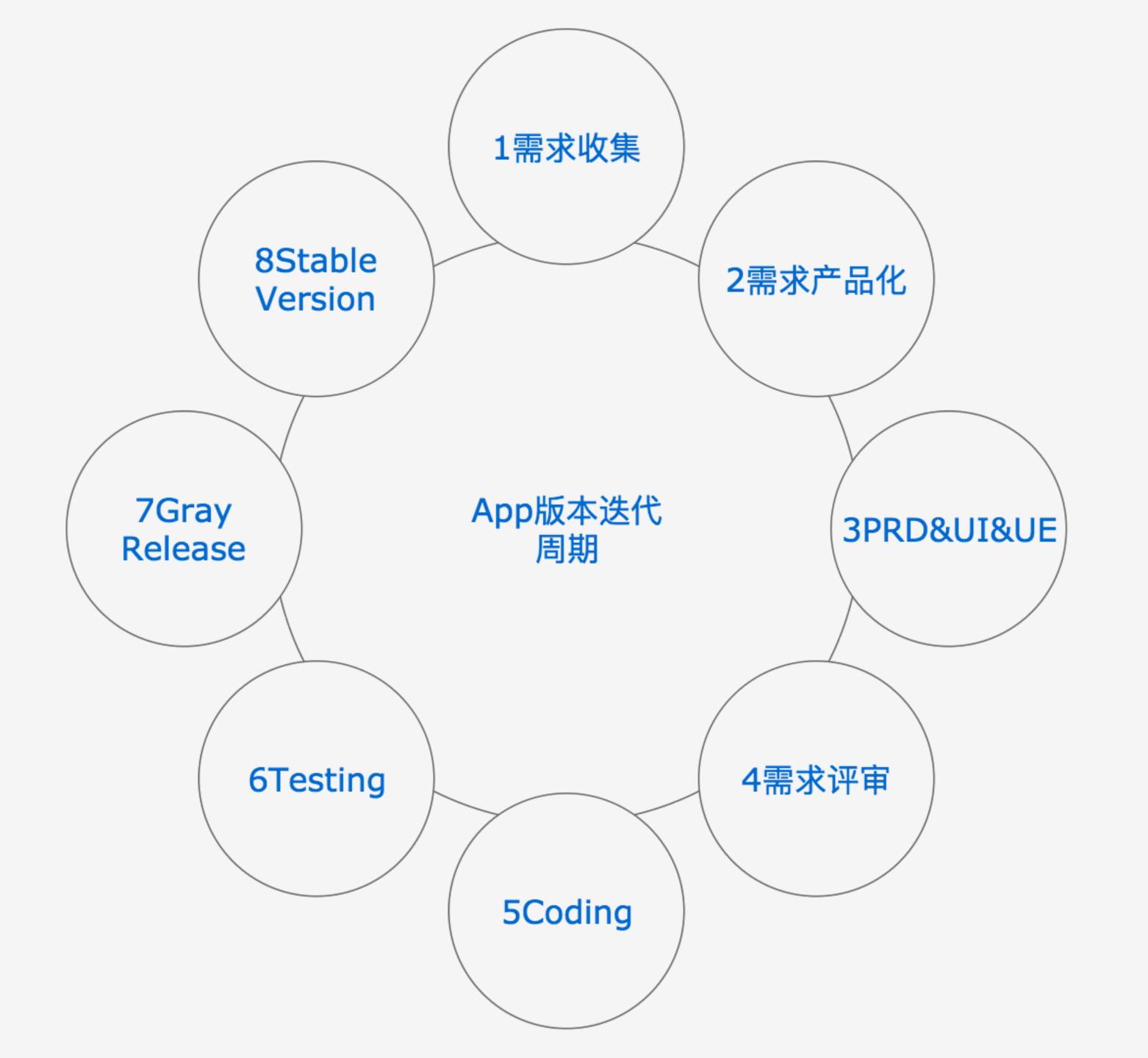
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代码分析

```
Pods/BlocksKit/BlocksKit/Core/NSOrderedSet+BlocksKit.m:14: error: DEAD STORE
 The value written to & objc anonymous block NSOrderedSet bk each: 1 is never used.
 12.
               NSParameterAssert(block != nil);
 13.
 14. >
                [self enumerateObjectsUsingBlock:^(id obj, NSUInteger idx, BOOL *stop) {
 15.
                       block(obj);
 16.
               11;
Pods/BlocksKit/BlocksKit/Core/NSOrderedSet+BlocksKit.m:14: error: DEAD STORE
 The value written to &obj is never used.
 12.
               NSParameterAssert(block != nil);
 13.
 14. >
                [self enumerateObjectsUsingBlock:^(id obj, NSUInteger idx, BOOL *stop) {
 15.
                       block(obj);
 16.
               11;
Pods/TacoSDK/TacoSDK/Core/TacoContext.m:13: error: DEAD STORE
 The value written to & objc anonymous block TacoContext sharedInstance
                                                                              1 is never used.
 11.
            static dispatch once t onceToekn;
 12.
           static TacoContext *sharedInstance;
           dispatch once(&onceToekn, ^{
 13. >
 14.
                sharedInstance = [[TacoContext alloc] init];
 15.
           1);
Pods/BlocksKit/BlocksKit/UIKit/UIView+BlocksKit.m:22: error: DEAD STORE
 The value written to & objc_anonymous_block_UIView_bk_whenTouches:tapped:handler:
 20.
               gesture.numberOfTapsRequired = numberOfTaps;
 21.
                [self.gestureRecognizers enumerateObjectsUsingBlock: (id obj, NSUInteger idx, BOOL *stop)
 22. >
 23.
                       if (![obj isKindOfClass:[UITapGestureRecognizer class]]) return;
 24.
Pods/NVMAsyncDisplayKit/NVMAsyncDisplayKit/Classes/NVMTransactionGroup.m:13: error: DEAD STORE
 The value written to &activities is never used.
       static inline void NVMRunLoopAddObserver(CFRunLoopMode mode, CFRunLoopObserverCallBack callout) {
         CFRunLoopRef runLoop = CFRunLoopGetMain();
 12.
 13. >
         CFOptionFlags activities = (kCFRunLoopBeforeWaiting
 14.
                                     kCFRunLoopExit);
 15.
Pods/NVMShoppingModule/NVMShoppingModule/Classes/Common/utility/NVMShoppingCommonDefinitions.h:14: error: DEAD_STORE
 The value written to & objc anonymous block ESPScreenScale 5 is never used.
         static CGFloat scale = 0;
 12.
         static dispatch once t onceToken;
 13.
         dispatch_once(&onceToken, ^{
 14. >
