



2015 移动开发者大会  
Mobile Developer Conference China 2015

# Android远程问题诊断和监测

## 董霖

- 2013 个推  
Android/iOS 个推SDK
- 2011 个信  
Symbian/Android/iOS App
- 2009 通讯录  
Symbian/WM/Android App

## 个推-移动应用消息推送解决方案





典型客户：





合适的时间



定时推送



合适的地点



地理围栏



合适的场景



智能场景  
标签



合适的内容



有价值信息



合适的人



智能画像  
标签

## 基于地理位置数据的用户画像 Location Based User Profiling

### 居住地属性

Where constantly?

用户住在哪里/工作地点

XX城市

XX街区



### 行为规律特征

Where regularly?

用户经常/最近去哪里  
学生、车友、商务、时尚、白领、美食、旅游、居家、新人婚庆



### 实时位置场景

Where right now?

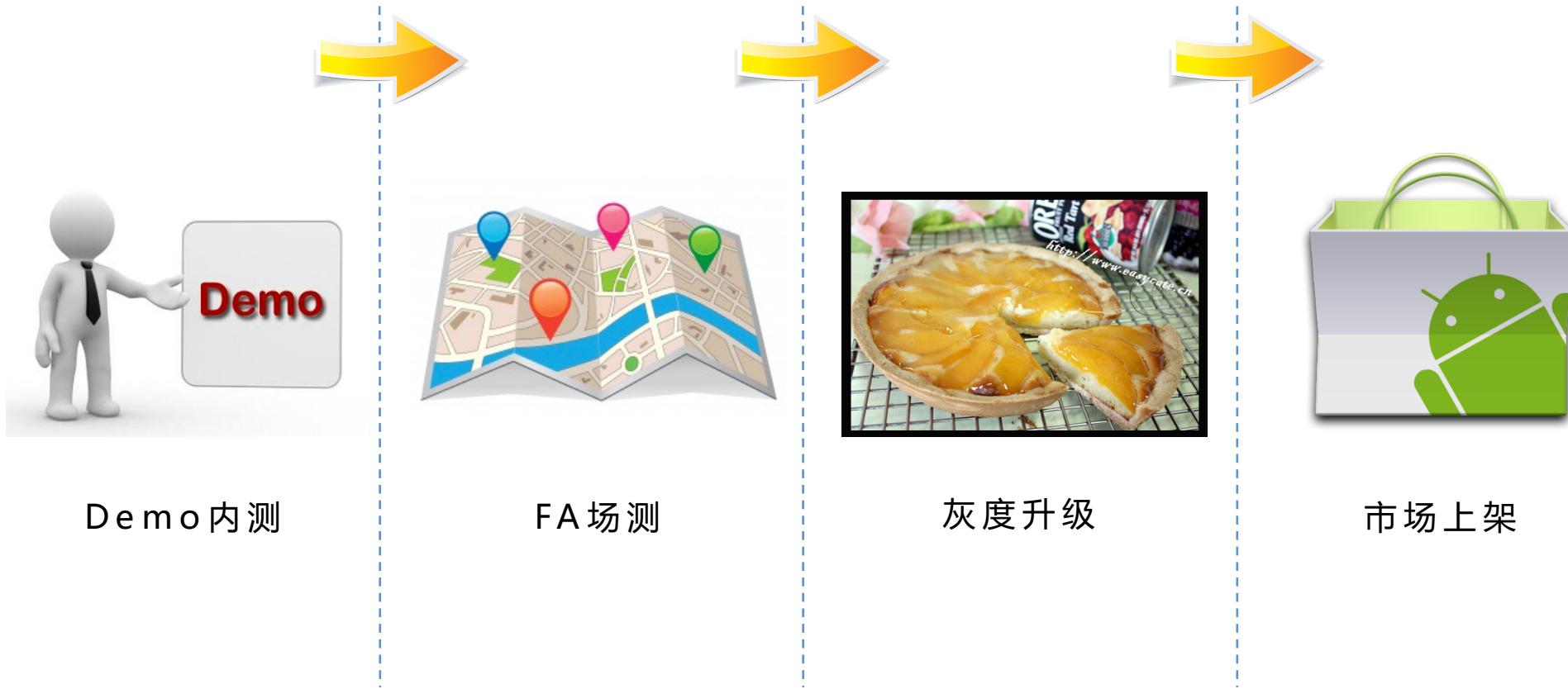
用户现在在哪里  
家里、商场、机场车站、景点、汽车4S店





## Murphy's Law

- 如果有两种或两种以上的方式去做某件事情，而其中一种选择方式将导致灾难，则必定有人会做出这种选择。



All roads lead to Rome



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Rome

Request

Of

Mobile

Exception

## 我为什么要手机



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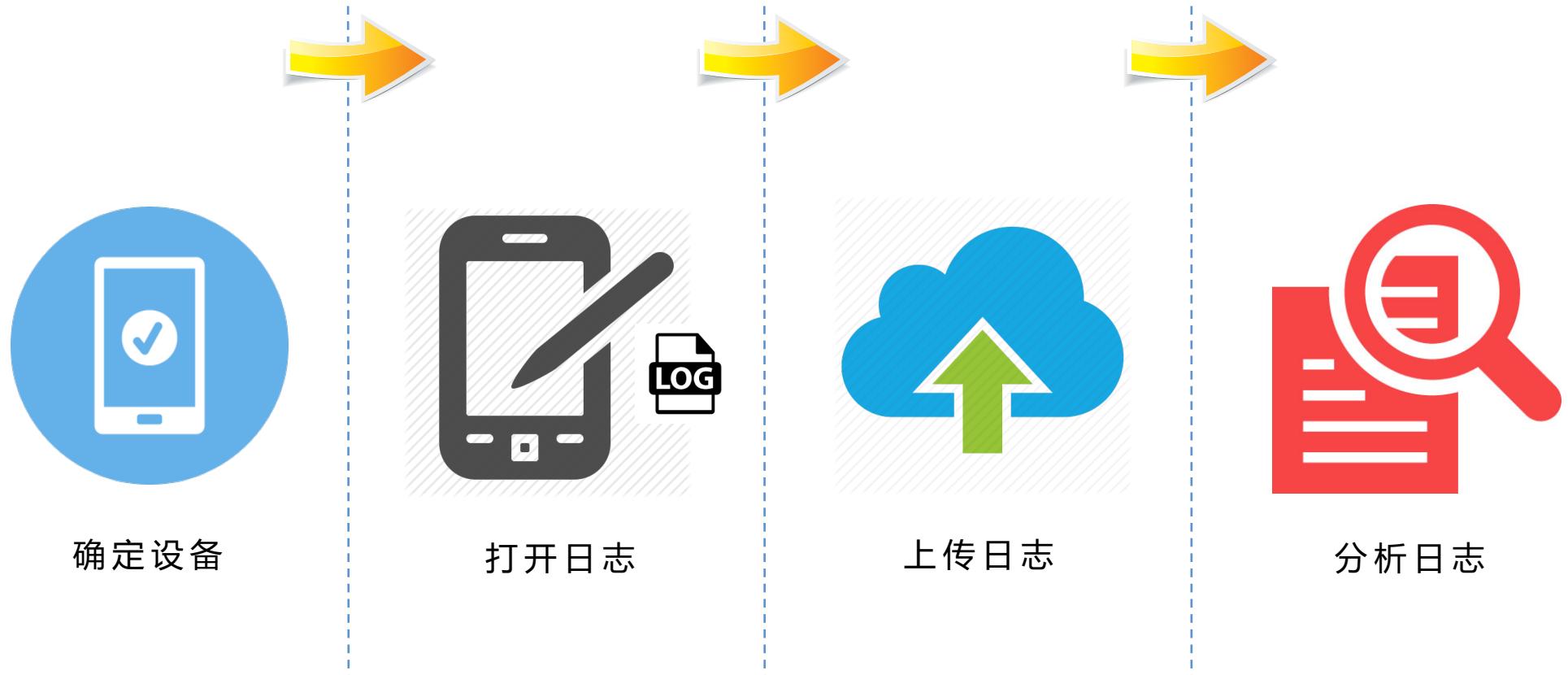
- 开log，看log
- 看屏幕，截屏

