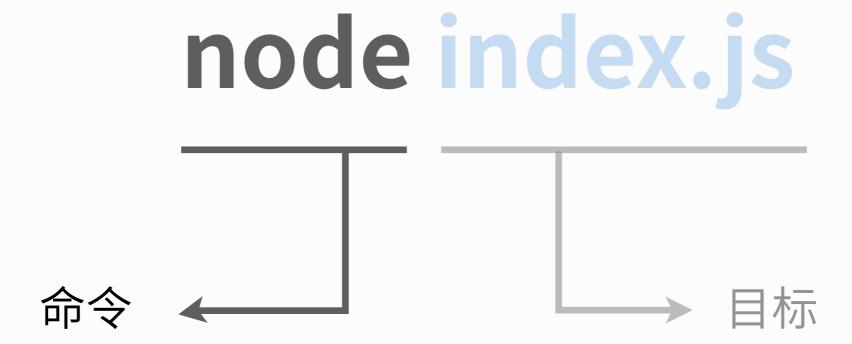
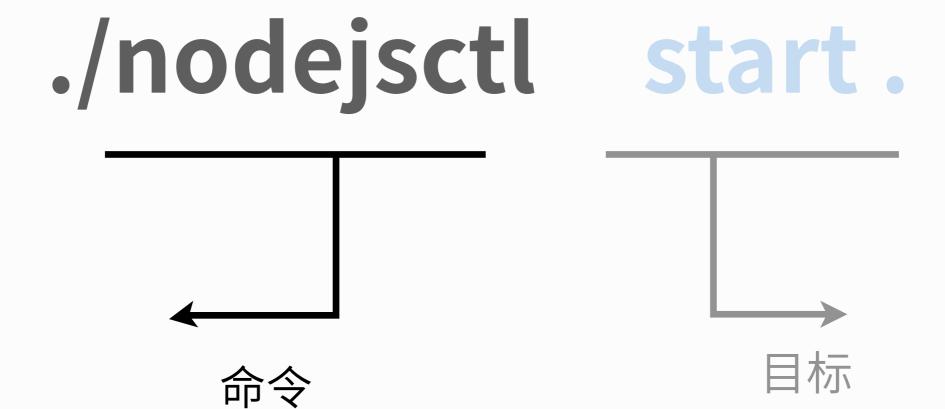


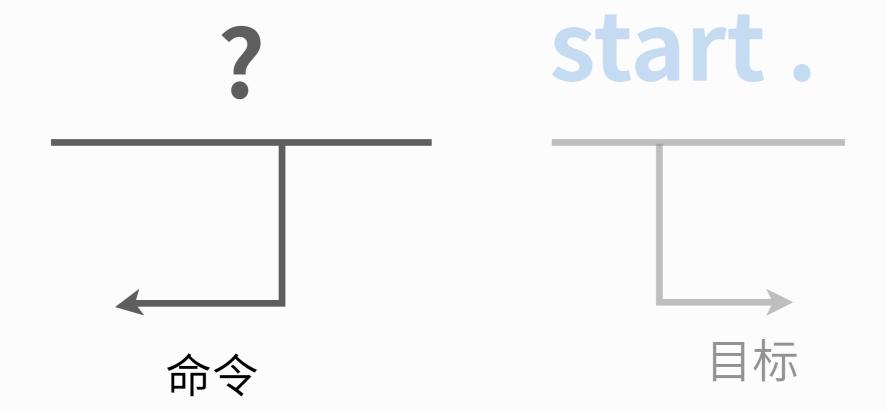
张挺 @ Taobao















- ◎满足开发需求
- ◎满足管理需求
- ◎满足业务需求



pandora start.



