

# Tars Introduction



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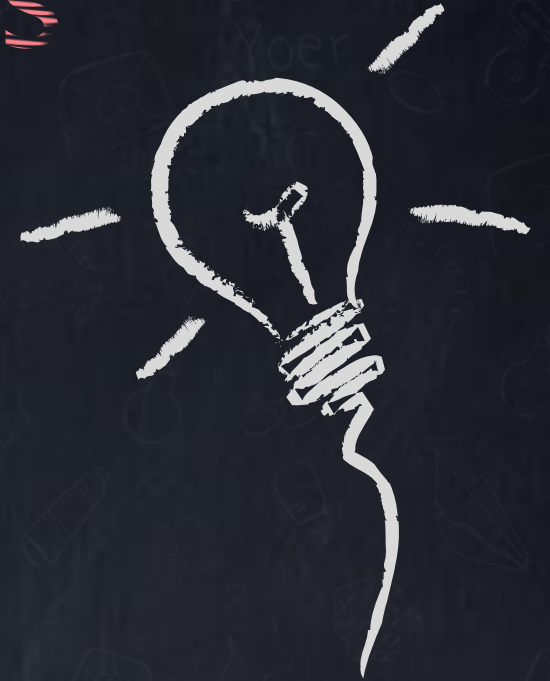
What is Tars from User Perspective