现有工具

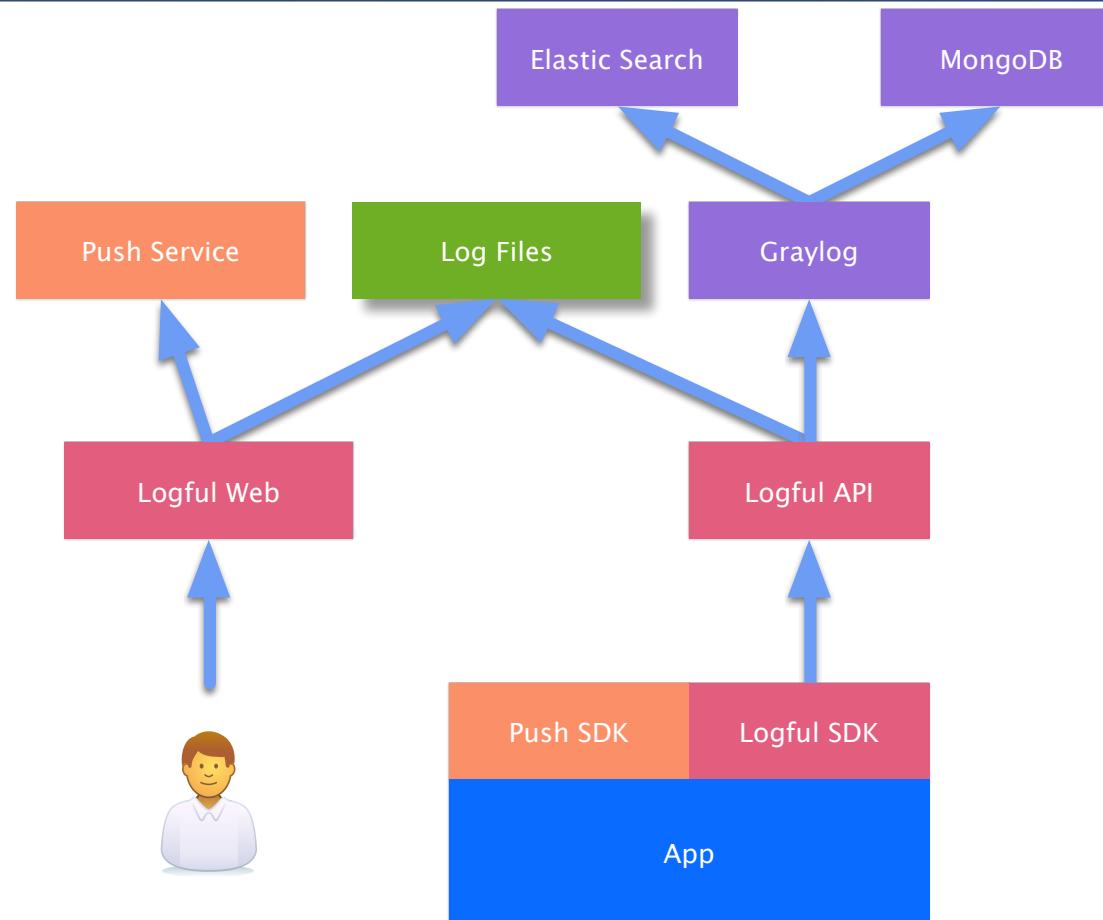


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- Logful
- Full of Log



## • 初始化

```
@LogProperties(defaultLogger = "logger",
    defaultMsgLayout = "t,type,%s|r,result,%n|c,counts,%n")
public class MainApplication extends Application {

    @Override
    public void onCreate() {
        super.onCreate();

        LoggerConfigurator config = LoggerConfigurator.build();
        config.setCaughtException(false);
        LoggerFactory.init(this, config);
    }
}
```

- 日志记录

```
LoggerFactory.turnOnLog();
LoggerFactory.verbose(TAG, "http login request sent.");
LoggerFactory.debug(TAG, "http|login|failed");
LoggerFactory.error(TAG, "t:post_error|r:80001|c:3");
```

```
defaultMsgLayout = "t,type,%s|r,result,%n|c,counts,%n")
```

## 日志 Web 工具

- Dashboard
- UID 工具
- 日志工具
- 管理工具

# Dashboard

### 状态详细信息

Status	ok
Graylog Connected	connected
Server Version	1.0.0

### 资源监控

内存占用

60.53 MB of 354 MB

线程占用

0 of 100

队列信息

0 of 2000

## 日志 Web 工具

 Dashboard

 UID 工具

 日志工具

 管理工具

# 管理工具

灰度控制

Level

60%

# Demo



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app\_id:com.getui.logsample

The screenshot shows the Graylog web interface with the following details:

- Search Bar:** Shows the query `app_id:com.getui.logsample`.
- Search Result Panel:** Displays 7 messages found in 2 ms across 1 index.
- Fields Panel:** Shows a list of fields with checkboxes:
  - alias
  - app\_id
  - col\_counts
  - col\_result
  - col\_type
  - col1
  - col2
  - col3
  - level
  - log\_level
  - log\_name
  - log\_timestamp
  - message
- Histogram:** A histogram showing message counts over time. The x-axis ranges from 17:40 to 17:50, and the y-axis ranges from 0 to 6. There are two bars: one at 17:40 with a height of approximately 1.5, and one at 17:45 with a height of approximately 6.
- Messages Table:** A table listing 5 messages with columns for Timestamp and source.

Timestamp	source
2015-10-12 17:39:18.553	127.0.0.1
MainActivity	
2015-10-12 17:39:18.553	127.0.0.1
MainActivity	
2015-10-12 17:39:18.553	127.0.0.1
MainActivity	
2015-10-12 17:39:18.553	127.0.0.1
MainActivity	

graylog Search Streams Dashboards Sources System ▾ In 11 / Out 11 msg/s Administrator ▾

Search in the last 15 minutes col\_result:80001

# col\_result:80001

Search result  
Found 5 messages in 3 ms, searched in 1 index.

Add count to dashboard ▾ Save search criteria More actions ▾

Fields  
Default All None Filter fields

- ▶  alias
- ▶  app\_id
- ▶  col\_counts
- ▶  col\_result
- ▶  col\_type
- ▶  level
- ▶  log\_level
- ▶  log\_name
- ▶  log\_timestamp
- ▶  message
- ▶  platform
- ▶  source
- ▶  uid

List fields of [current page](#) or [all fields](#).