pandora start pandora dev

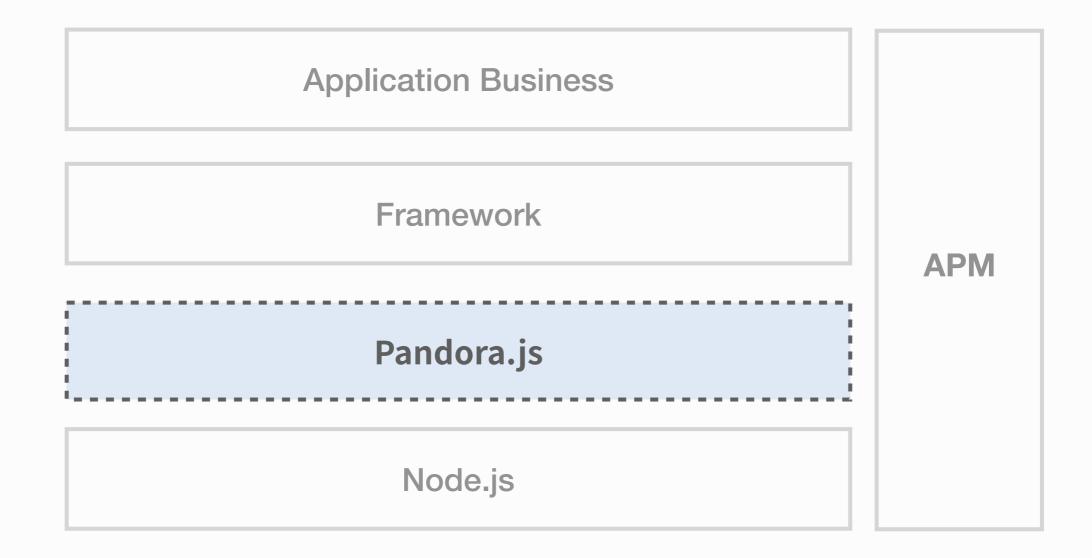
• • •



让我们重新介绍 Pandora.js

一个为 Node.js 应用而生的 应用管理器

An Application Manager Tool For Node.js Application



- 开发模式统一
- 框架轻量化
- 中间件管理
- 监控一致性



start

dev

inject Applet

inject Service

inject Environment

inject Configurator

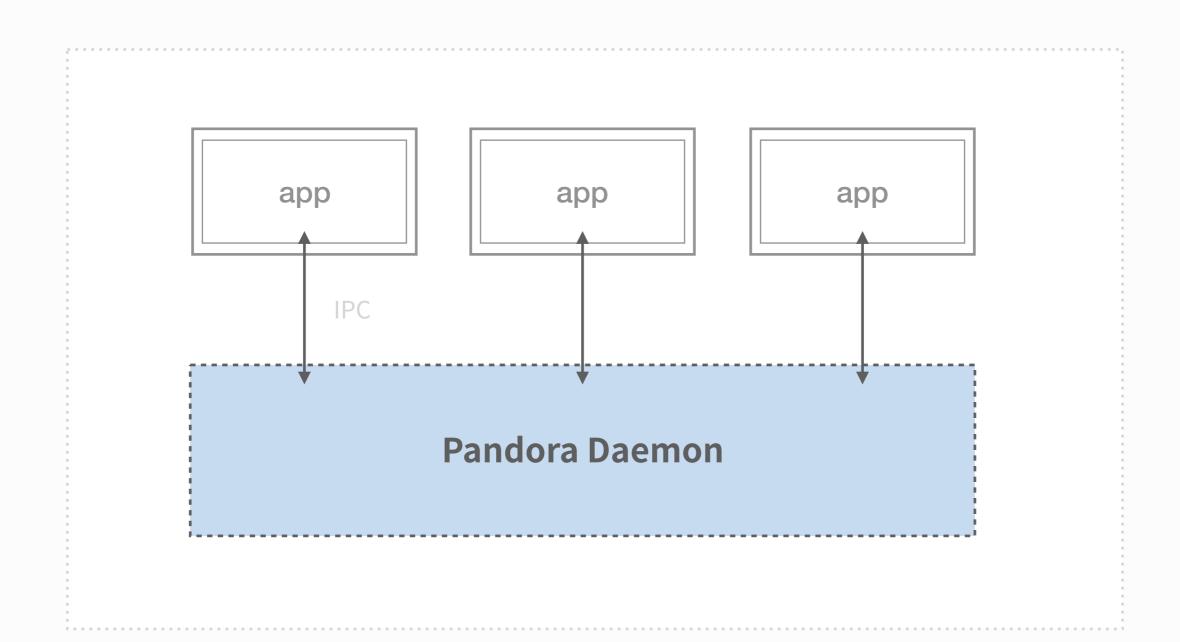
reload

stop

destory