Tars Architecture/Key Features



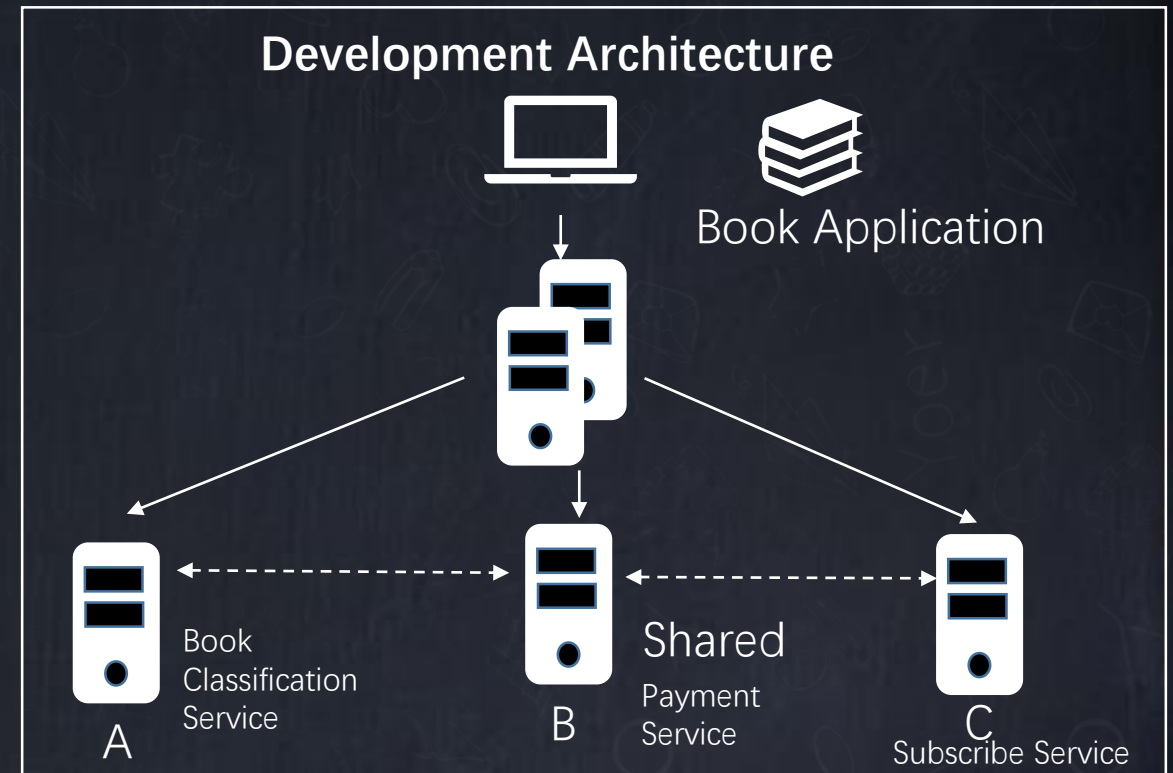
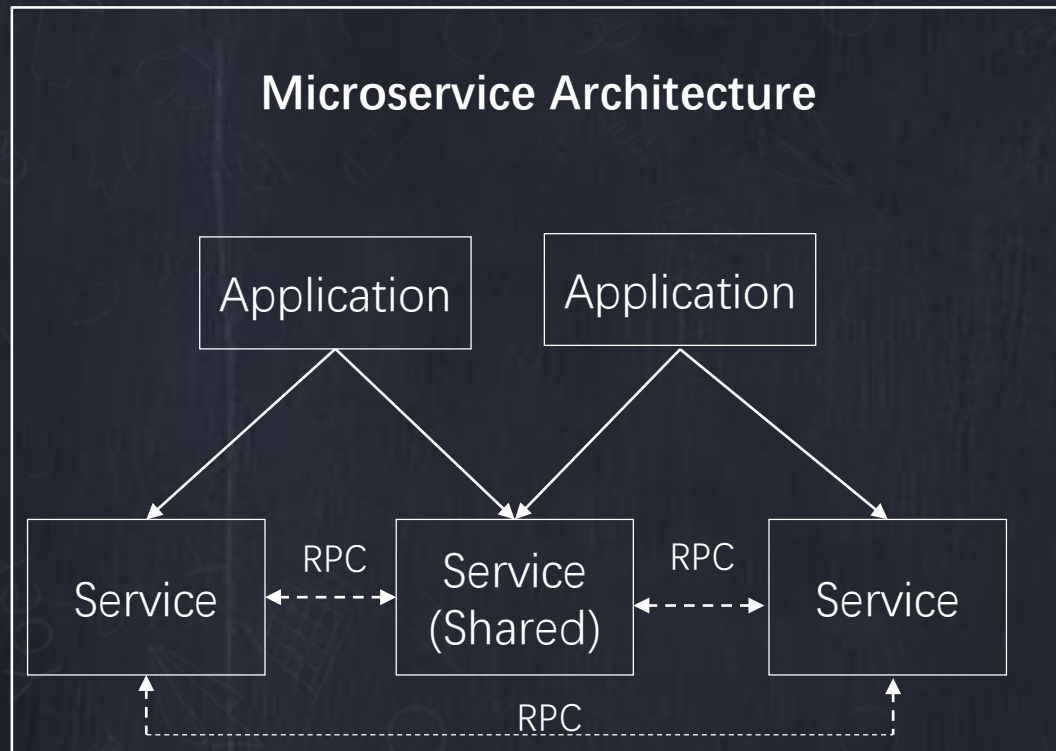
Tars Ecosystem and open source roadmap



