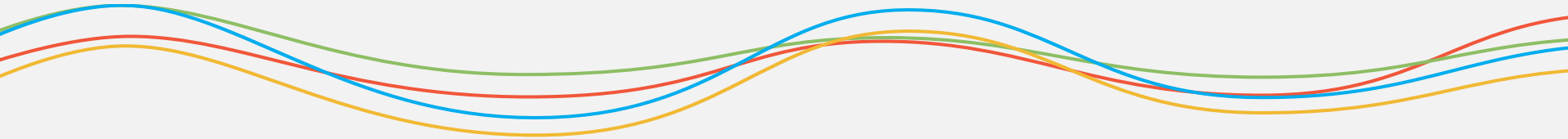
APMCon

浅谈App优化

Henry@饿了么 18/8/2016



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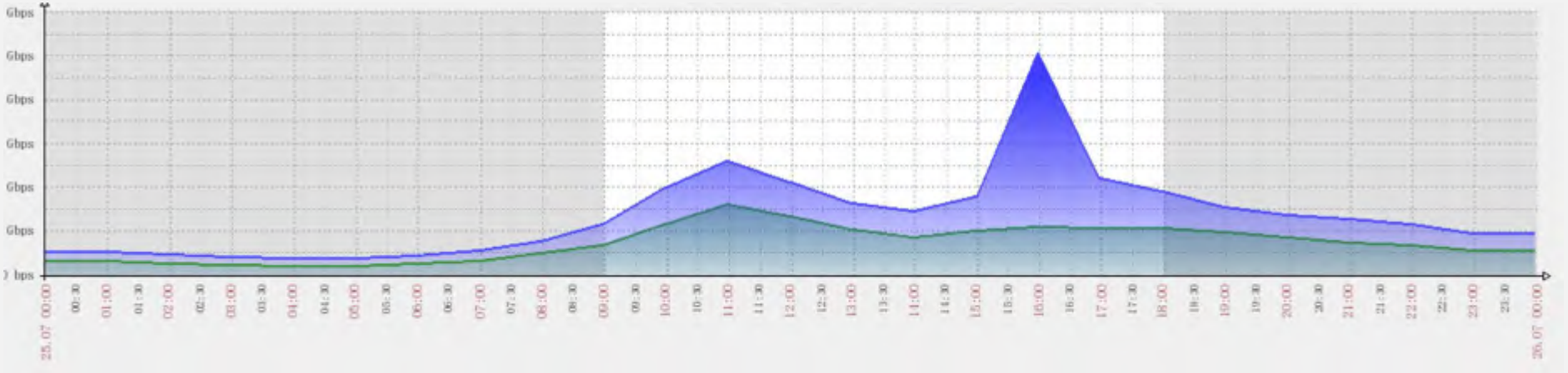
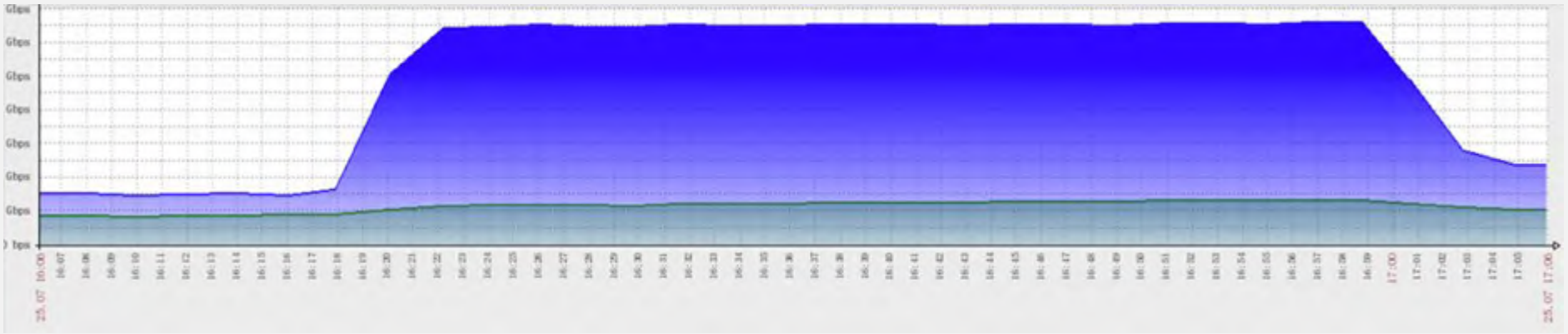
- App Diet
- API Gateway
- Network Optimization