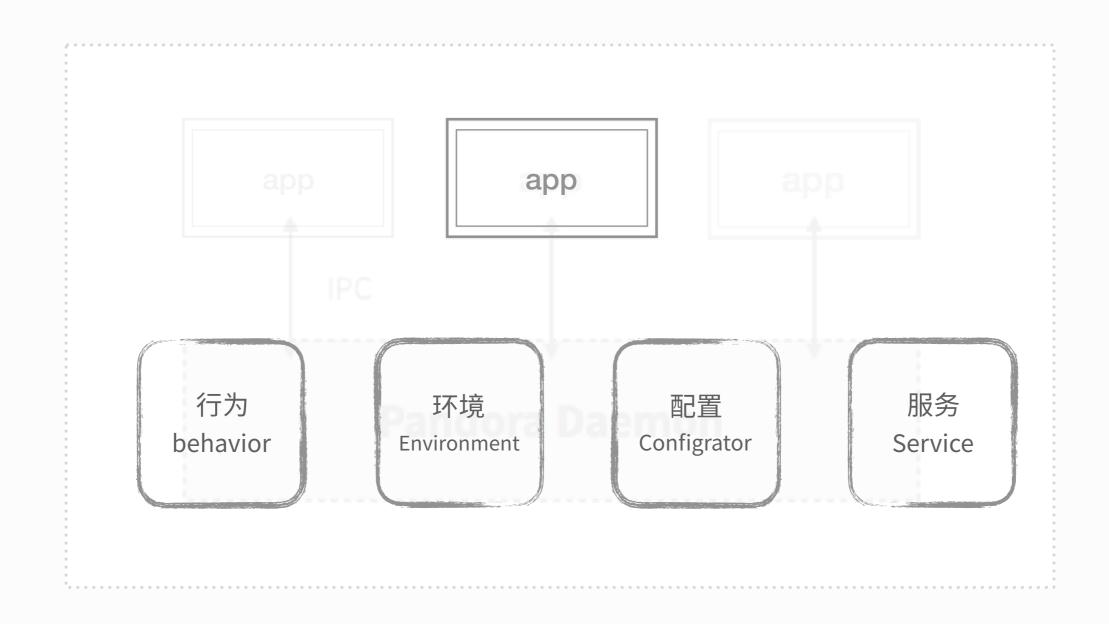
create







Pandora.js 的应用定义

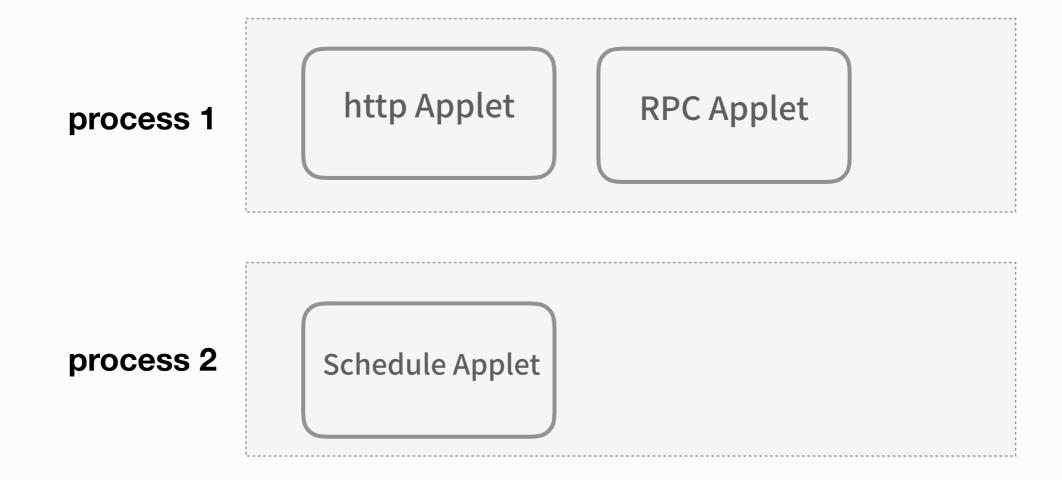


- 进程伸缩
- 进程守护

pandora start — mode fork app.js pandora start - m cluster app.js



procfile.js procfile.js



#start #stop

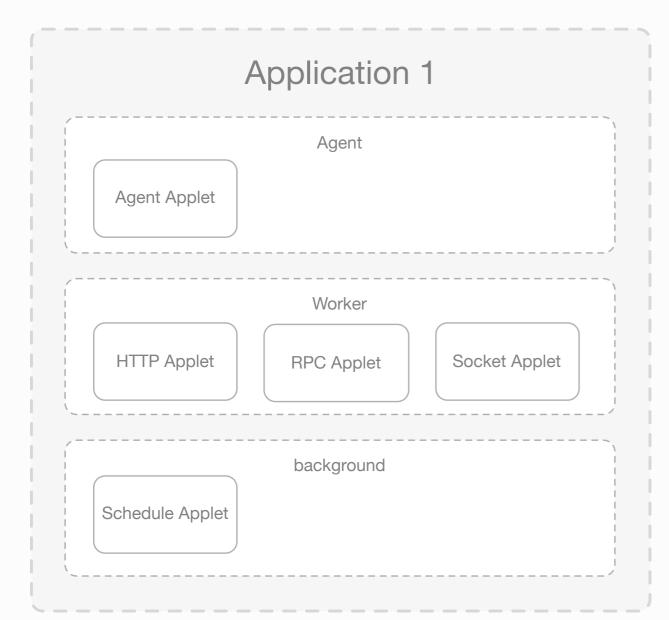
```
module.exports = function (pandora) {
 pandora.configurator(MyConfigurator);