### Histogram

⌚ Year, Quarter, Month, Week, Day, Hour, Minute

17:35 17:40 17:45 17:50

Add to dashboard ▾

### Messages

Timestamp ⓘ source

Timestamp ⓘ	source
2015-10-12 17:39:18.553	127.0.0.1 MainActivity

Previous 1 Next

# Demo



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Messages

Timestamp 1 2015-10-12 17:39:18.553 source 127.0.0.1

MainActivity

✉ 2527c621-70c5-11e5-bfd9-00163e021ffb

Received by GELF TCP on P 8C7aa798 / AY1305221127063849a3Z

Stored in index graylog2\_5

Field	Value
alias	alias name
app_id	com.getui.logsample
col_counts	3
col_result	80001
col_type	post_error
full_message	tpost_error r:80001 c:3
gl2_remote_ip	127.0.0.1
gl2_remote_port	56965
level	6
log_level	5
log_name	logger
log_timestamp	1444642758553
message	MainActivity
platform	android
source	127.0.0.1
uid	355002050700811
version	1.1

**t:post\_error|r:80001|c:3**

**uid:355002050700811**

## 日志 Web 工具

[Dashboard](#)[UID 工具](#)[日志工具](#)[管理工具](#)

## 日志工具

## 获取日志列表

## Platform

Android

## Application ID

com.getui.logsample

## UID

355002050700811

## Date

2015/09/17

[获取](#)

## 解密日志文件

## Application ID

## Log File

选择文件 未选择任何文件

[解密](#)

## 清理缓存文件

[清理](#)

日志 Web 工具

Dashboard

UID 工具

日志工具

管理工具

### 日志文件列表

Show 10 entries Search:

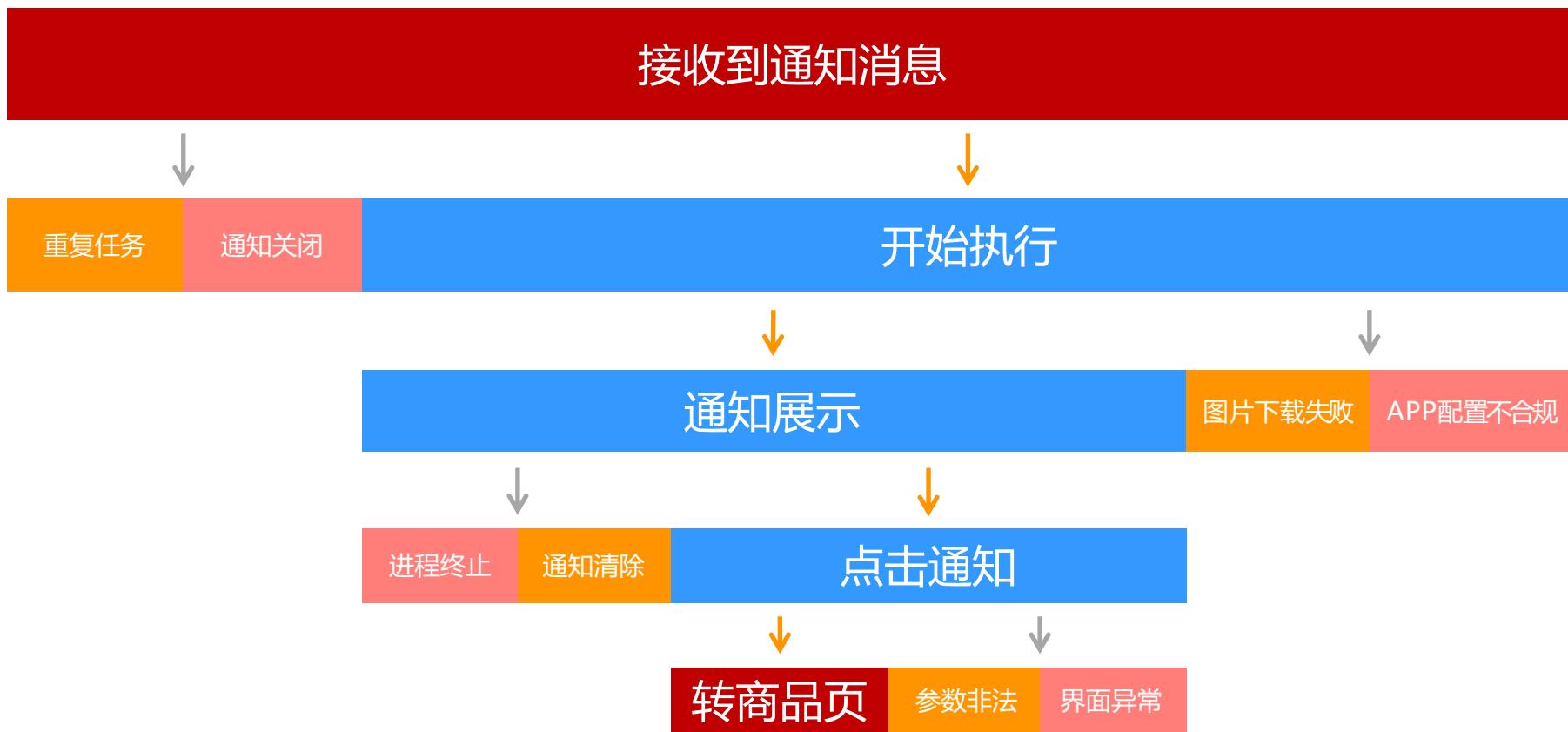
#	Filename	Size	Date	Download
1	app-20150917-verbose-3.bin	116 B	2015/09/17 13:51:11	<a href="#">下载文件</a>
2	app-20150917-debug-2.bin	168 B	2015/09/17 13:51:18	<a href="#">下载文件</a>