           scale = [UIScreen mainScreen].scale;
 16.
```

```
app/src/main/java/me/ele/coffee/utils/ImageUtils.java:266: error: RESOURCE LEAK
 resource of type 'java.io.FileOutputStream' acquired by call to 'FileOutputStream(...)' at line
                     os = new FileOutputStream(destFile);
 265.
                     if (bitmap == null) {
 266. >
                         return "";
 267.
 268.
                     if (!bitmap.isRecycled())
app/src/main/java/me/ele/coffee/utils/ImageUtils.java:271: error: RESOURCE_LEAK
 resource of type 'java.io.FileOutputStream' acquired by call to 'FileOutputStream(...)' at line
 269.
                         newbitmap = bitmap.copy(bitmap.getConfig(), false);
 270.
                     } else {
 271. >
                         throw new RuntimeException("OOM");
 272.
 273.
                     newbitmap.compress(Bitmap.CompressFormat.JPEG, quality, os);
app/src/main/java/me/ele/coffee/utils/RSAUtils.java:277: error: RESOURCE_LEAK
 resource of type 'java.io.InputStreamReader' acquired by call to 'new()' at line 267 is not rele
**Note**: potential exception at line 270
 275.
 276.
 277. >
                 return sb.toString();
 278.
 279.
app/src/main/java/me/ele/coffee/widget/GridSupplyFilterWidget.java:271: error: NULL_DEREFERENCE
 object returned by `GridSupplyFilterWidget.shopTypeTags.getSingleSelected()` could be null and i
            public List<DefBaseItem> getSelectItemsForShow() {
 269.
                 List<DefBaseItem> list = new ArrayList<>();
 270.
 271. >
                 addItemExpectAll(list, (DefBaseItem) shopTypeTags.getSingleSelected());
                 list.add((DefBaseItem) selectTime.getSingleSelected());
 272.
                 addItemExpectAll(list, (DefBaseItem) selectVaild.getSingleSelected());
 273.
app/src/main/java/me/ele/coffee/widget/contact/SimpleAdapter.java:309: error: NULL DEREFERENCE
 object 'key' last assigned on line 307 could be null and is dereferenced at line 309.
                     Item key = sectionsMap.get(text);
 307.
                     values.add(key);
 308.
                     key.sectionPosition = sectionPosition;
 309. >
                     key.listPosition = listPosition++;
 310.
                     onSectionAdded(key, sectionPosition);
 311.
Summary of the reports
                NULL DEREFERENCE: 20
                    CONTEXT LEAK: 19
                  RESOURCE_LEAK: 9
        THREAD SAFETY VIOLATION: 3
 CHECKERS FRAGMENT RETAINS VIEW: 2
```