# What is Tars from User Perspective

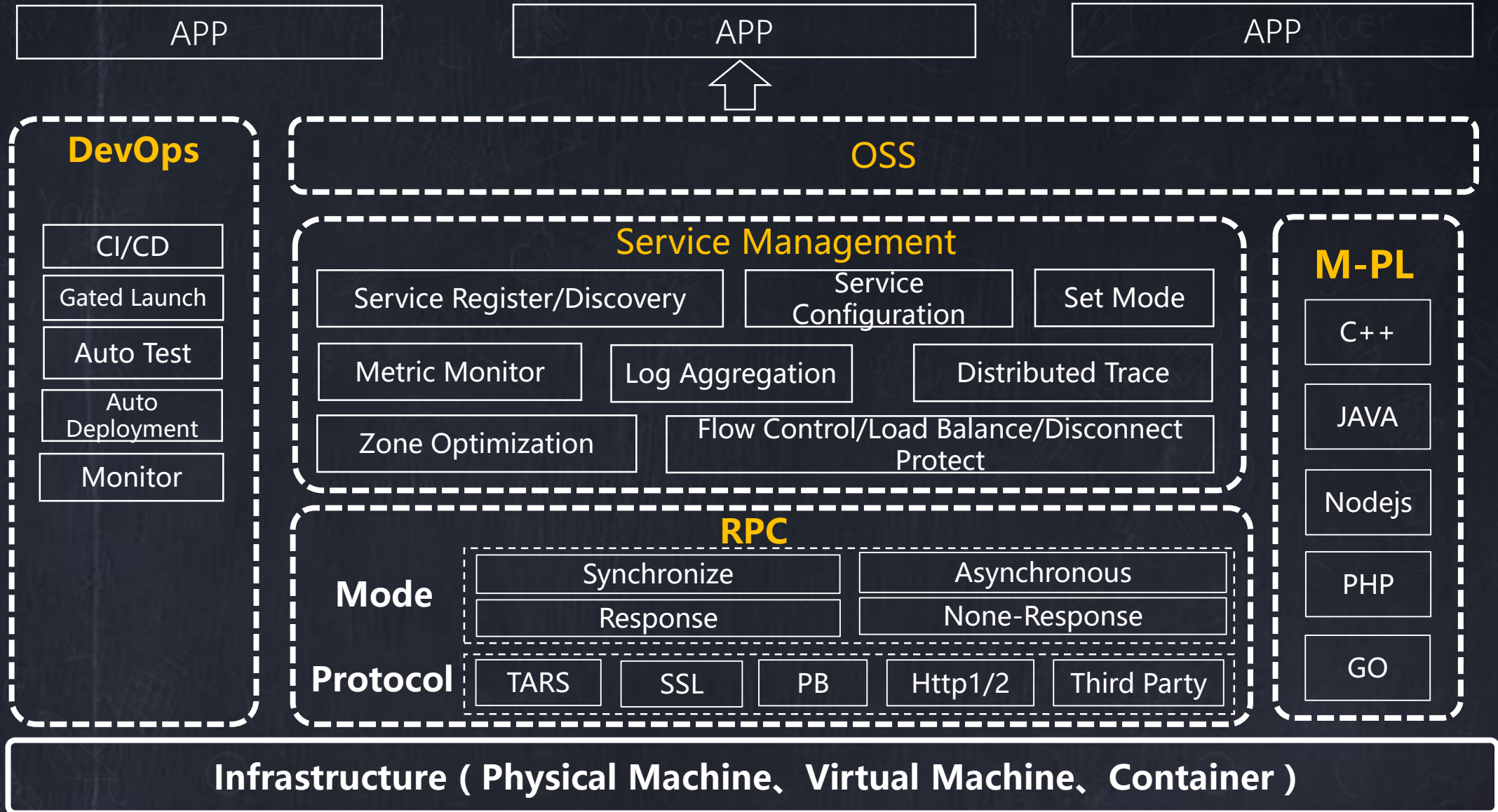
A Distributed Microservice Framework which help customer develop/manage/monitor application efficiently.

- ❑ Deploy Service Independently
- ❑ Application consists of ( maps to ) multiple Services.
- ❑ Multiple Services communicate with each others based on TCP/UDP.





