

Uila (Wee-La)

全方位虚拟数据中心性能分析系统

黄柳堃





1 产品介绍

2 案例分享

3 公司介绍

/01 产品介绍

Product presentation

01 产品介绍

现阶段数据中心的挑战

question 到底是谁的问题?

部门之间互相推诿卸责



VS



快速定位互通合作提高效率

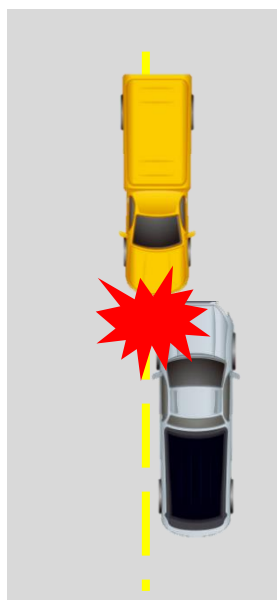


01 产品介绍

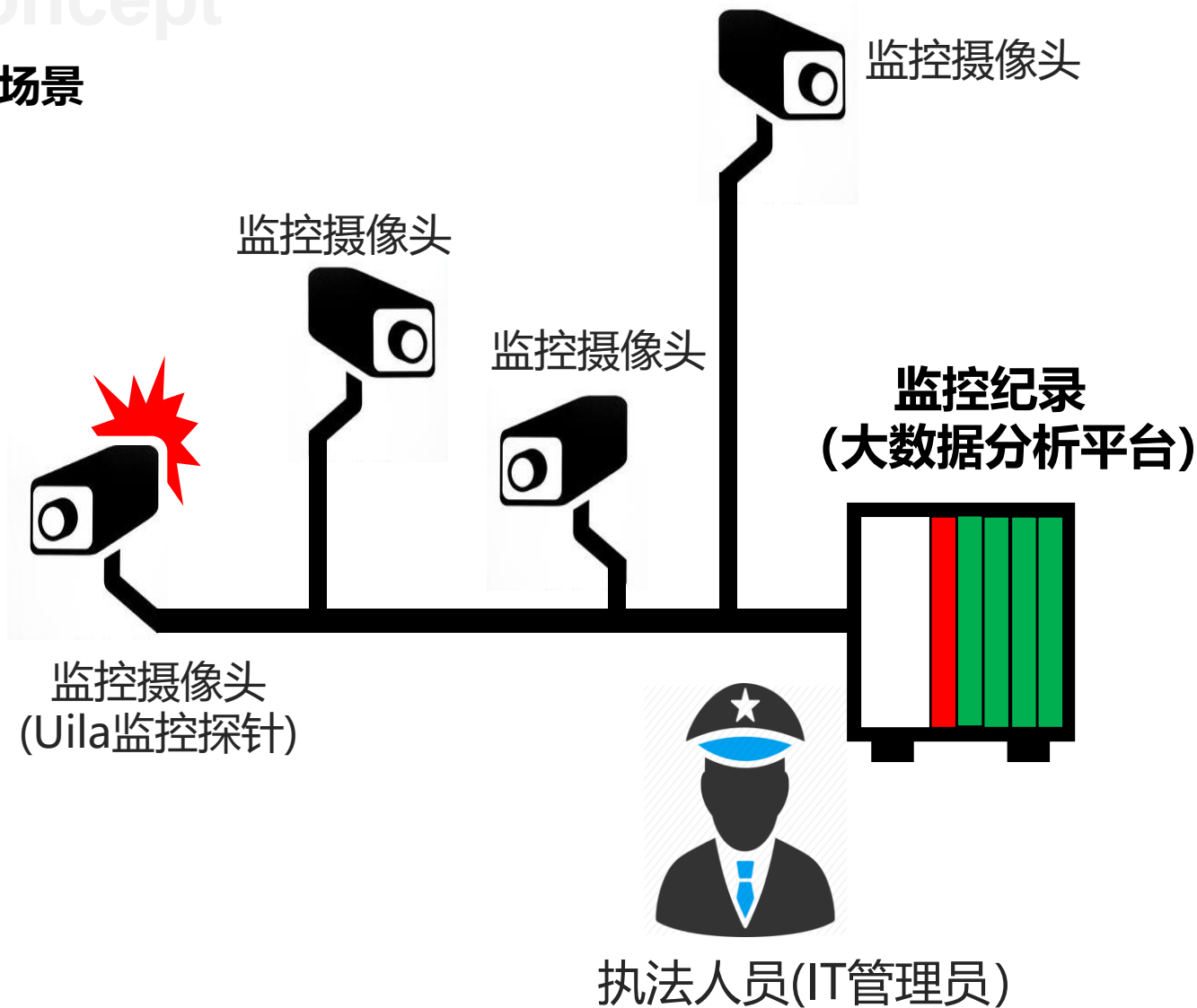
Product concept

产品概念

现实的场景和Uila的场景



事故发生
(业务缓慢)