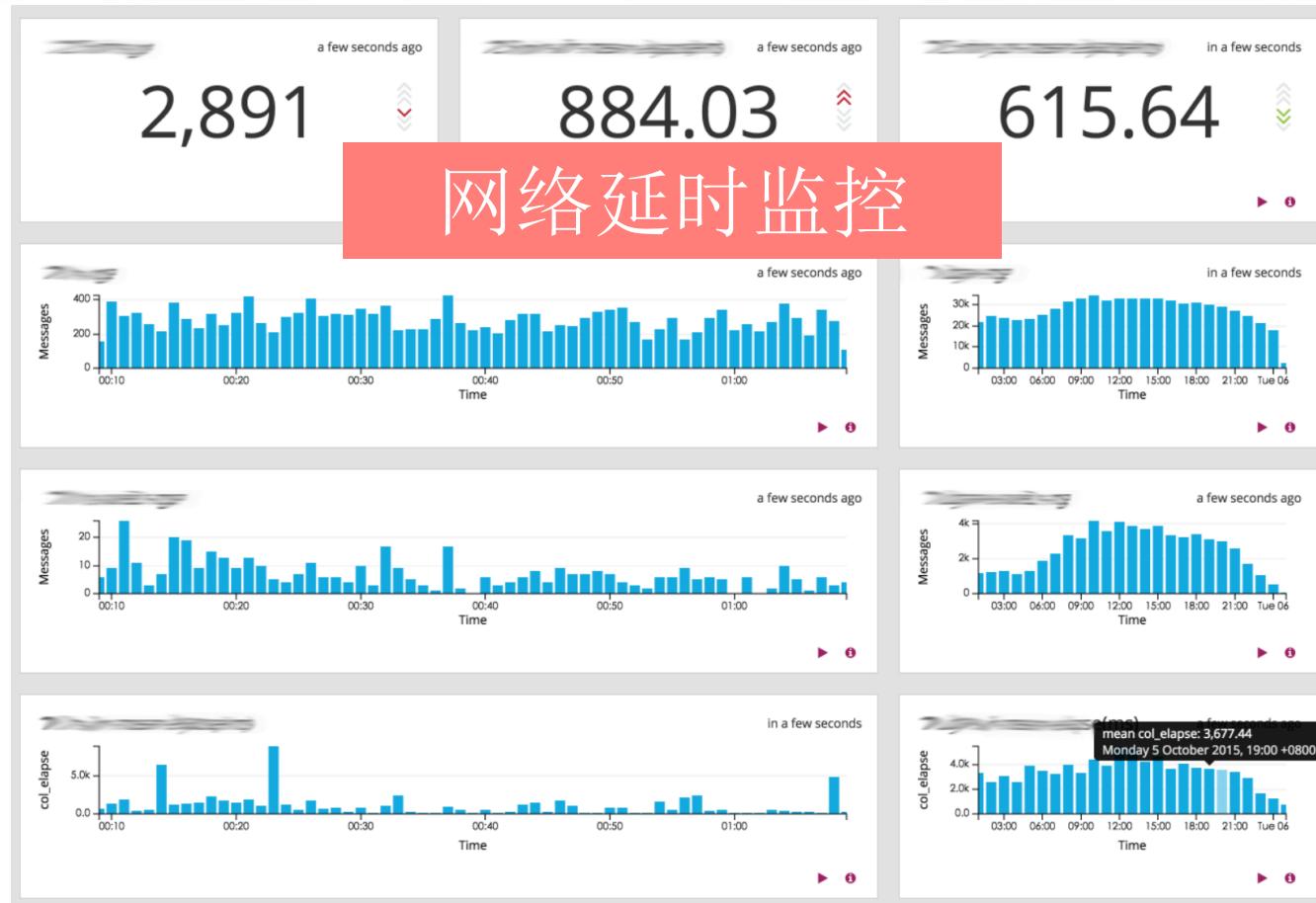
Showing 1 to 2 of 2 entries Previous 1 Next