资源分析

概况

应用详情

Name: 饿了么商家版iOS

Build Id: #104945

App Id: me.ele.napos

Branch: master

Tag:无

Commit: afc14022ad17a4d0e62f32b1d57638cd1e062c4b

资源包解析

大小: 75.34MB

资源分布: 查看

项目解析

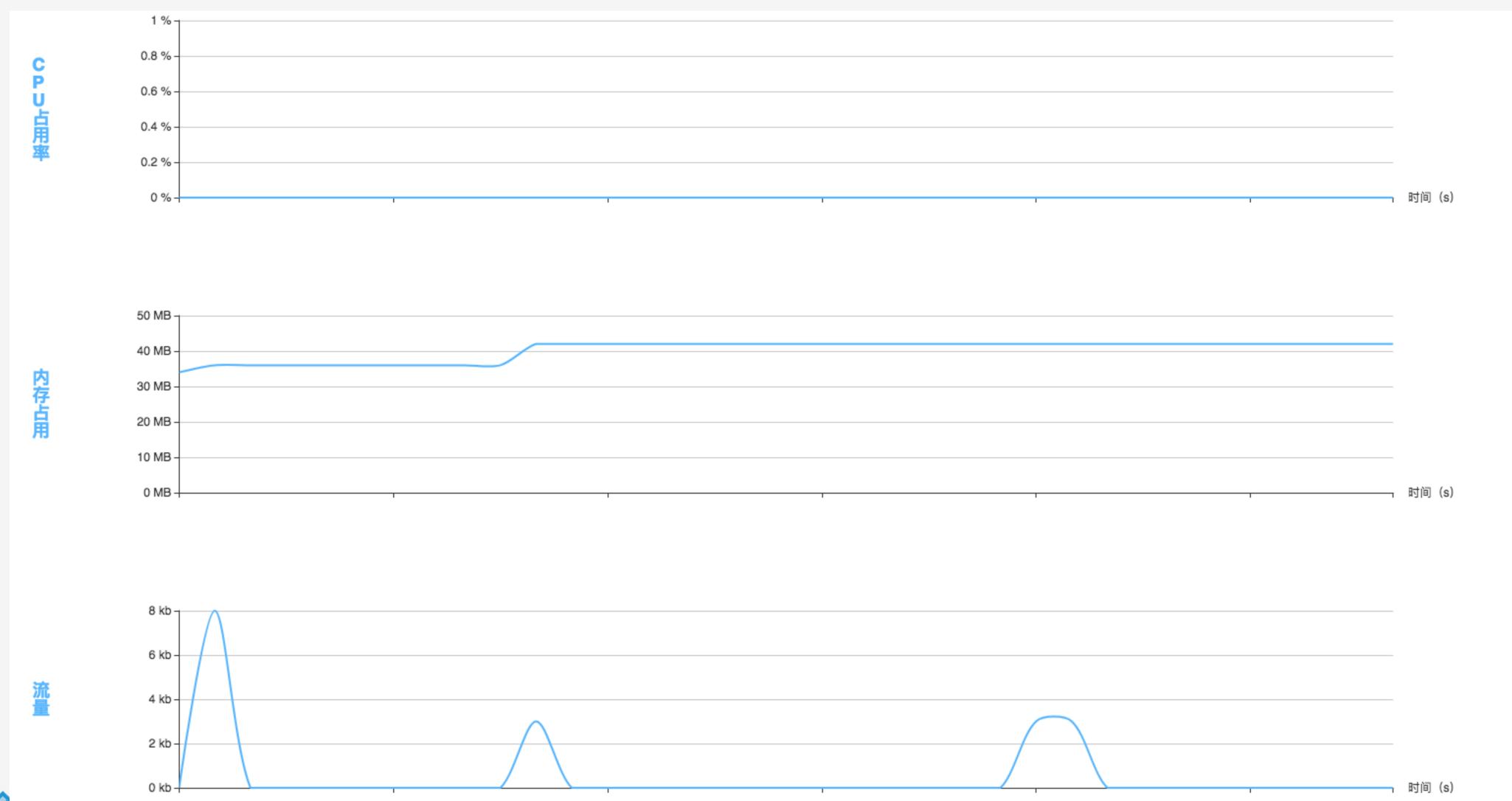
大资源文件: 17 个

未引用文件: 2个

未引用资源: 0 个

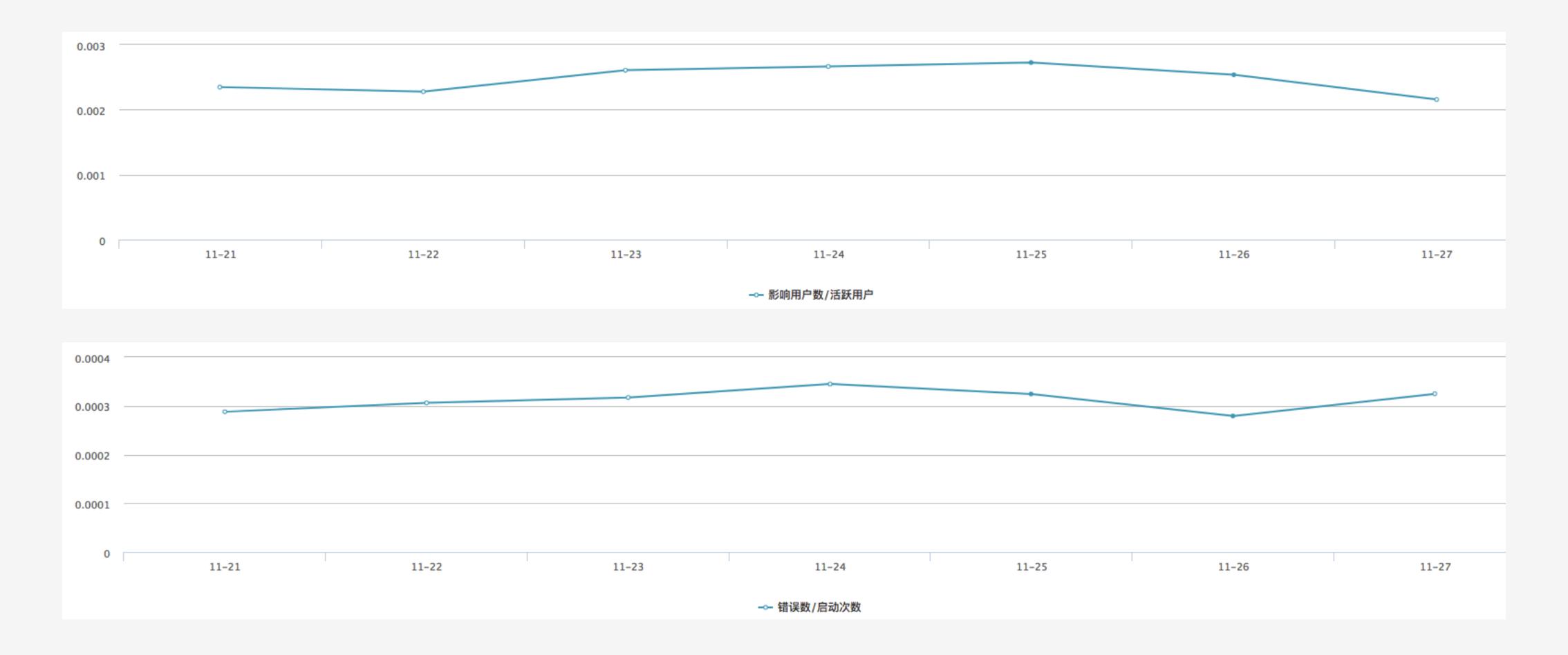
资源分布	大资源文件	未引用文件	未引用资源
Extname	•		
binary			
.car			
.caf			
.png			
.jsbundle	•		
.json			

