

ArchData

技术峰会上海站

主办方



2017年9月9日 上海徐汇区田林路200号C座一楼COCOSPACE



Mercury Cloud

Noah云平台监控

“Seeing Inside Containers is Not Easy”

Container are :

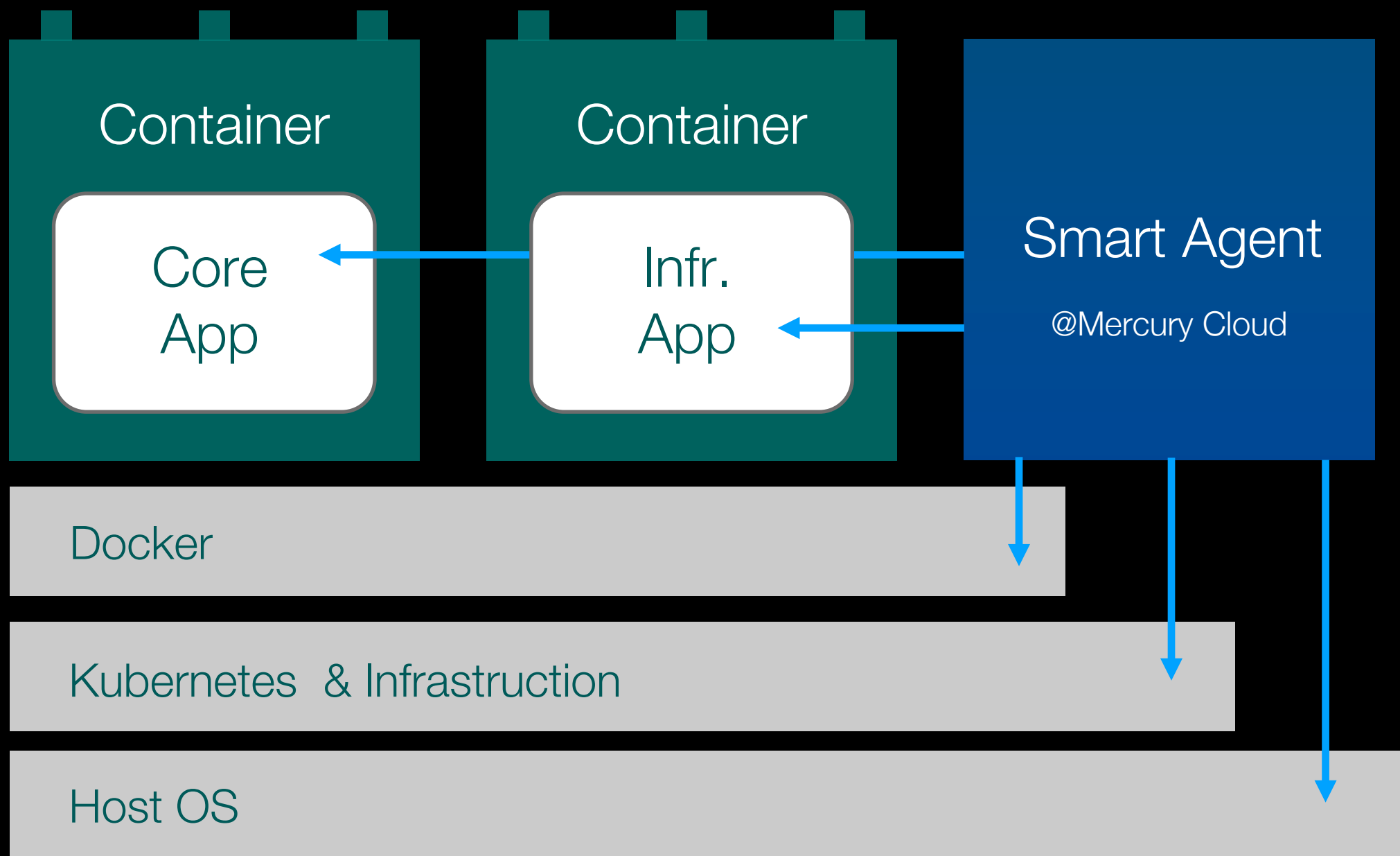


Isolated

Self-Contained

Simple, Lightweight

“Mercury Cloud Vision”