关闭

355002050700811

```
default-20150917-debug-3.log *  
1 2015-09-17 23:07:51.239|AppListActivity|sdkstatus|timeout  
72 2015-09-17 23:07:51.574|AppListActivity|sdkconfig|timeout  
73 2015-09-17 23:07:52.390|AppListActivity|sdkversion|timeout  
74 2015-09-17 23:07:52.406|AppListActivity|sdkstatus|timeout  
75 2015-09-17 23:07:56.796|NetInfoManager|http|login|request|com.getui.test  
76 2015-09-17 23:07:56.802|NetInfoManager|http|login|request|com.getui.test  
77 2015-09-17 23:07:56.873|NetInfoManager|http|login|request|com.sds.android.ttpod  
78 2015-09-17 23:07:56.881|NetInfoManager|http|login|request|com.sds.android.ttpod  
79 2015-09-17 23:07:56.915|NetInfoManager|http|login|response|200  
80 2015-09-17 23:07:56.918|NetInfoManager|http|cid status|request|3a07d6f3077e8c73b3ab4b090bdb07e2|com.getui.test  
81 2015-09-17 23:07:56.916|NetInfoManager|http|login|response|ok  
82 2015-09-17 23:07:56.954|NetInfoManager|http|login|request|com.storm.smart  
83 2015-09-17 23:07:56.954|NetInfoManager|http|login|response|200  
84 2015-09-17 23:07:56.954|NetInfoManager|http|login|request|com.storm.smart  
85 2015-09-17 23:07:56.954|NetInfoManager|http|login|response|ok  
86 2015-09-17 23:07:56.956|NetInfoManager|http|cid detail|request|3a07d6f3077e8c73b3ab4b090bdb07e2|com.getui.test  
87 2015-09-17 23:07:57.074|NetInfoManager|http|login|response|200  
88 2015-09-17 23:07:57.075|NetInfoManager|http|login|response|ok  
89 2015-09-17 23:07:57.077|NetInfoManager|http|cid detail|request|65917317e6dda973bb37b4aefd604d72|com.sds.android.ttpod  
90 2015-09-17 23:07:57.116|NetInfoManager|http|login|response|200  
91 2015-09-17 23:07:57.117|NetInfoManager|http|cid detail|request|c55f87e31e2b178af4df2d17ca74a2e7|com.storm.smart  
92 2015-09-17 23:07:57.116|NetInfoManager|http|login|response|ok  
93 2015-09-17 23:07:57.128|NetInfoManager|http|cid status|response|200|com.getui.test  
94 2015-09-17 23:07:57.161|NetInfoManager|http|cid detail|response|200|com.getui.test  
95 2015-09-17 23:07:57.177|NetInfoManager|http|login|response|200  
96 2015-09-17 23:07:57.177|NetInfoManager|http|login|response|ok
```





## Alerts configuration for stream >

You can define thresholds on any message field or message count of a stream and be alerted based on this definition.

 Learn more about alerts in the [documentation](#).

### Add new alert condition

Message count condition  [Configure new alert condition](#)

### Configured alert conditions

Field value condition

Alert ... when col\_elapse has a higher mean value than 10000 in last 5 minutes.

### Callbacks

The following callbacks will be performed when this stream triggers an alert.