# Tars Architecture



# Tars Key Feature-

Register/Discovery/M-PL



Registry Instance

Service	Node
Service A	S1
Service B	S2
Service C	S3
Service D	S4

Heartbeat/Healthy Status Monitor



Server1  
C++



Server2  
JAVA



Server3  
PHP



Server4  
C++

High Availability

Clients



stringToProxy("PetObj")

Get PetSvr IP:Port

TCP/UDP

TCP/UDP

TCP/UDP

Service

Service

Service

node

node

node



Registry

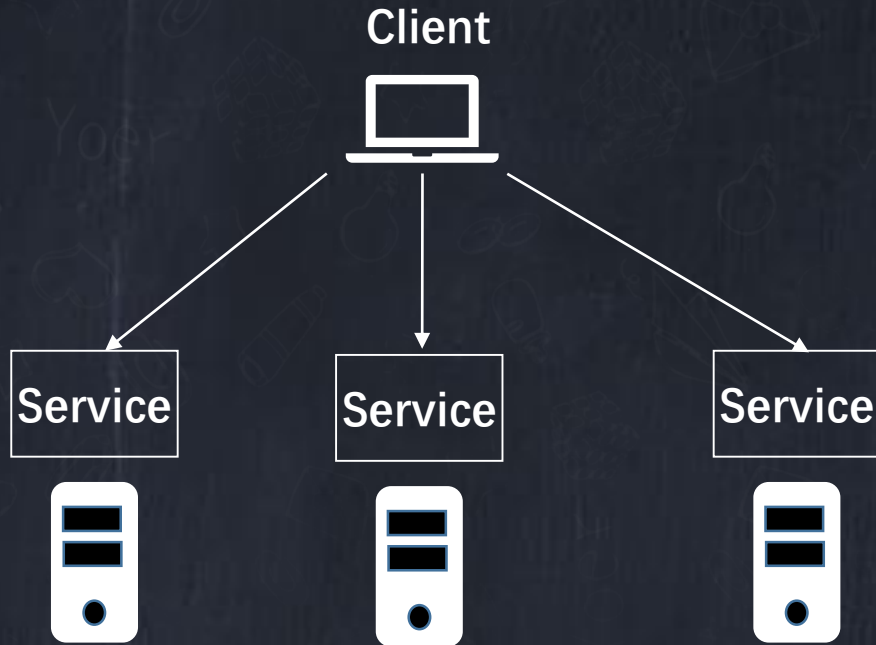
Backup

Registry

- ❑ Switch to another service on a new machine when one server is frozen, get rid of the bad entry in the registry as well.
- ❑ Stop/suspend the service when Service suffer massive packets attack.

# Tars Key Feature-III

## Load Balance



- ❑ Load Balance algorithm is based on round-robin, Consist Hash, static/dynamic configuration.