“Mercury Cloud Vision”

Cloud Technical Stack

APP & Infrastructure

Container

Kubernetes & Infrastructure

Host OS

Monitor Tools

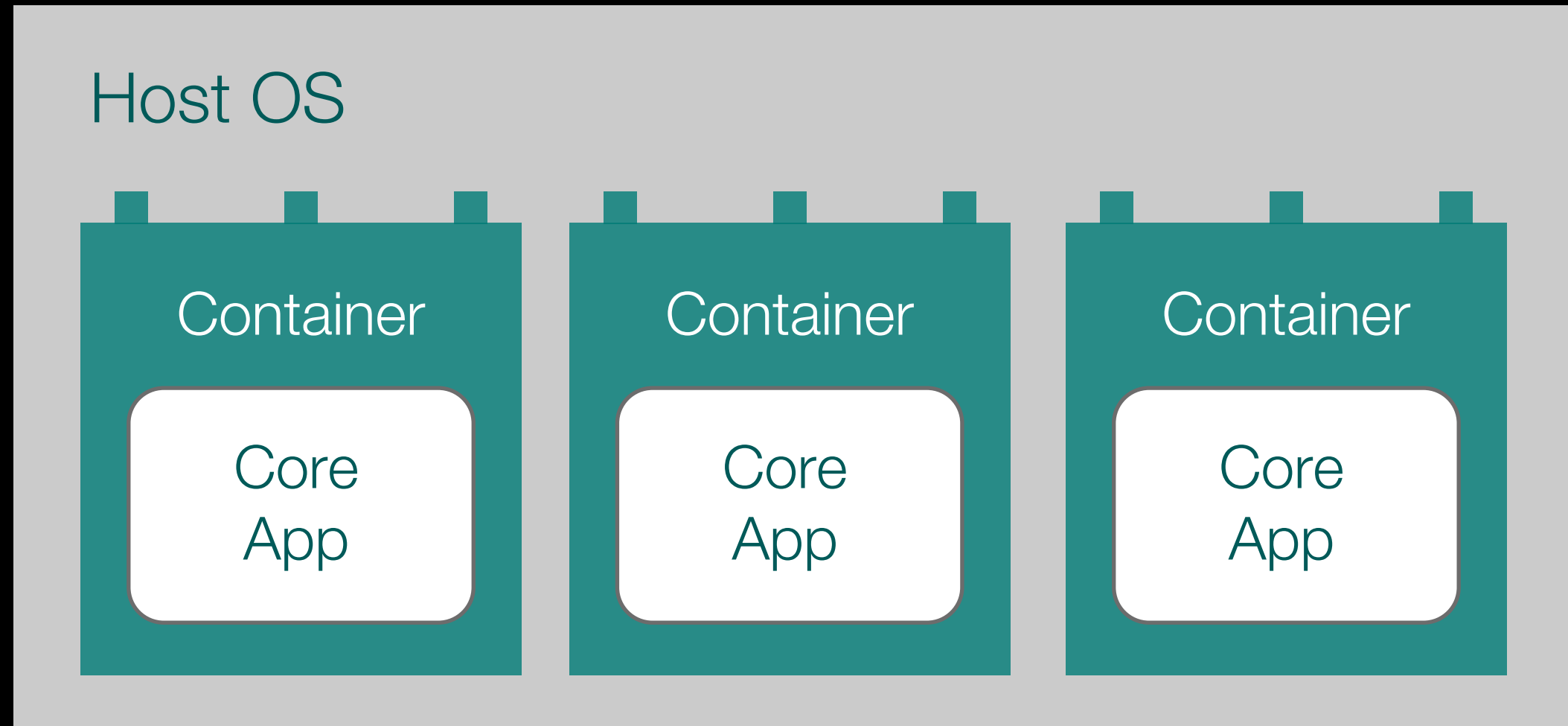
Mercury Client + Custom Monitor Plugins