pandora.service(A)category('background');
 pandora.service(B).category('background');
 pandora.applet(AppletA).name( 'XXX' ).category('background');
 pandora.applet(AppletB).config((context) => {
 return context.config;
});
```

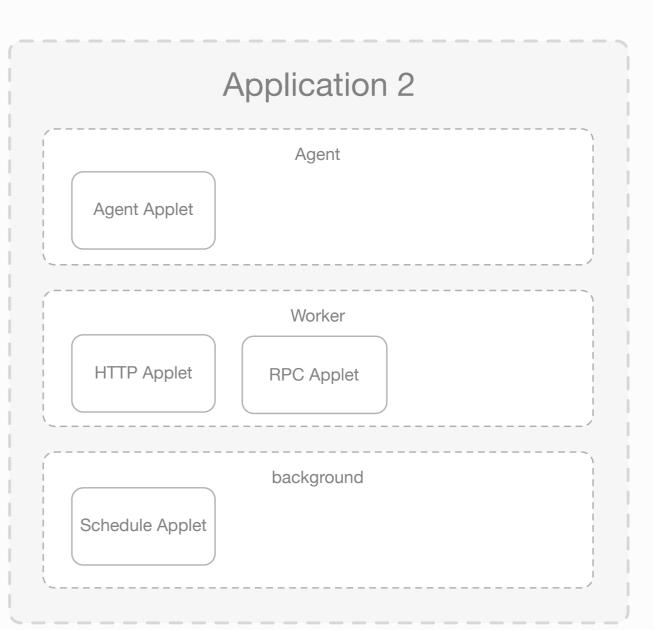


Pandora Daemon

Daemon

Monitor





- EndPoint暴露能力
- Metrics 自定义能力

EndPoint(A)

group 1:n

Indicator (A)