## Set

### 1 Million Users



### 4 Million Users

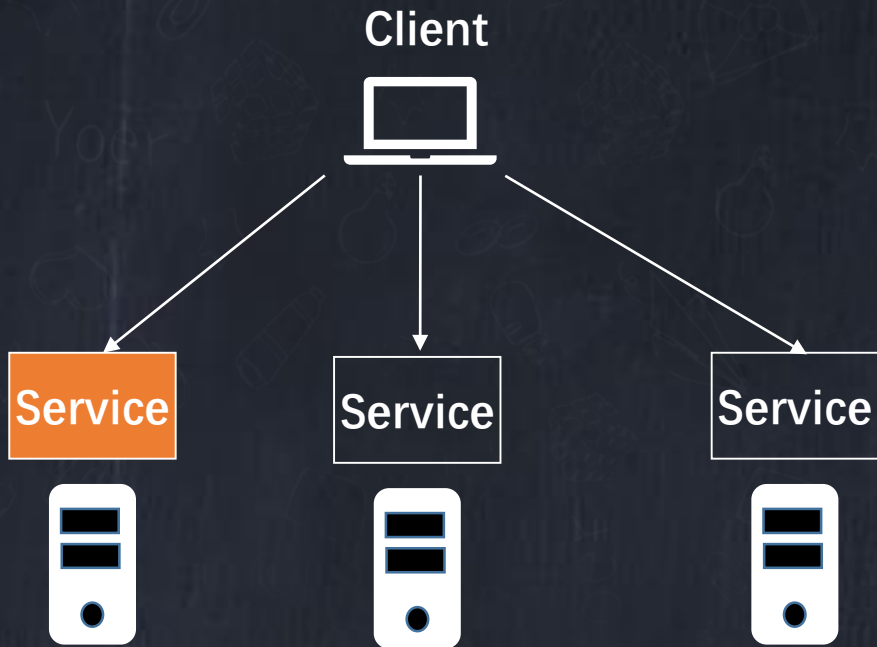


- ❑ Fault Isolation between different Set.
- ❑ Service Capacity can be scaled out based on Set gratuity .
- ❑ One Set can be used for a specified application/services based on customer requirements.

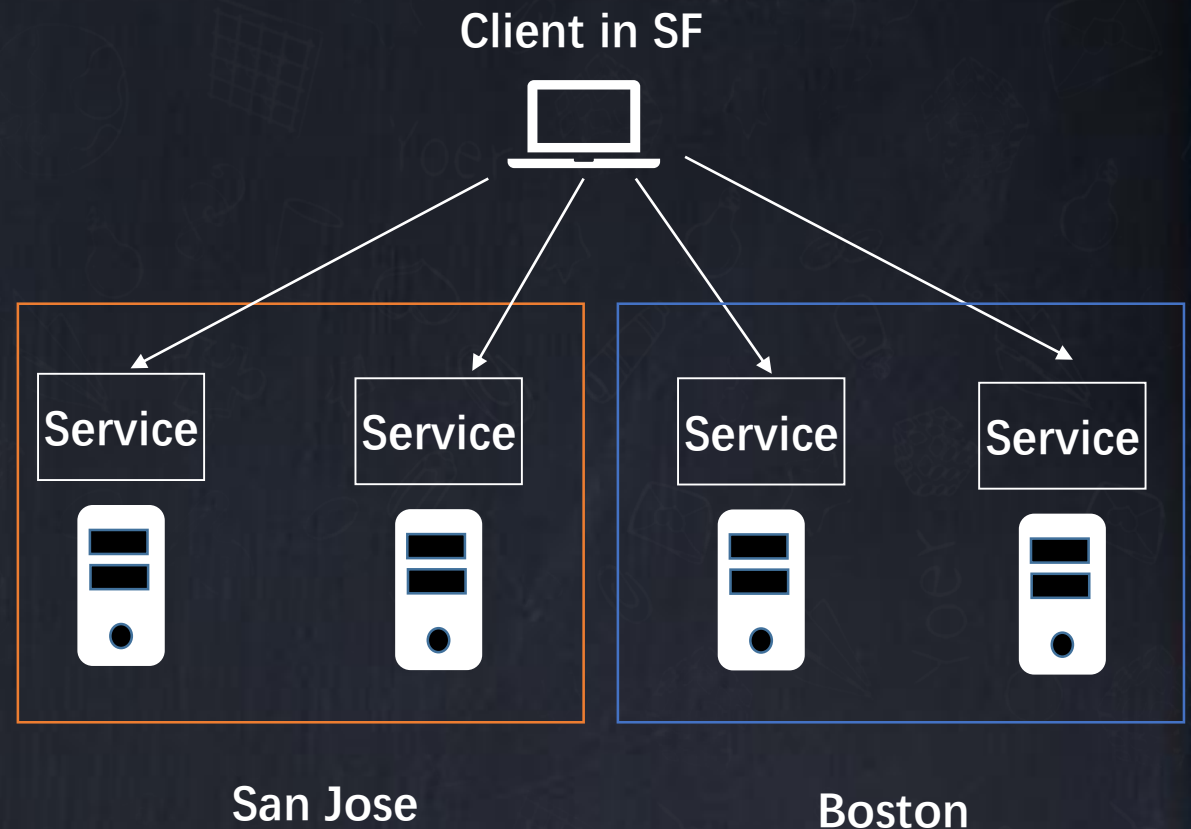


# Tars Key Feature-III

Gated/Dark Launch



Zone Detection/Performance Optimization



# Tars Key Feature-V

## Web Configuration

[添加配置](#)