01 产品介绍

Uila framework

Uila架构

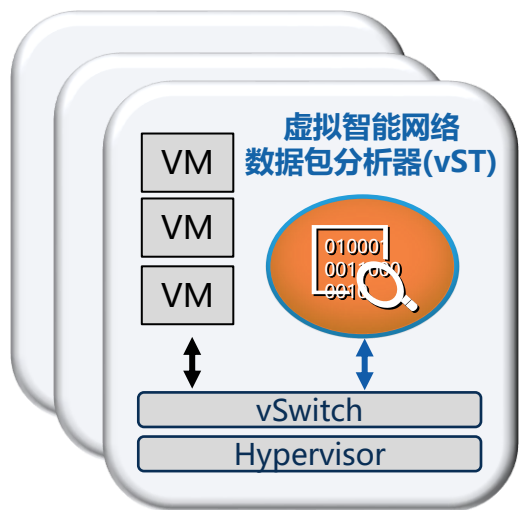


网页 UI



大数据
管理与分析系统

ESXI服务器



应用程序与
网络性能数据



整合后的应用程序和基础设施元数据 (SSL)

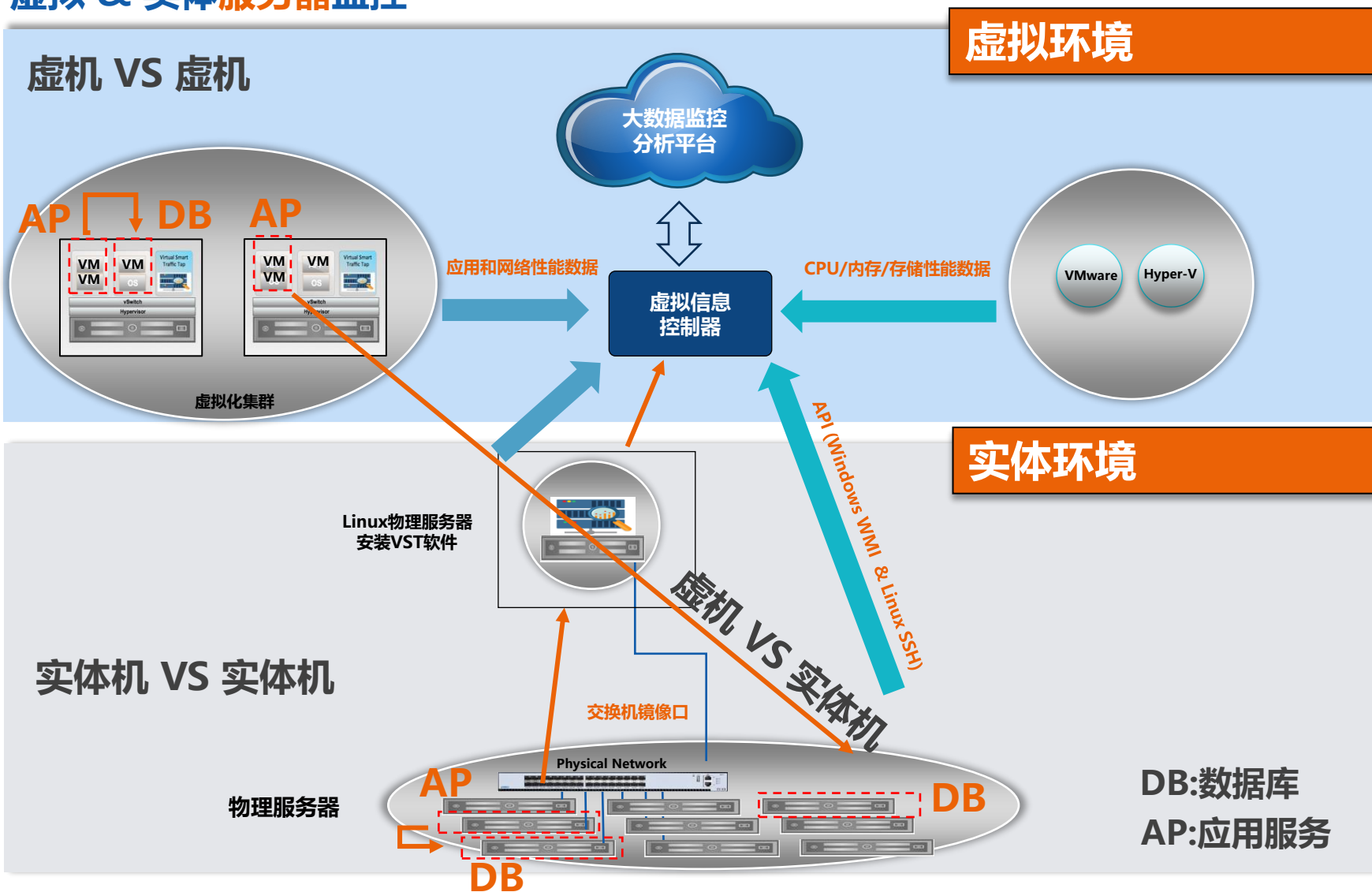
虚拟基础架构
的性能数据



01 产品介绍

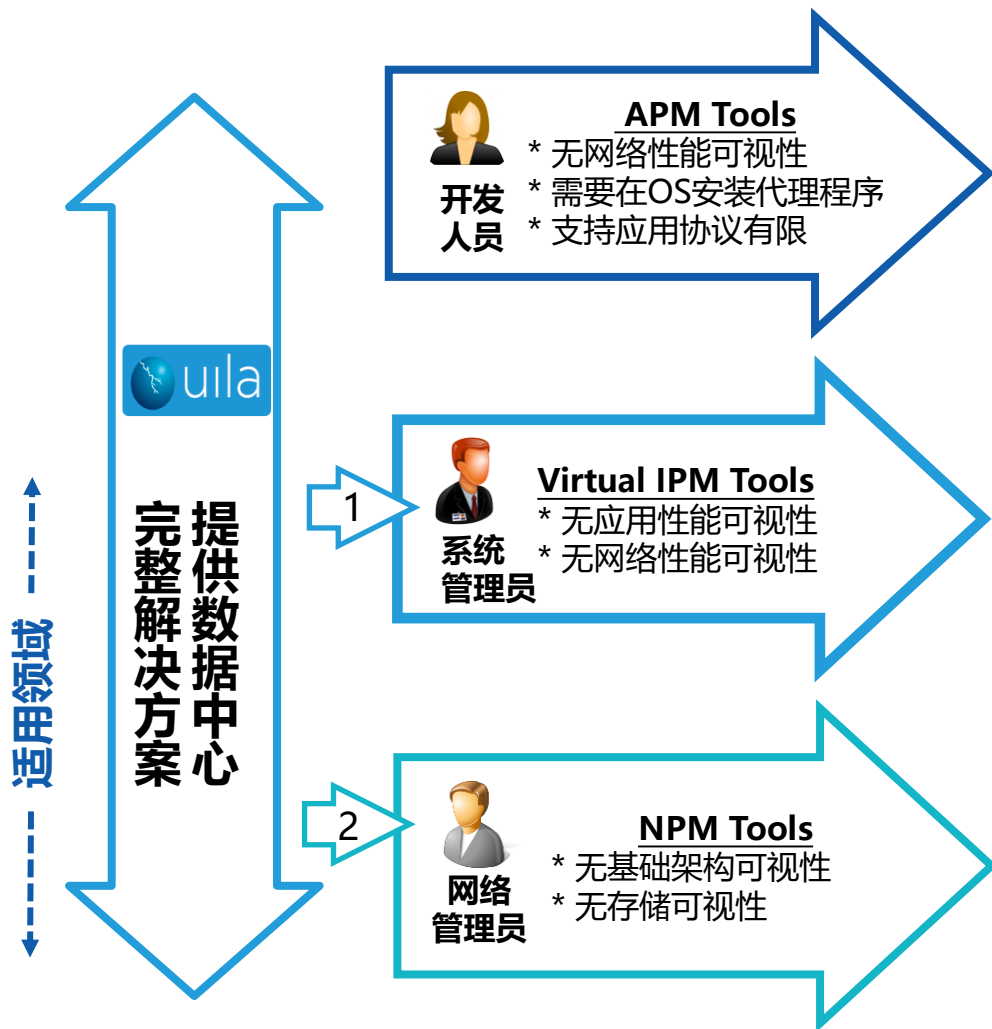
server

虚拟 & 实体服务器监控



01 产品介绍

Monitoring system 既有的监控系统面临的问题...



APM Tools

- * 无网络性能可视性
- * 需要在OS安装代理程序
- * 支持应用协议有限

开发人员



Virtual IPM Tools

- * 无应用性能可视性
- * 无网络性能可视性

系统管理员



NPM Tools

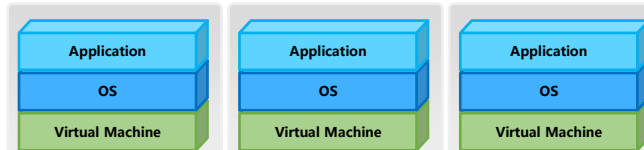
- * 无基础架构可视性
- * 无存储可视性

网络管理员

网络性能?



应用程序



应用性能?



虚拟化基础架构



虚拟化性能?



实体基础架构



主面板

--大数据回溯30-60天

实时 12/23/2018 03:54 PM - 12/23/2018 04:53 PM

Production

应用程序效能
CPU健康
内存健康
存储运行状况
网络健康

03 PM 06 PM 09 PM Mon 24 03 AM 06 AM 09 AM 12 PM

应用程序效能

最差效能(依组) 集群: 88, 主机: 88, 虚拟机: 17

Oracle_11g-n2 (CPU: 4 x 1.81 GHz Memory: 2 GB)

| 健康分数 | 应用程序响应时间 | 交易分 | 流量秒 | 包秒 |
|------|----------|-----|---------|----|
| 17 | 377 ms | 0 | 8.45 KB | 55 |

| 提供服务 | 应用程序响应时间 | 交易分 | 流量/秒 | 包/秒 |
|-------|----------|-----|---------|-----|
| ssh | 6 ms | 40 | 876 B | 3 |
| mysql | 402 ms | 591 | 7.57 KB | 51 |
| icmp | 0 ms | 1 | 7 B | 0 |