性能分析



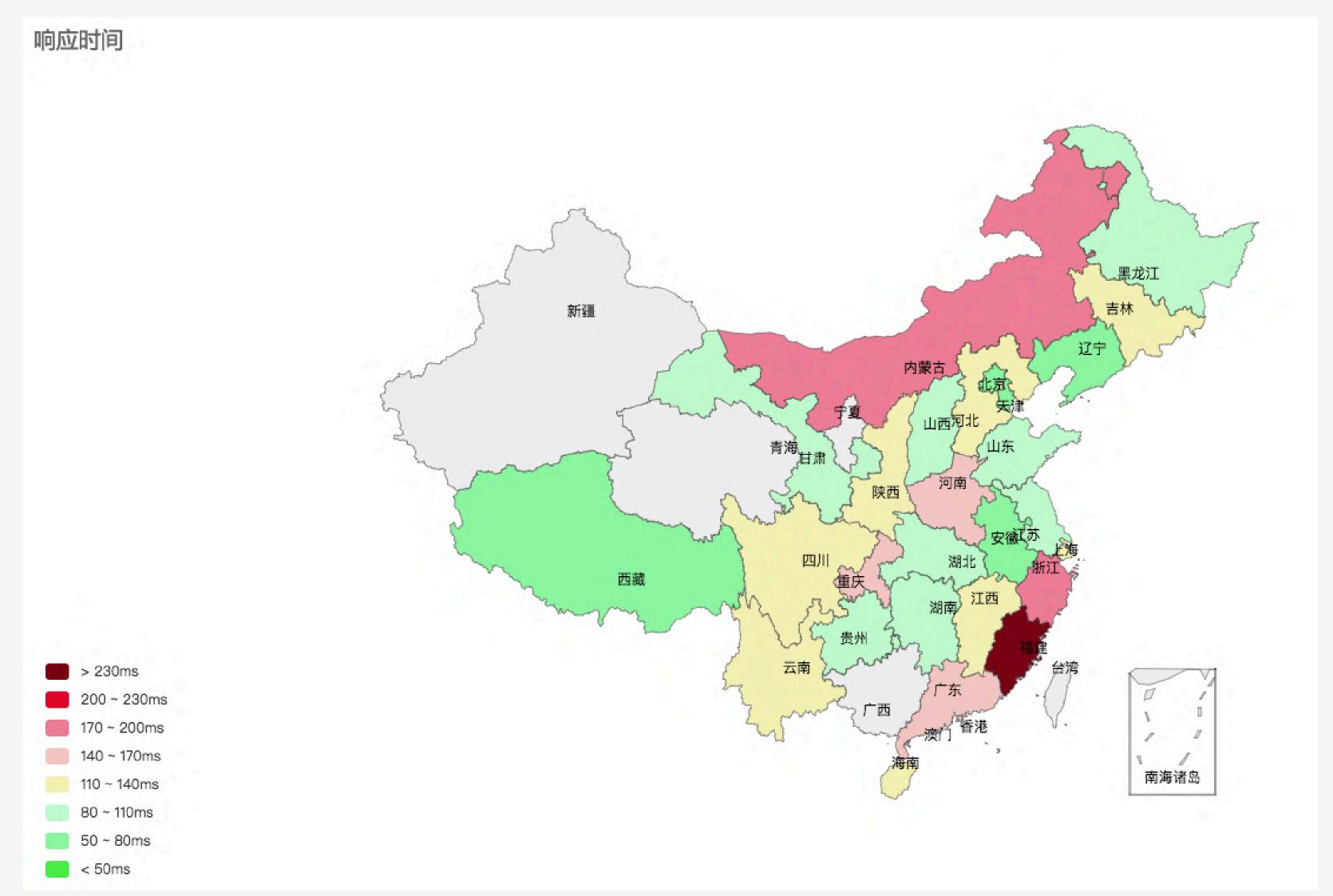


闪退监控





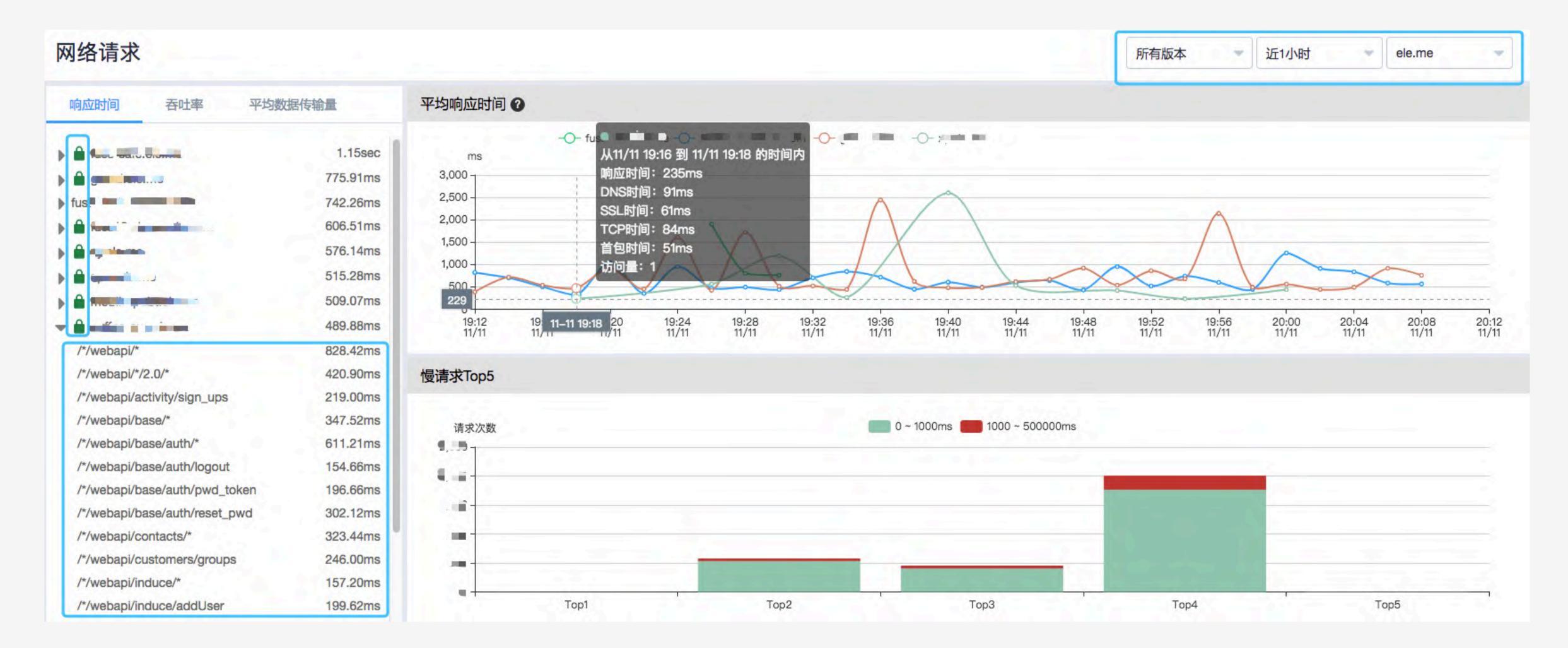
请求地图