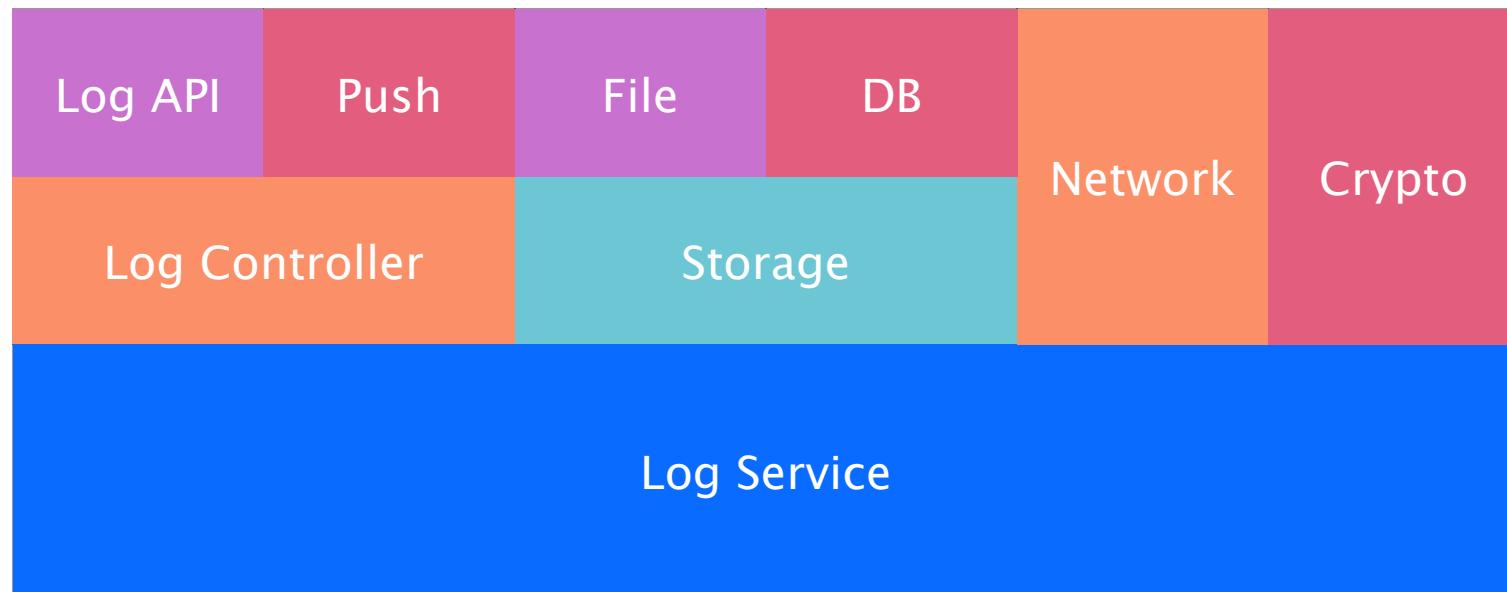
Email Alert Callback 

[Add callback](#)

 [Find more callbacks](#)

#### Email Alert Callback

Executed once per triggered alert condition.