Oracle_11g-n2的平均mysql响应时间为404毫秒。

网络健康

最差效能(依组) 集群: 0, 主机: 0, 虚拟机: 29

流量速率: 1.16 MB/秒

存储运行状况

最差效能(依组) 数据存储: 15, 主机: 15, 虚拟硬盘: 14

硬盘IOPS: 2118/秒

CPU健康

最差效能(依组) 集群: 100, 主机: 98, 虚拟机: 28

CPU使用率: 40.52%

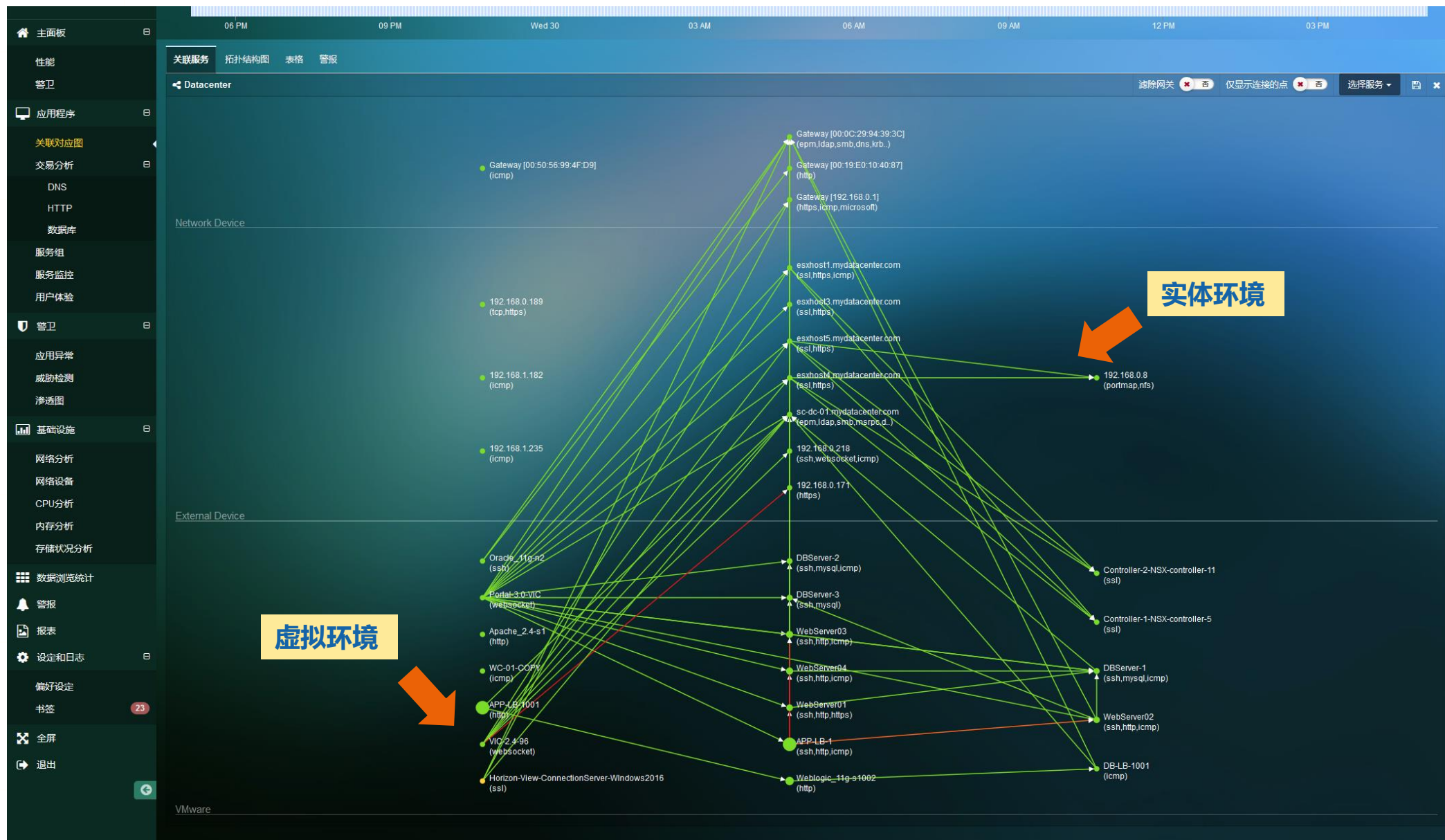
内存健康

最差效能(依组) 集群: 43, 主机: 35, 虚拟机: 31

内存使用率: 9.96%

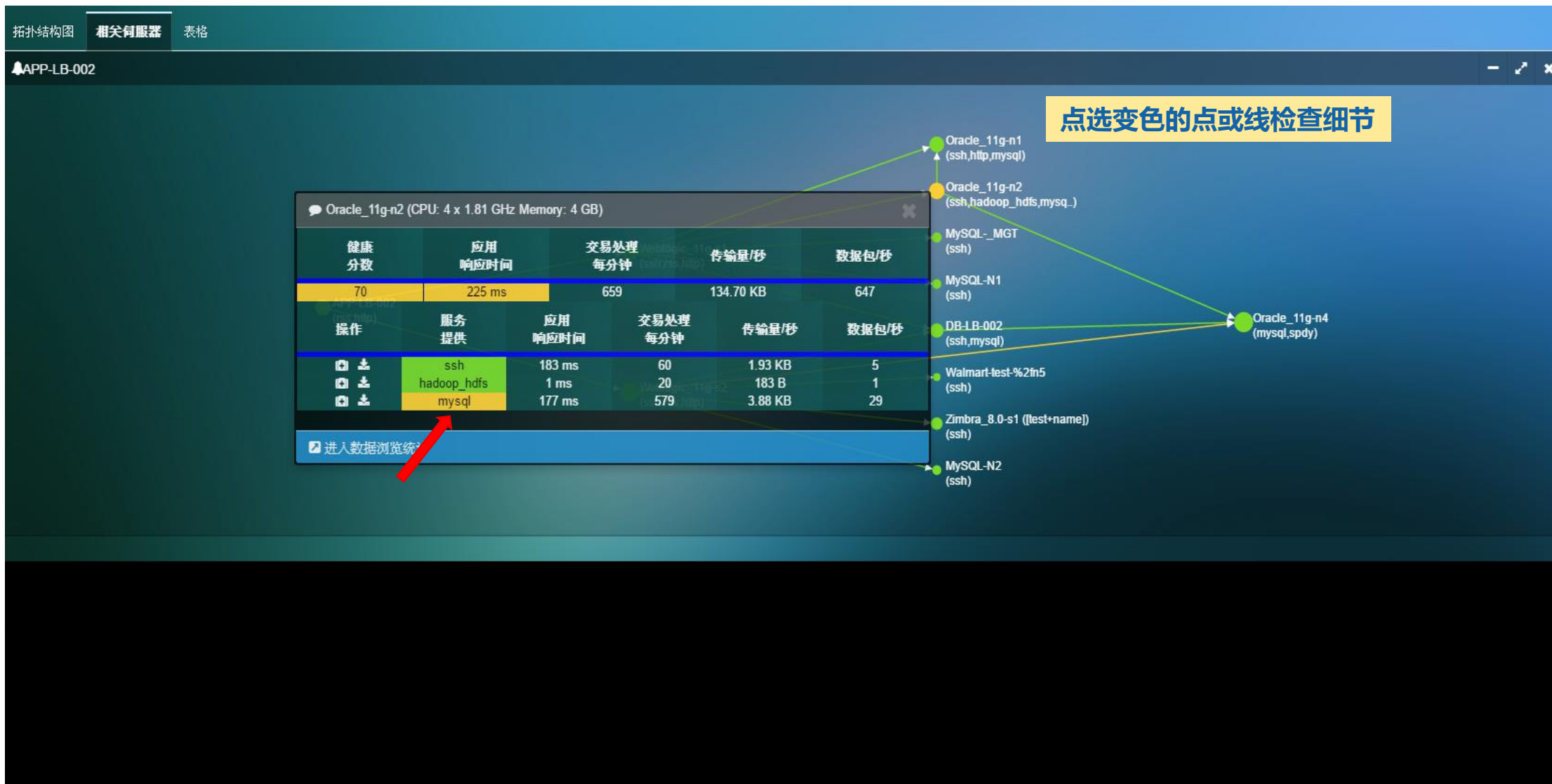
服务拓扑

--自动关联虚实结合



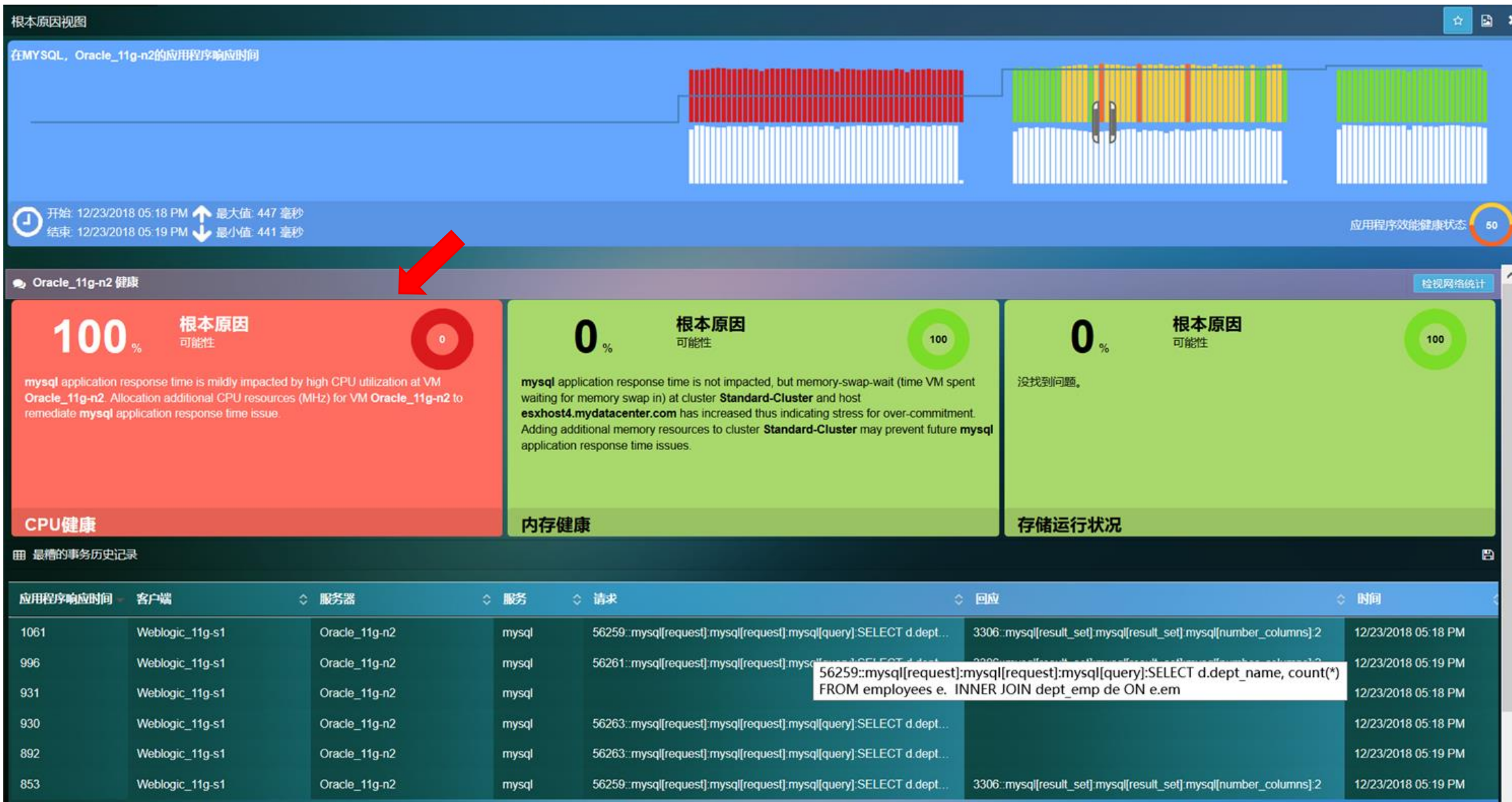
故障分析

--Mysql服务出现异常



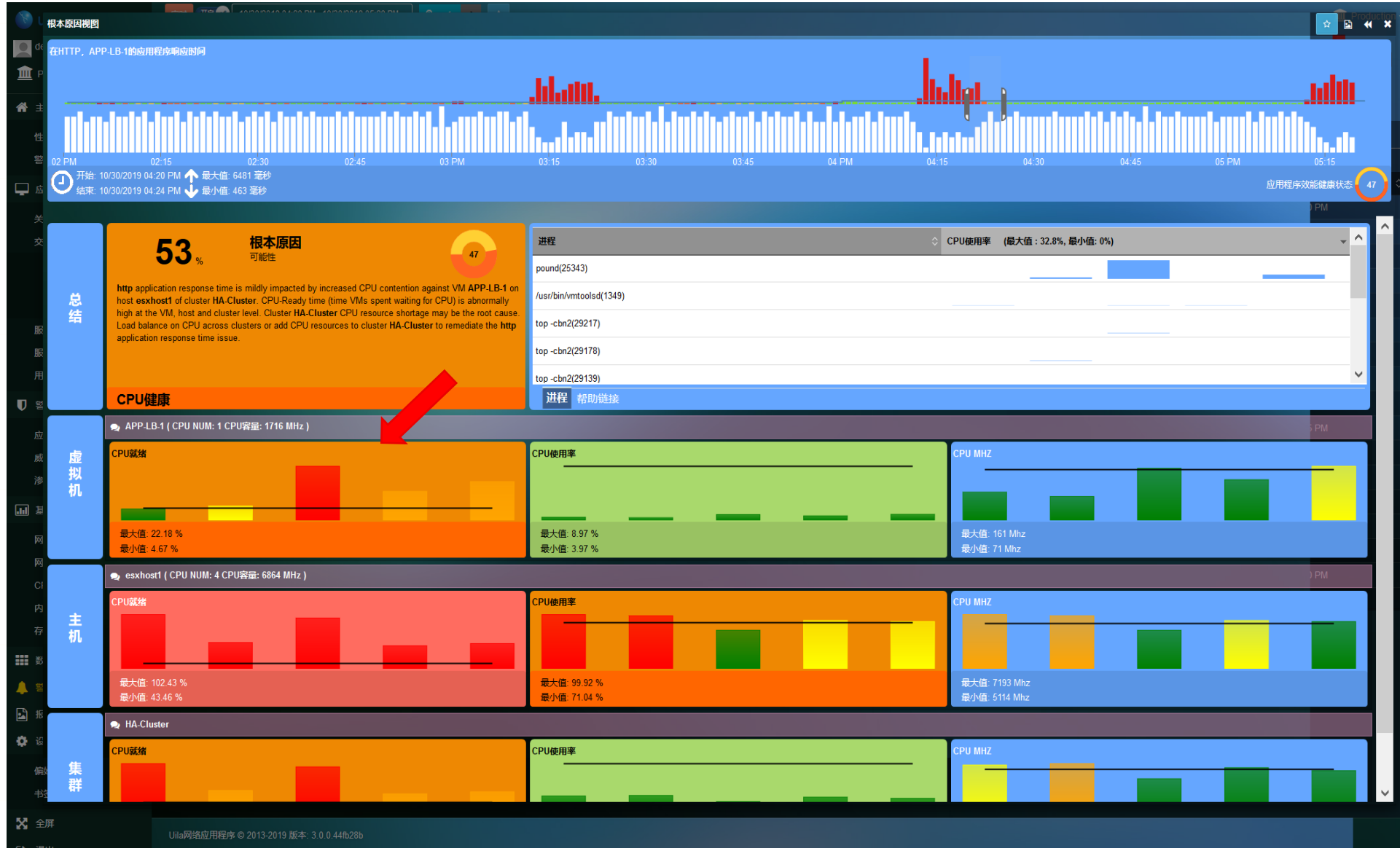
根本原因视图

--故障自动分析



根本原因视图

--CPU性能统计



根本原因视图

--最糟糕交易记录



匯出CSV

--交易信息留存

Oracle_11g-n4 worst transactions--20180318152726

常用 插入 版面配置 公式 資料 檢閱 檢視

新細明體 (本文) 12 A A = = = 自動換行 通用格式 設定格式化的條件 格式化為表格 儲存格樣式 插入 刪除 格式 排序與篩選

12 fx 36271::mysql[request]:mysql[query]:SELECT c FROM sbtest51 WHERE id BETWEEN 39877 AND 39877+11999 ORDER BY c

| | A | B | C | D | E | F | G | H | I | J | K |
|----|---------------------------|-----------------|--------------|-------------|---------------|--------------|-------------|---------|---|--|------|
| 1 | Application Response Time | Client | Client IP | Client Port | Server | Server IP | Server Port | Service | Request | Reply | Time |
| 2 | 35418 | Weblogic_11g-s2 | 192.168.0.28 | 36271 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36271::mysql[request]:mysql[query]:SELECT c FROM sbtest51 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 3 | 420 | Weblogic_11g-s2 | 192.168.0.28 | 36272 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36272::mysql[request]:mysql[query]:SELECT c FROM sbtest51 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 4 | 423 | Weblogic_11g-s2 | 192.168.0.28 | 36272 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36272::mysql[request]:mysql[query]:SELECT c FROM sbtest51 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 5 | 53536 | Weblogic_11g-s2 | 192.168.0.28 | 36272 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36272::mysql[request]:mysql[query]:SELECT c FROM sbtest51 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 6 | 507 | Weblogic_11g-s2 | 192.168.0.28 | 36272 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36272::mysql[request]:mysql[query]:SELECT c FROM sbtest51 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 7 | 6111 | Weblogic_11g-s2 | 192.168.0.28 | 36274 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36274::mysql[request]:mysql[query]:SELECT c FROM sbtest31 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 8 | 387 | Weblogic_11g-s2 | 192.168.0.28 | 36274 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36274::mysql[request]:mysql[query]:SELECT c FROM sbtest31 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 9 | 434 | Weblogic_11g-s2 | 192.168.0.28 | 36274 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36274::mysql[request]:mysql[query]:SELECT c FROM sbtest31 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 10 | 418 | Weblogic_11g-s2 | 192.168.0.28 | 36275 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36275::mysql[request]:mysql[query]:SELECT c FROM sbtest64 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 11 | 34412 | Weblogic_11g-s2 | 192.168.0.28 | 36276 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36276::mysql[request]:mysql[query]:SELECT c FROM sbtest1 WHERE id E | 3306::mysql[result_set]:mysql[number_co##### | |
| 12 | 480 | Weblogic_11g-s2 | 192.168.0.28 | 36276 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36276::mysql[request]:mysql[query]:SELECT c FROM sbtest1 WHERE id E | 3306::mysql[result_set]:mysql[number_co##### | |
| 13 | 404 | Weblogic_11g-s2 | 192.168.0.28 | 36277 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36277::mysql[request]:mysql[query]:SELECT c FROM sbtest23 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 14 | 443 | Weblogic_11g-s2 | 192.168.0.28 | 36278 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36278::mysql[request]:mysql[query]:SELECT c FROM sbtest8 WHERE id E | 3306::mysql[result_set]:mysql[number_co##### | |
| 15 | 467 | Weblogic_11g-s2 | 192.168.0.28 | 36278 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36278::mysql[request]:mysql[query]:SELECT c FROM sbtest8 WHERE id E | 3306::mysql[result_set]:mysql[number_co##### | |