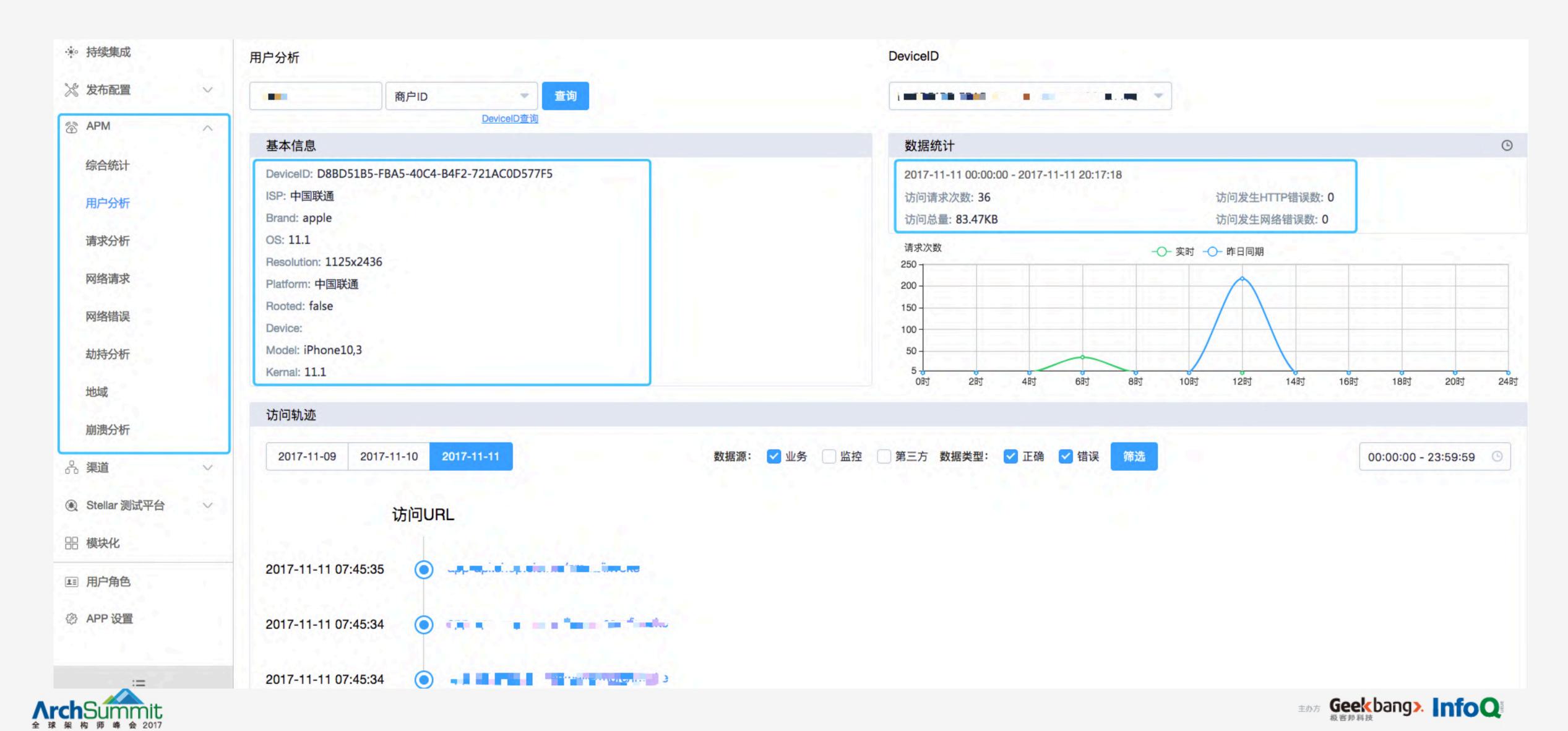


请求分析





用户分析



秒级实时Dashboard



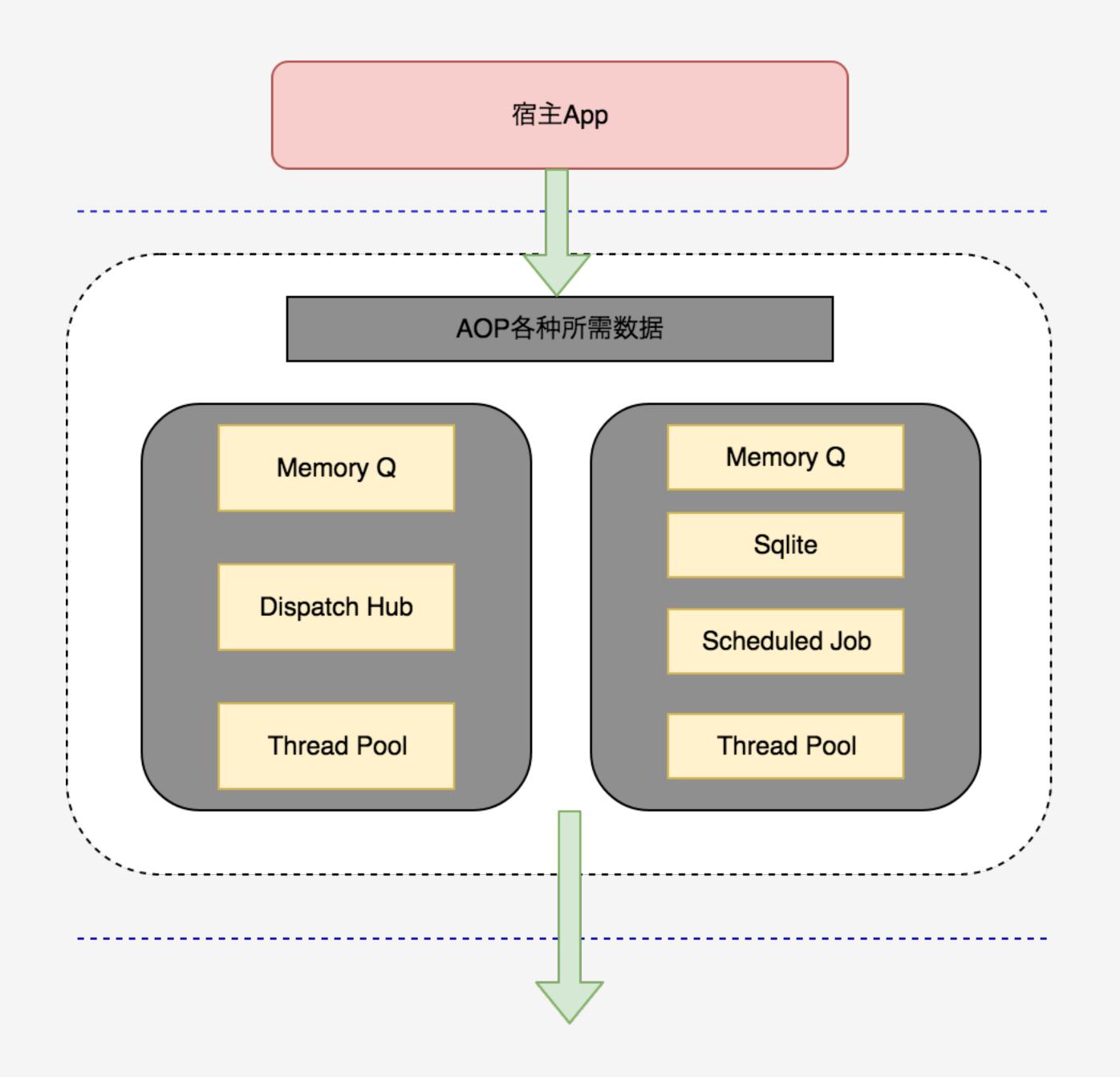