Docker Plugin@Smart Agent

Monitor Plugin@Smart Agent

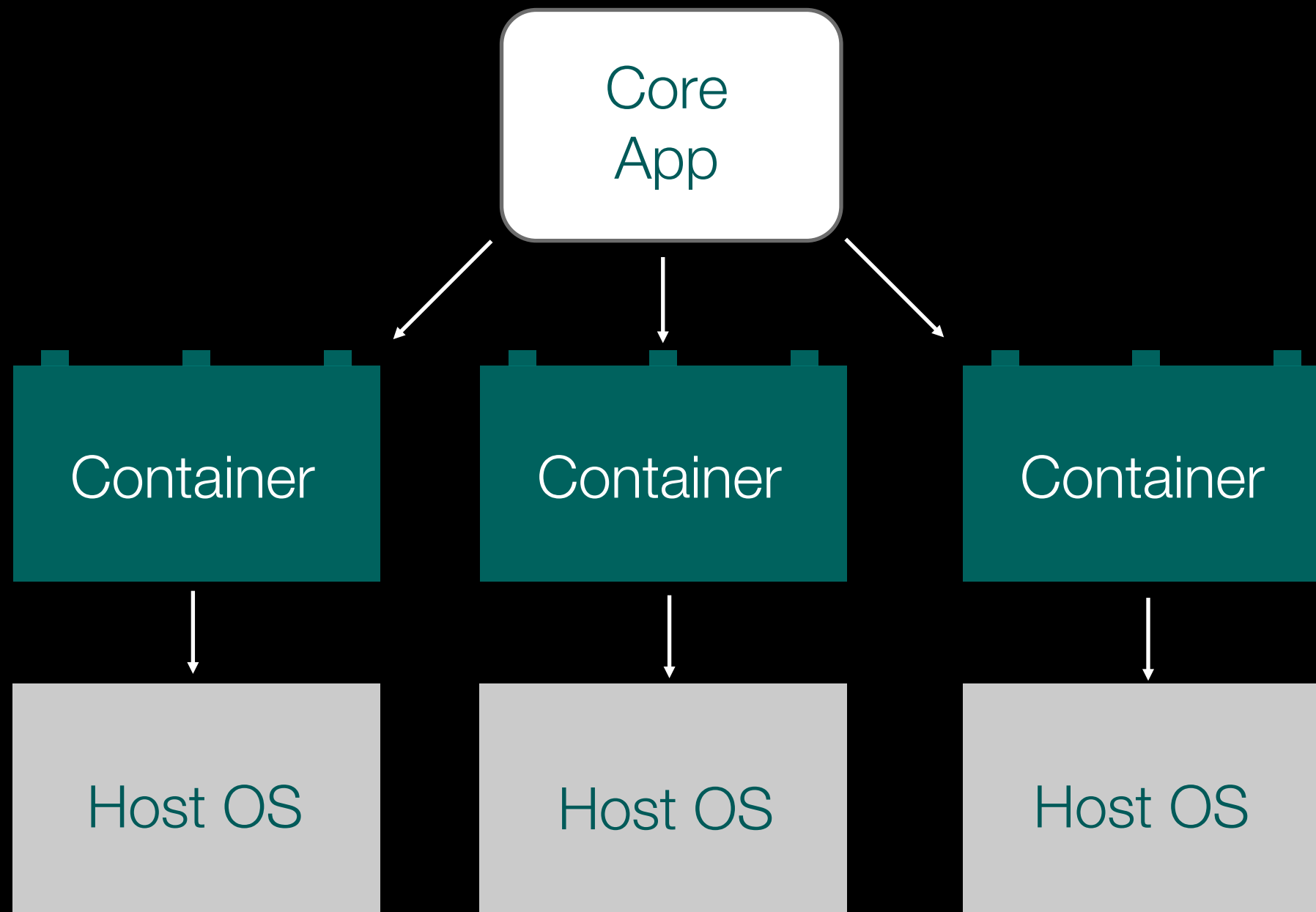
Monitor Plugin@Smart Agent

“Monitor Contexts #1”



Host → Containers → Applications

“Monitor Contexts #2”