| 16 | 416 | Weblogic_11g-s2 | 192.168.0.28 | 36279 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36279::mysql[request]:mysql[query]:SELECT c FROM sbtest28 WHERE id | 3306::mysql[result_set]:mysql[number_co##### | |
| 17 | 483 | Weblogic_11g-s2 | 192.168.0.28 | 36280 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36280::mysql[request]:mysql[query]:SELECT c FROM sbtest7 WHERE id E | 3306::mysql[result_set]:mysql[number_co##### | |
| 18 | 425 | Weblogic_11g-s2 | 192.168.0.28 | 36280 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36280::mysql[request]:mysql[query]:SELECT c FROM sbtest7 WHERE id E | 3306::mysql[result_set]:mysql[number_co##### | |
| 19 | 5607 | Weblogic_11g-s2 | 192.168.0.28 | 36280 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36280::mysql[request]:mysql[query]:SELECT c FROM sbtest7 WHERE id E | 3306::mysql[result_set]:mysql[number_co##### | |
| 20 | 399 | Weblogic_11g-s2 | 192.168.0.28 | 36281 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36281::mysql[request]:mysql[query]:SELECT c FROM sbtest1 WHERE id E | 3306::mysql[result_set]:mysql[number_co##### | |
| 21 | 440 | Weblogic_11g-s2 | 192.168.0.28 | 36281 | Oracle_11g-n4 | 192.168.0.37 | 3306 | mysql | 36281::mysql[request]:mysql[query]:SELECT c FROM sbtest1 WHERE id E | 3306::mysql[result_set]:mysql[number_co##### | |