一次惨痛的教训

APMCon





一次惨痛的教训

由于配置原因导致下载APK文件直接回源，在短短40分钟内造成服务器流量异常，严重影响其它服务的同时流量费多开销60w之多。

随着WIFI的普及以及流量费用不断降低，让原本很多开发者不在Care 包的大小。但是通过这个惨痛的教训告诉我们，APP瘦身利人利己，百利而无一害。

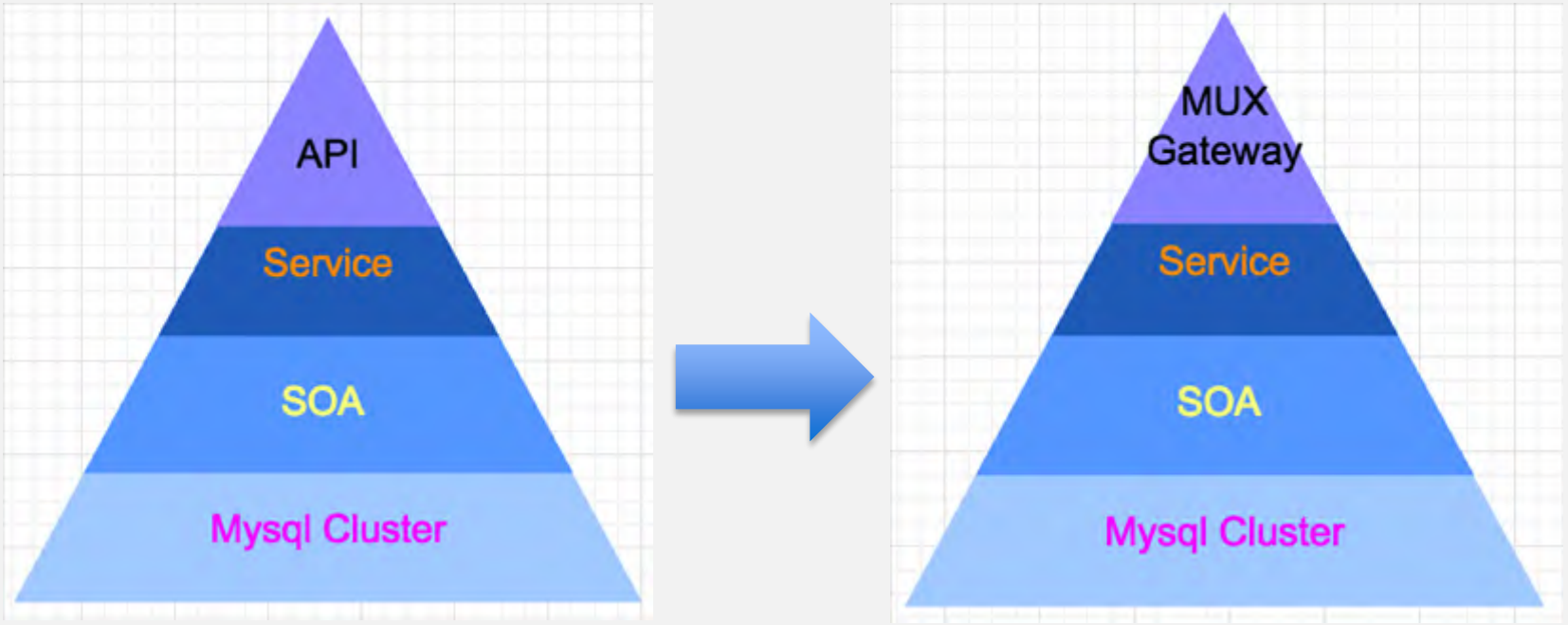
App Diet

APMCon

- Use minifyEnabled;
- Use shrinkResources;
- Remove unused resource;
- Avoid big image(If necessary， take jpg replace png);
- Try webp;
- Code reuse, resource reuse;

API Gateway

APMCon



API Gateway advantage

APMCon

- No more API Team
- Configurable
- Flexibility
- Loose coupling
- Easily trouble shooting

Network Optimization

APMCon

Type	Length(20 rows)	Compress Rate	Length(100 rows)	Compress Rate
Text	33922 bytes	0	168144 bytes	0
PB	**33936 btyes**	**?**	**168158 bytes**	**?**
PB+GZIP	3810 bytes	88.8%	14867 bytes	91.2%
PB+7Z	2972 bytes	91.2%	10839 bytes	93.6%

Network Optimization(20 rows)

APMCon

Size	
Request Header	369 bytes
Response Header	373 bytes
Request	33.13 KB (33922 bytes)
Response	–
Total	33.85 KB (34664 bytes)
Request Compression	–
Response Compression	–

Size	
Request Header	392 bytes
Response Header	372 bytes
Request	3.72 KB (3810 bytes)
Response	–
Total	4.47 KB (4574 bytes)
Request Compression	88.8% (gzip)
Response Compression	–

Size	
Request Header	369 bytes
Response Header	374 bytes
Request	33.14 KB (33936 bytes)
Response	–
Total	33.87 KB (34679 bytes)
Request Compression	–
Response Compression	–

Size	
Request Header	368 bytes
Response Header	372 bytes
Request	2.90 KB (2972 bytes)
Response	–
Total	3.62 KB (3712 bytes)
Request Compression	–
Response Compression	–

Network Optimization(100 rows)

APMCon

Size	
Request Header	370 bytes
Response Header	374 bytes
Request	164.20 KB (168144 bytes)
Response	-
Total	164.93 KB (168888 bytes)
Request Compression	-
Response Compression	-

Size	
Request Header	393 bytes
Response Header	373 bytes
Request	14.52 KB (14867 bytes)
Response	-
Total	15.27 KB (15633 bytes)
Request Compression	91.2% (gzip)
Response Compression	-

Size	
Request Header	370 bytes
Response Header	372 bytes
Request	164.22 KB (168158 bytes)
Response	-
Total	164.94 KB (168900 bytes)
Request Compression	-
Response Compression	-

Size	
Request Header	369 bytes
Response Header	373 bytes
Request	10.58 KB (10839 bytes)
Response	-
Total	11.31 KB (11581 bytes)
Request Compression	-
Response Compression	-

Network Optimization

APMCon

- Why pb big than text?
- Take advantage of HTTP2.
- Try more powful lossless compression algorithms.
- Take TCP replace HTTP.

APMCon

Q& A

THANK YOU