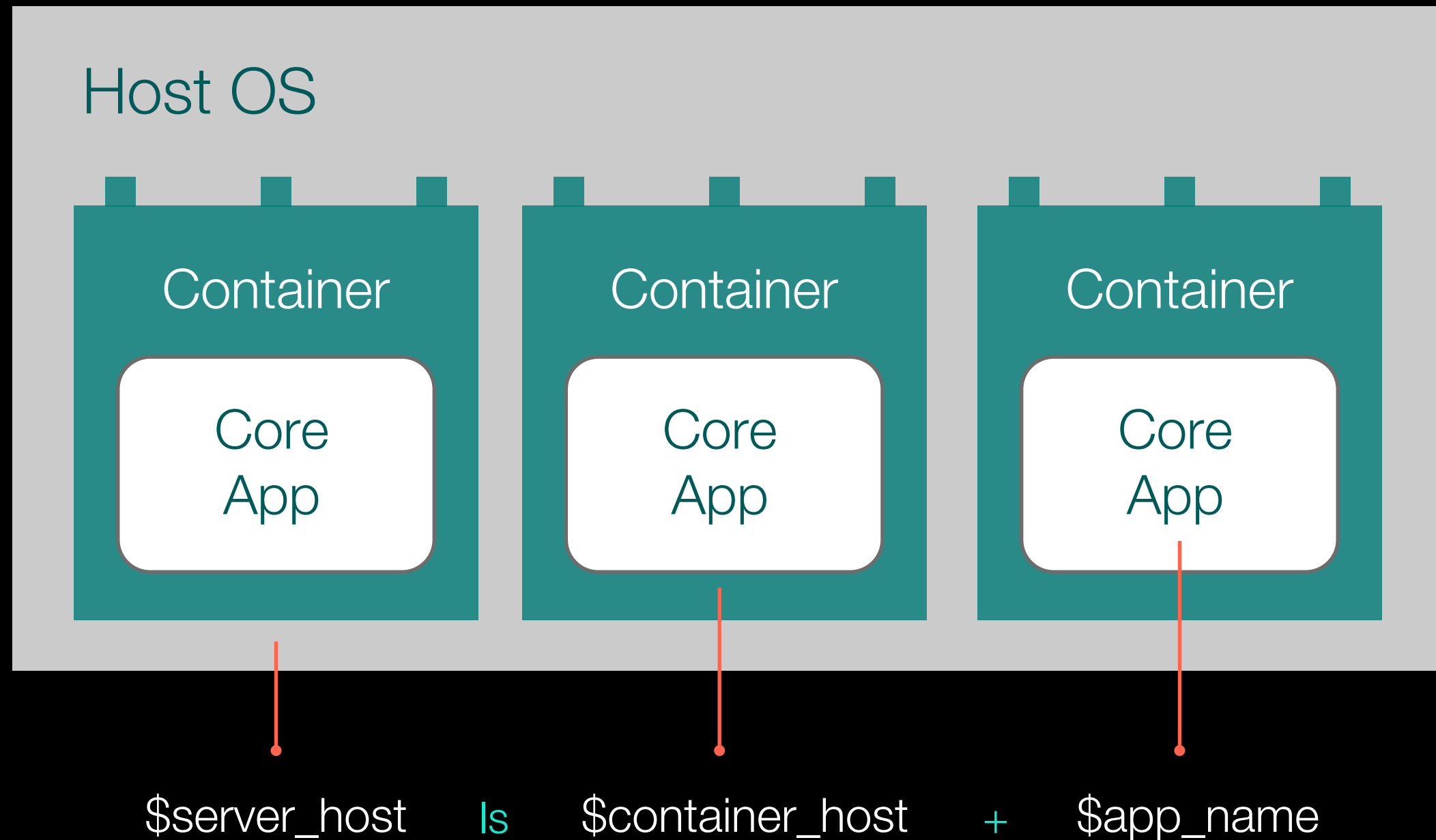


Application —> Containers —> Hosts