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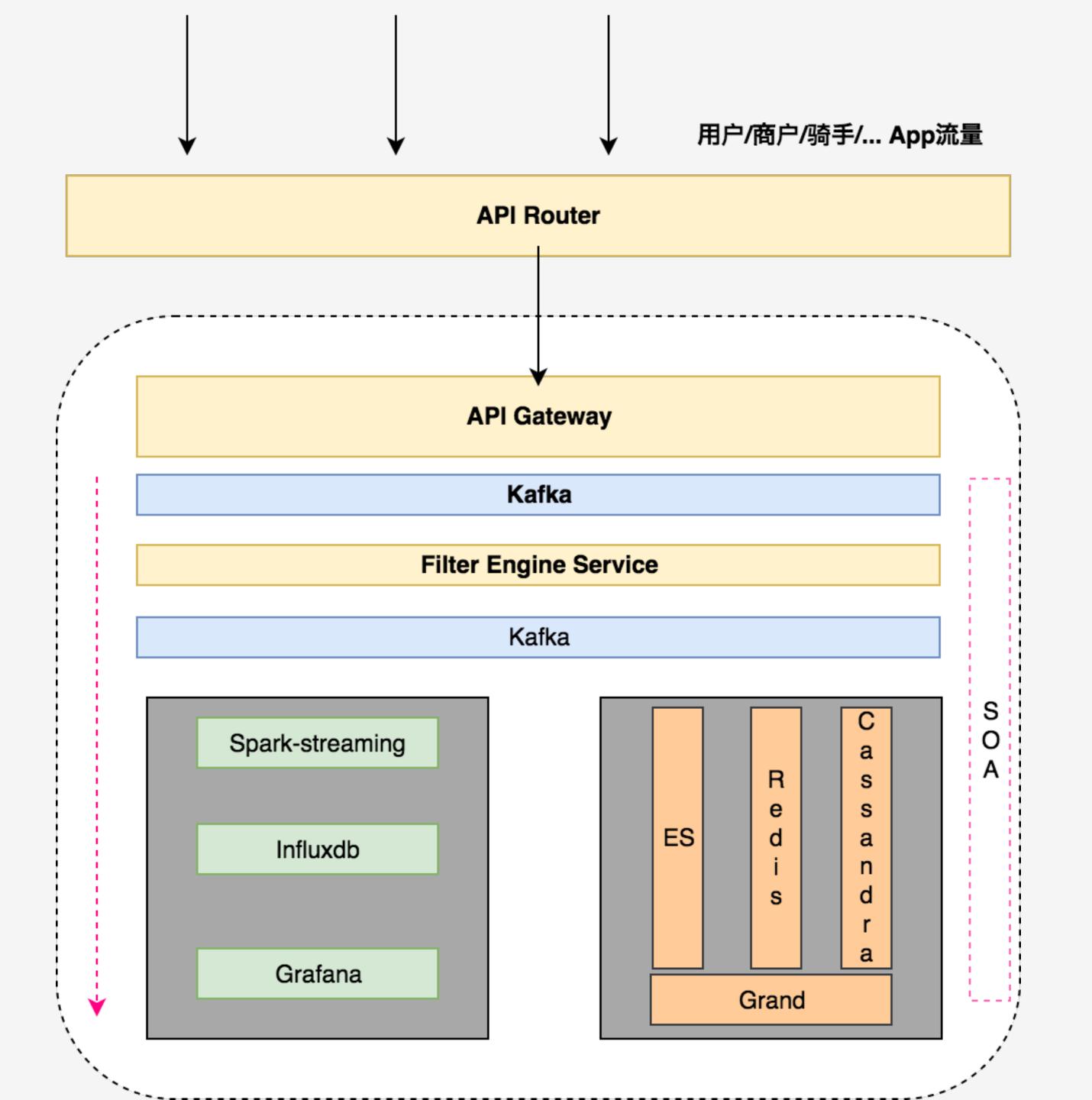
技术挑战