Server

Client

HealthEndPoint

DiskCheckIndicator

PortCheckIndicator

MysqlCheckIndicator

RPCCheckIndicator



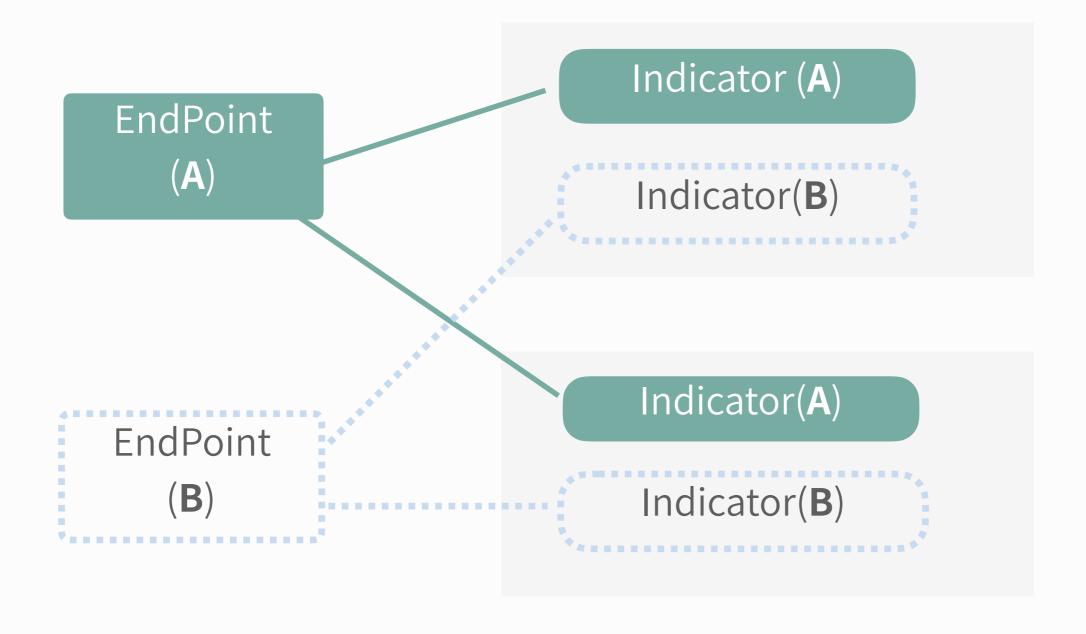
HealthEndPoint	/health	健康检查
InfoEndPoint	/info	静态信息,应用名,路径等
RuntimeEndPoint	/runtime	运行时,配置等
ErrorEndPoint	/error	错误数据
ProcessEndPoint	/process	进程信息
MetricsEndPoint	/metrics	metrics指标数据



Server Client IPC Indicator (A) EndPoint(A) Indicator (A) 分组 group 集合 Indicators 自发现 Discover Indicator (A)