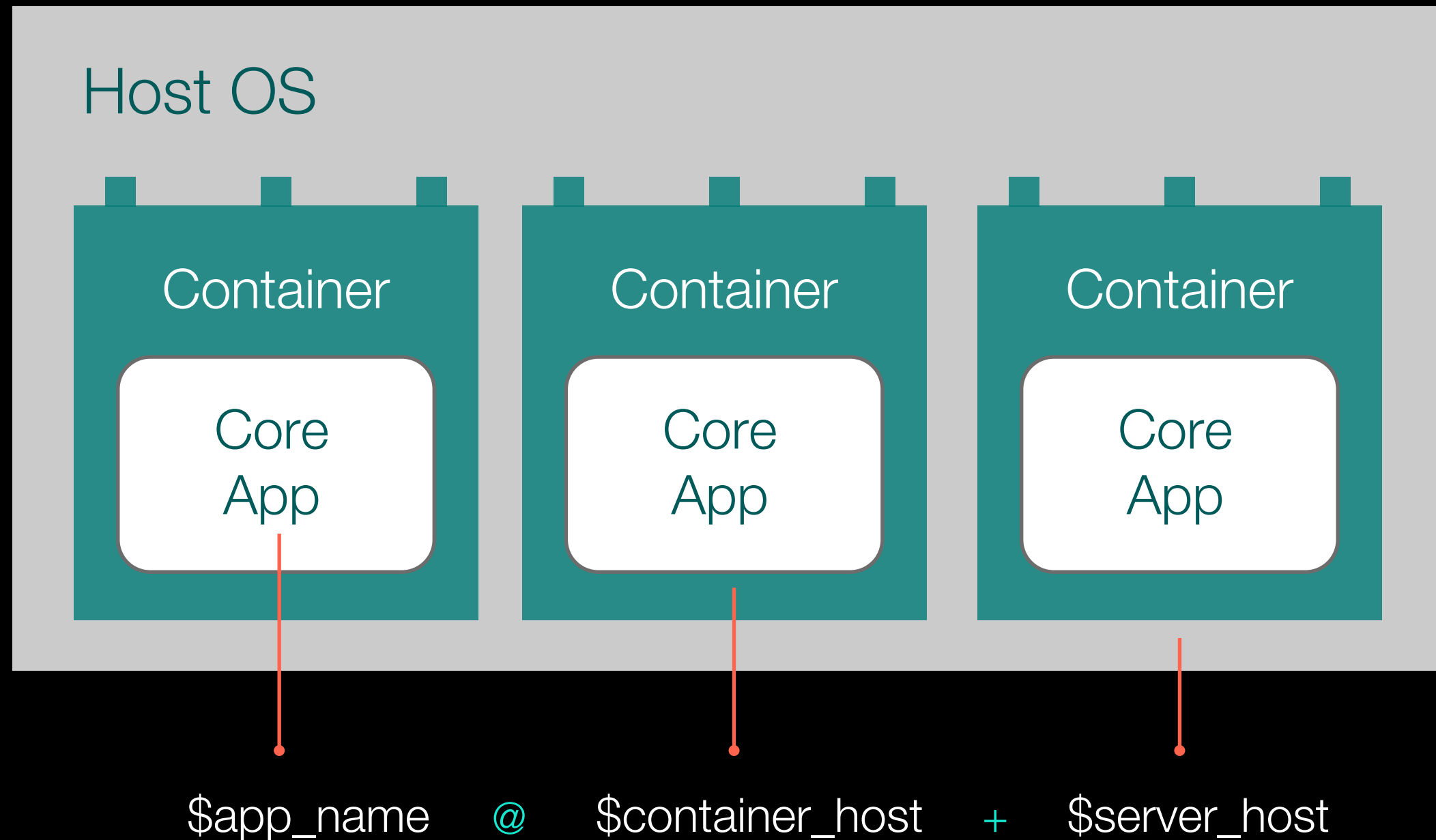


Architecture

“Meta Metrics #1”



“Meta Metrics #2”



“唯品会Metrics规范”