- 高并发
- 海量数据
- 如何优雅降级
- 实时监控
- 告警及时准确

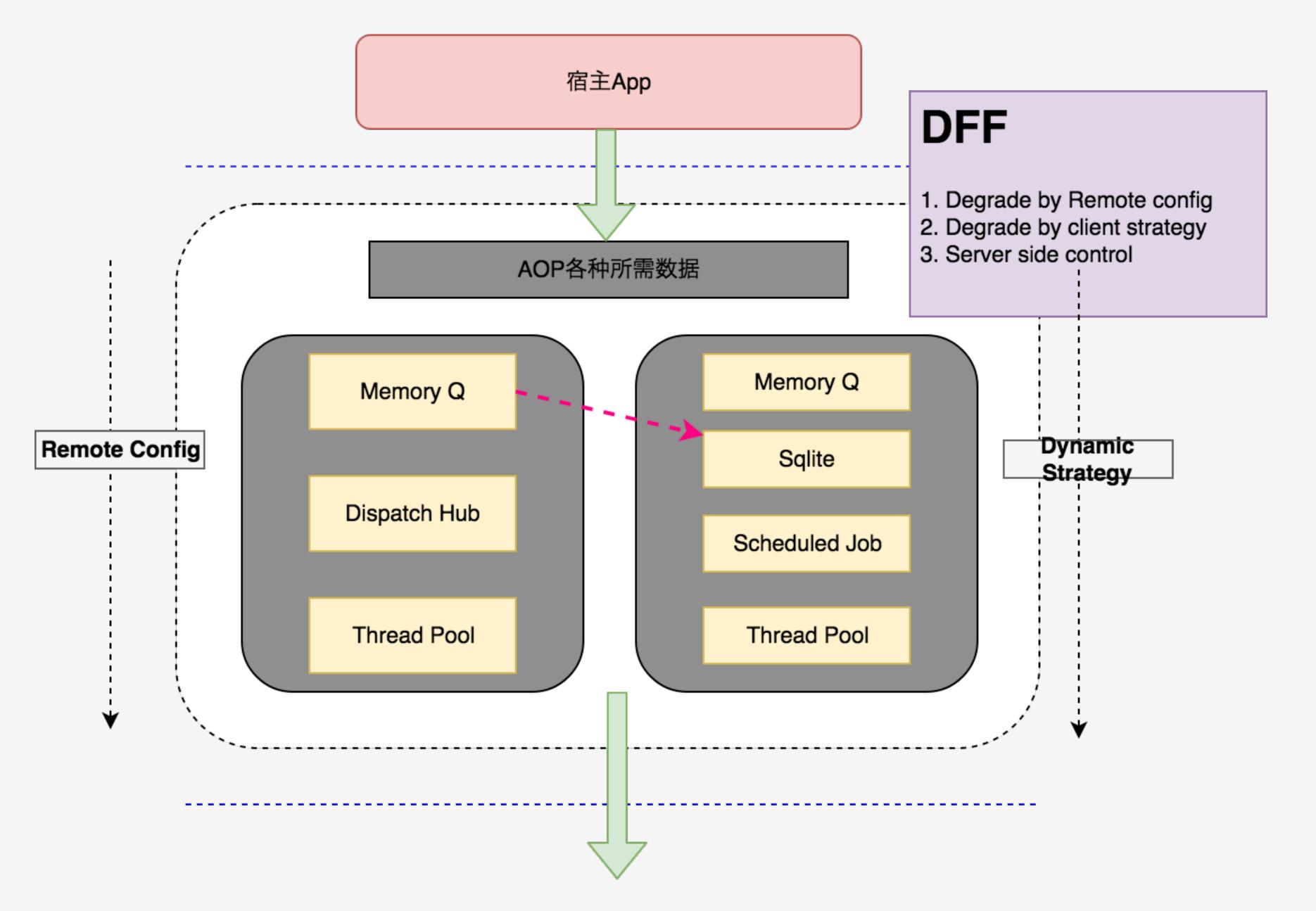




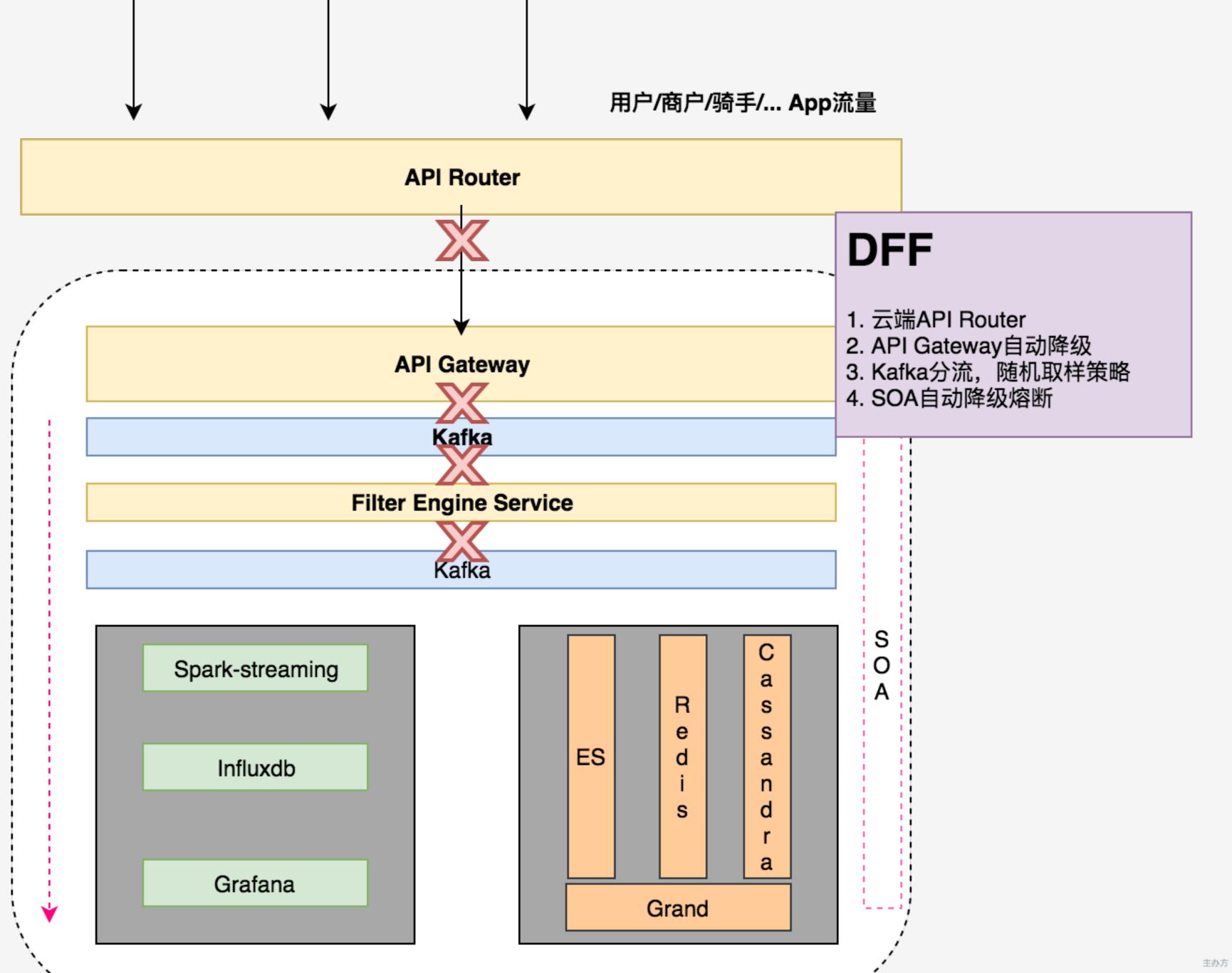














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未来规划

- 增加边缘计算能力
- 形成一站式服务闭环
- 监控自动化
- 数据精准化
- 结合ML



THANKYOU

如有需求,欢迎至[讲师交流会议室]与我们的讲师进一步交流