服务名称	文件名称	最后修改时间	操作
<input checked="" type="radio"/> TestApp.TracingJavaFourServer	application.properties	2018-05-14 21:34:24	<a href="#">修改配置</a>   <a href="#">删除配置</a>   <a href="#">查看内容</a>   <a href="#">查看历史</a>

引用文件列表

[添加引用文件](#)

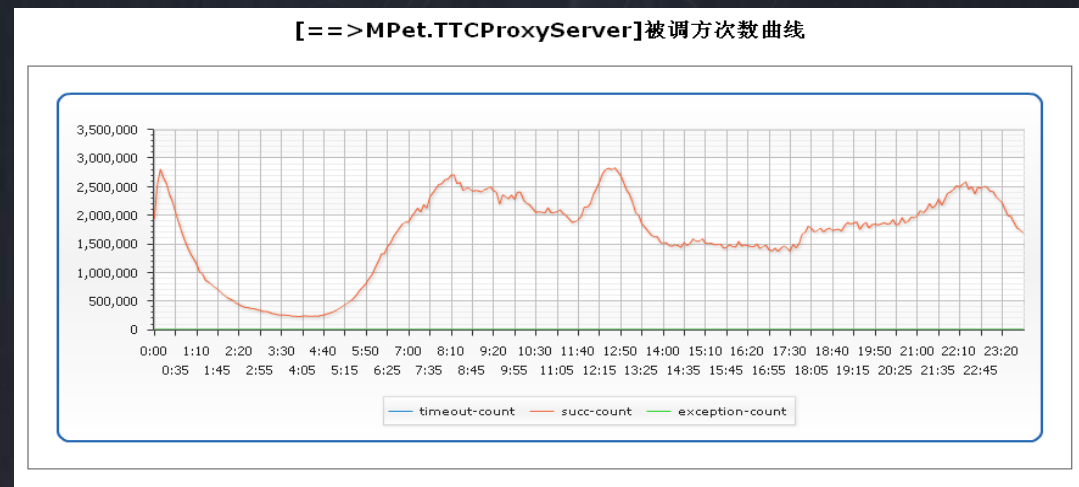
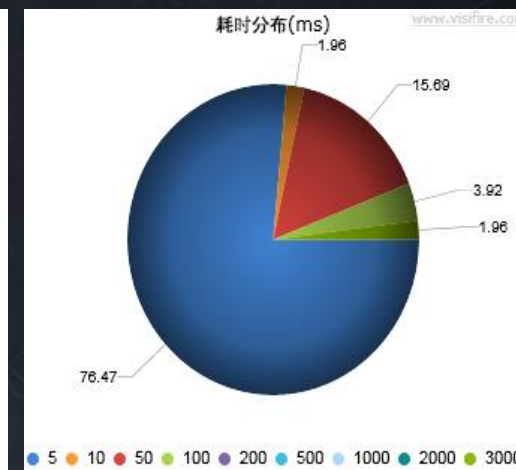
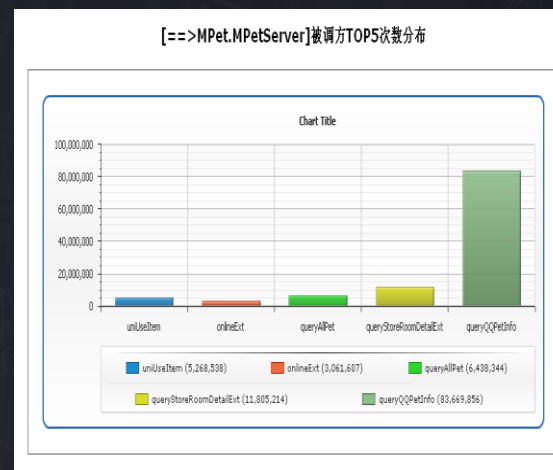
服务名称	节点	文件名称	最后修改时间	操作
TestApp		TestApp.conf	2018-06-18 20:50:29	<a href="#">删除引用</a>   <a href="#">查看引用内容</a>   <a href="#">查看历史</a>