- namespace

- metric

- endpoint

- tags

- timestamp

- doubleValue

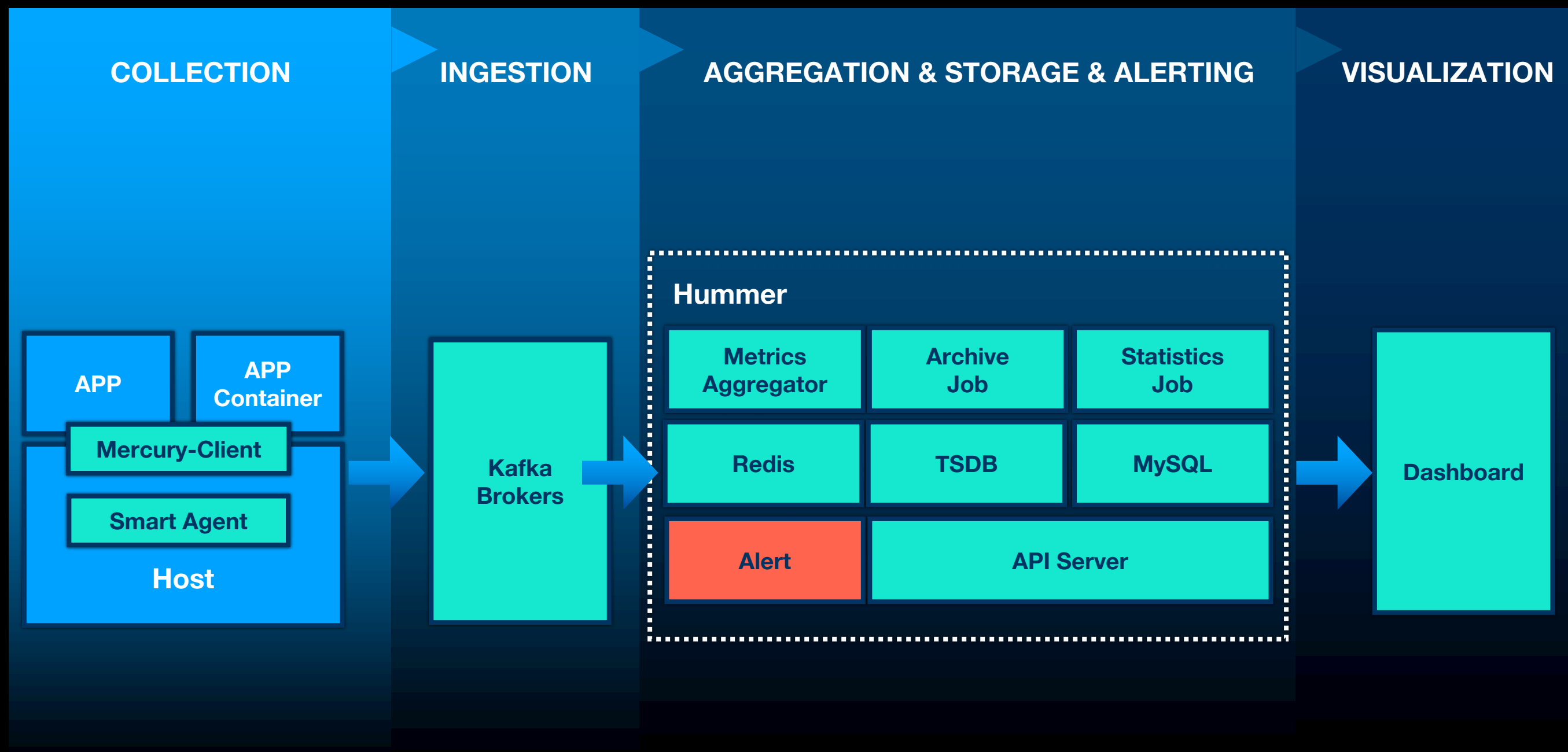
- meta : duration

- meta : counterType

- meta : endpointType

```
"metricName": "inode_total",  
"endpoint": "gd9-mercury-kafka-001",  
"timestamp": 1493806423188,  
"namespace": "ns_os",  
"longValue": 30324487,  
"meta": {  
  "duration": 10,  
  "endpointType": "host",  
  "counterType": "counter"  
}
```