Server Client



- MetricsManager
- MetricsReporter

- Gauge
- Counter
- Histogram
- Meter
- Timer

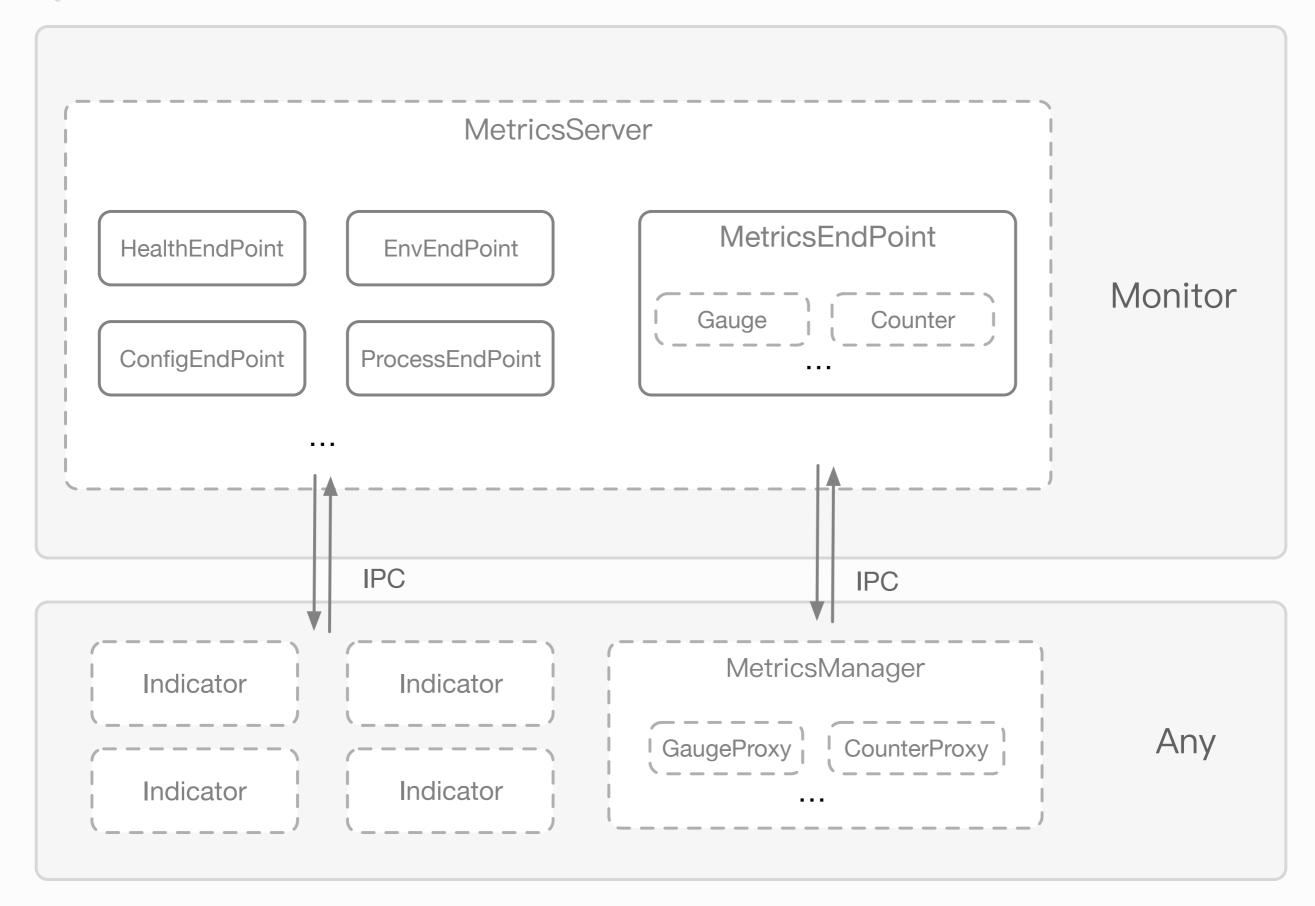
Client.register('test', 'test.metrics.key', new?<Metric>())

- MetricsManager
- MetricsReporter



- OneAPM
- Alinode
- NewRelic
- open-falcon
- • •

- Metrics 是 EndPoint 体系的一部分
- Metrics 的高实时性
- EndPoint 的数据体量大很多





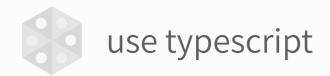
express











Typescript



midwayjs/pandora

FAQ & thanks