节点配置列表

[PUSH配置文件](#)

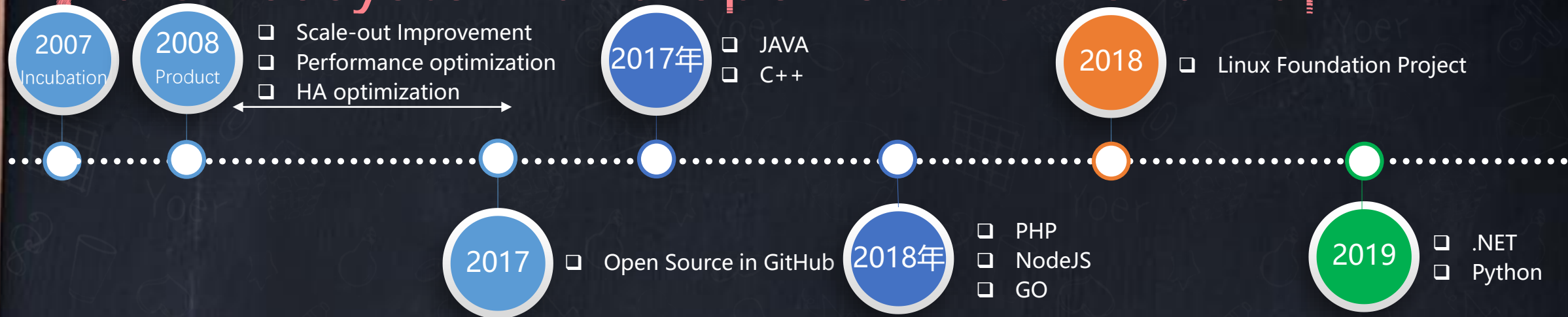
<input type="checkbox"/>	服务名称	节点	文件名称	最后修改时间	操作
<input type="checkbox"/>	TestApp.TracingJavaFourServer	10.120.129.226	application.properties	2018-05-14 21:34:24	<a href="#">修改配置</a>   <a href="#">查看合并后配置</a>   <a href="#">查看节点内容</a>   <a href="#">查看历史</a>   <a href="#">管理引用文件</a>

## Web Monitor





# Tars Ecosystem and open source roadmap



## Adopters

Tencent、VIVO、Iflytek、China Literature Limited et al



## Use Cases

Access Business : 300+ ,  
 Access Service : 20 000 +  
 Server Number : 100 000+  
 Visitor per day : 1 Billion+



Game



Connected-Car



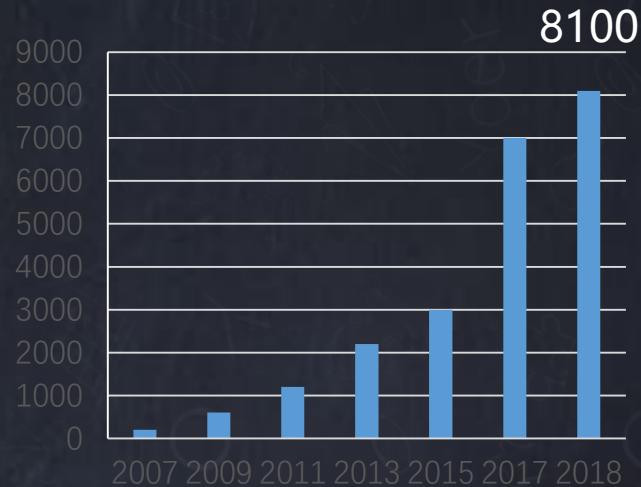
Finance



Live Video

## Developers

More than 8000 developers



Thank you