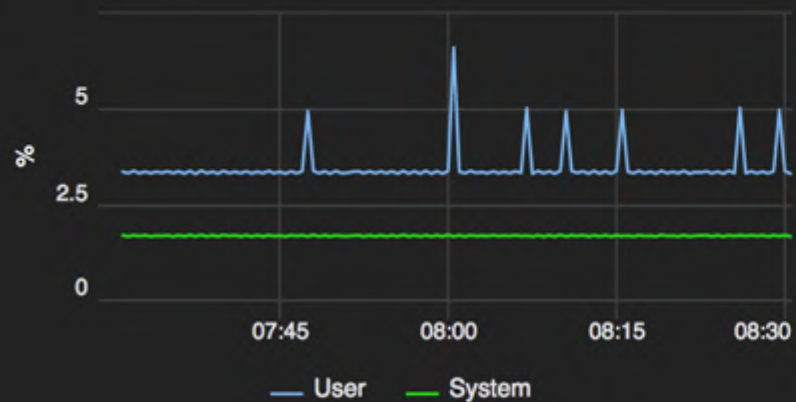
“Hummer Architecture”



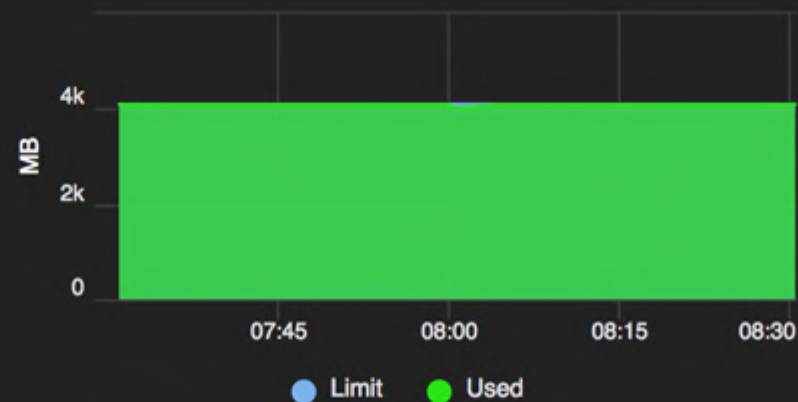
“Docker Metrics”