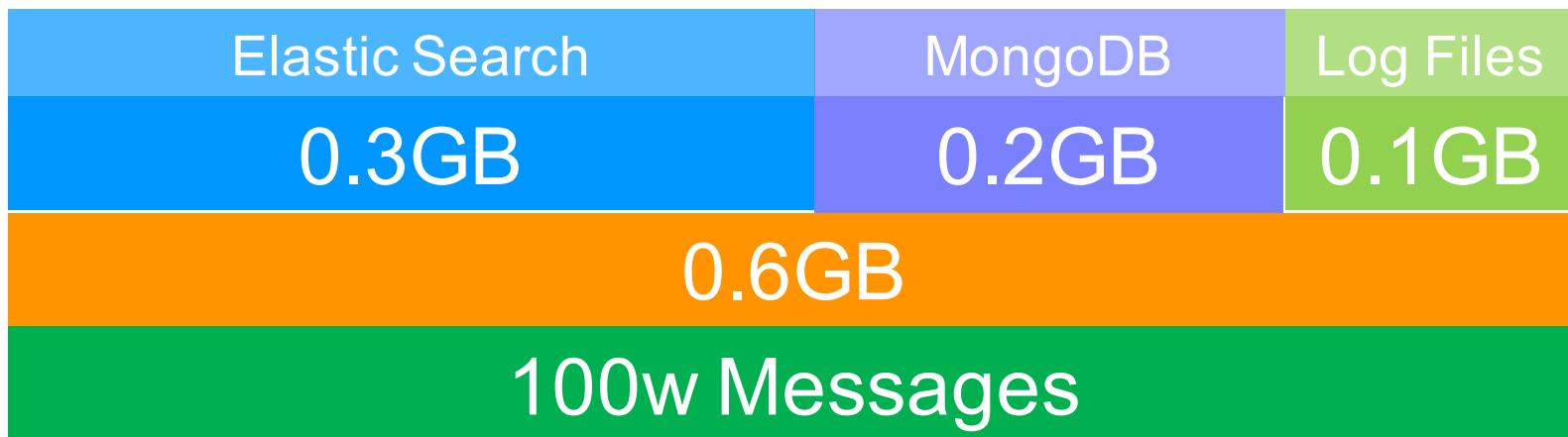


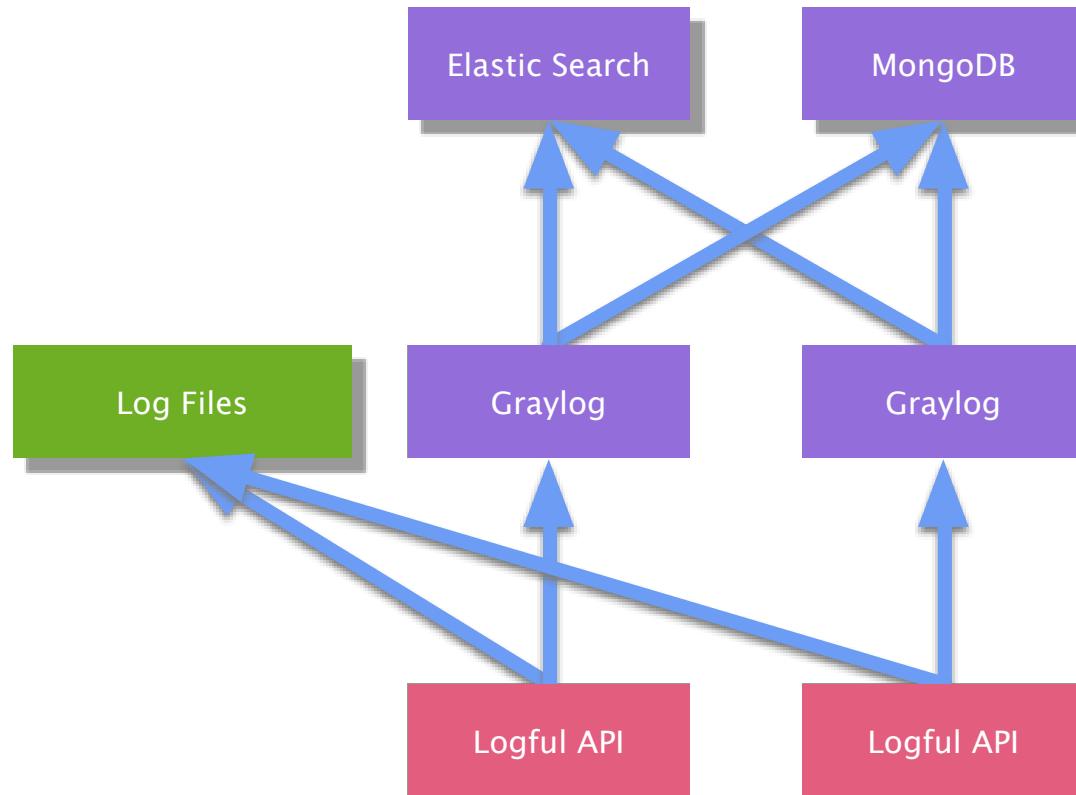
pkg\_name uid

date log\_name level log1 log2 ...

timestamp tag message

日志级别	是否进Graylog	用途
verbose	否	通过Logful Web检索详细日志排查问题
debug	是	记录关键的程序执行点
info	是	收集程序运行时信息
warn	是	手机关键的警告信息
error	是	记录程序未按预想逻辑执行的错误
exception	是	记录部分重要的异常捕获
fatal	是	Crash或者其他导致程序无法继续正常运行的严重错误





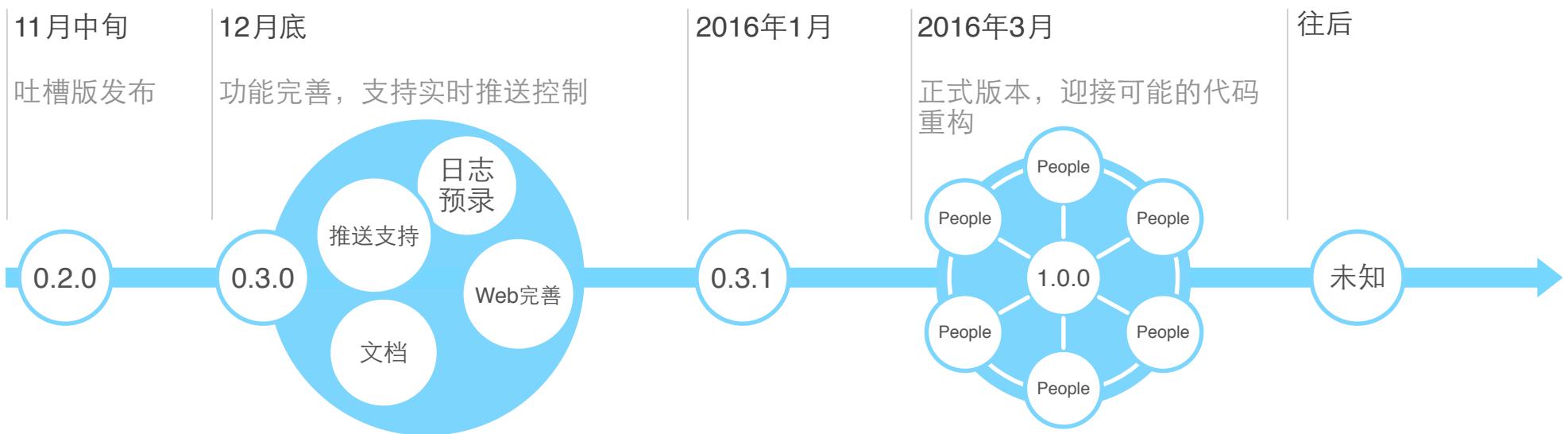
- Android/iOS支持
- 日志加密存储和上传
- 日志检索
- 实时日志开关
- 灰度日志开关
- Wifi下上传

- 截图支持
- 日志预录
- 别名支持
- 日志模板
- 数据监控

开 源

<https://github.com/logful>

11月中旬





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@个推



@dwelling



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