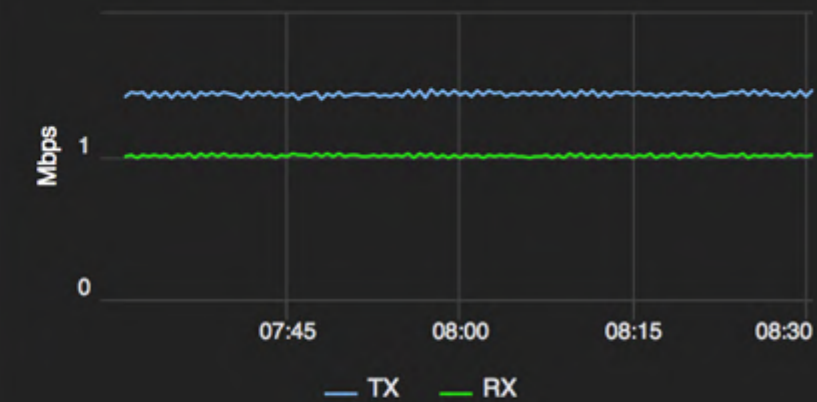
CPU Usage



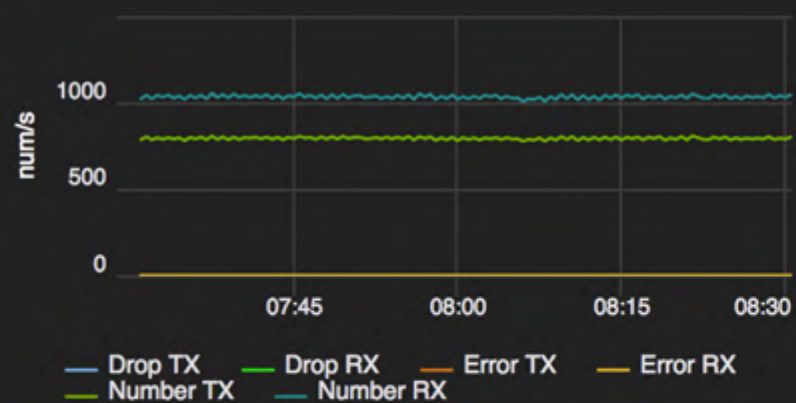
Memory



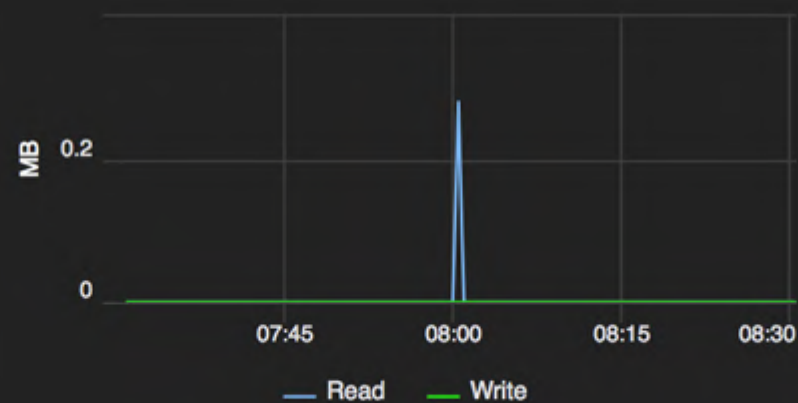
Network Traffic



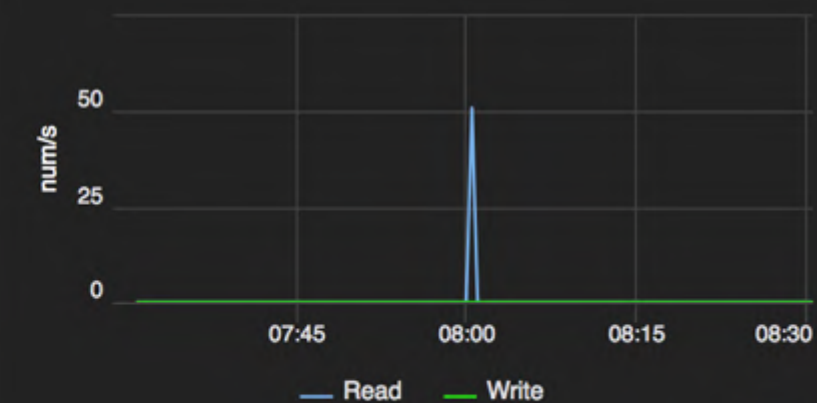
Network Packet



Disk IO Traffic



Disk IO Count



更多

“Docker Pseudo-Files”

Docker CPU

```
/sys/fs/cgroup/cpuacct/docker/$container_id/
```

Docker Memory

```
/sys/fs/cgroup/memory/docker/$container_id/
```

Docker DiskIO

```
/sys/fs/cgroup/blkio/docker/$container_id/
```

Docker Network

```
/proc/$container_pid/net/dev
```

DEMO

Thanks

Q&A

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联系人微信：**zsdwyq**



预告：ArchData峰会（北京）精彩内容抢先看！9月24日

关键词：AI、区块链、大数据、智能运维、深度学习！！



09:00-09:50	史凯	AI驱动的企业创新架构	13:30-14:20	吴金龙	深度学习与智能对话机器人
09:50-10:40	李艳鹏	区块链原理解析	14:20-15:10	裴丹	智能运维中的AI问题
10:40-10:50	短歇		15:10-15:20	短歇	
10:50-11:40	王东	微服务下的APM全链路监控	15:20-16:10	涂威威	Towards AI for Everyone
13:30-14:20	严静	漏斗转换运算的优化过程	16:10-16:50	余军	分布式数据库在金融行业的创新实践
			16:50-18:00	何文斌	主题待定



报名链接：<http://t.cn/RN22yfP>