实时包捕获

--抓取感兴趣的流量

The screenshot displays the Uila monitoring interface. At the top, there is a real-time status bar with a time range of 05/15/2020 08:07 AM to 09:07 AM. The main dashboard is divided into several panels: '应用程序性能' (Application Performance), '网络健康' (Network Health), and 'CPU健康' (CPU Health). A central pop-up window for 'UMAS-3.3 (CPU: 2 x 2.29 GHz 内存: 8 GB)' is open, showing a health score of 97. A red arrow points to the '启动捕获' (Start Capture) button in the pop-up. Below this button is a table of services being monitored.

| 健康分数 | 应用程序响应时间 | 交易/m | 流量/s | 包/s |
|------|----------|------|-------|-----|
| 97 | 236 ms | 5 | 769 B | N/A |

| 提供服务 | 应用程序响应时间 | 交易/m | 流量/s | 包/s |
|------|----------|------|-------|-----|
| http | 173 ms | 4 | 745 B | 0 |
| tcp | 479 ms | 1 | 23 B | 0 |

Below the table, there are several checkboxes for actions: '添加到关联服务', '放大', '到数据浏览统计页面', '到统计地图页面', '添加到服务组', '启动捕获', and '属性'. The '启动捕获' checkbox is checked. The background dashboard shows various performance metrics and health indicators for different components like '数据中心', '集群', '主机', and '虚拟机'.

存储使用量

--容量信息一手掌握



网络分析

--网络性能与流量直观展现



网络会话

--会话性能与流量统计

| Filter VM A | | Filter VM B | | Filter | | | | | | | |
|--|---------------------------|---------------|-----------|----------|--------|-------------|---------|---------|-------------|-----------------|--|
| VM A | VM B | Total Traffic | A → B | B → A | RTT | Fatal Retry | Service | ART | Transaction | Service Traffic | |
| Weblogic_11g-s2 | Oracle_11g-n4 | 40.05 GB | 582.70 MB | 39.49 GB | 281 ms | 0/0 | tcp | 1814 ms | 1.95 K | 40.05 GB | |
| Weblogic_11g-s2 | Oracle_11g-n3 | 223.15 MB | 140.88 MB | 82.27 MB | 3 ms | 0/0 | tcp | 48 ms | 104 | 9.08 MB | |
| | | | | | | | mysql | 60 ms | 5.52 K | 214.07 MB | |
| wpserver | dbserver | 112.22 MB | 92.90 MB | 19.32 MB | 0 ms | 0/0 | tcp | N/A | N/A | 24.74 KB | |
| | | | | | | | mysql | 896 ms | 896 | 112.20 MB | |
| Virtual Information Controller-portal-1.19-ova | vcenter.mydatacenter.com | 71.63 MB | 47.87 MB | 23.75 MB | 0 ms | 0/0 | https | 1285 ms | 181 | 71.63 MB | |
| DEV-UMAS-VIC | vcenter.mydatacenter.com | 70.09 MB | 46.91 MB | 23.18 MB | 0 ms | 0/0 | https | 1291 ms | 176 | 70.09 MB | |
| | | | | | | | tcp | N/A | N/A | 592 B | |
| Weblogic_11g-s1 | Oracle_11g-n2 | 26.54 MB | 13.72 MB | 12.82 MB | 0 ms | 0/0 | tcp | N/A | N/A | 873 B | |
| | | | | | | | ssh | 2 ms | 0 | 19.69 KB | |
| | | | | | | | mysql | 1375 ms | 1.13 K | 26.52 MB | |
| mysqlc1-n1 | SQL_2012-n1 | 23.29 MB | 11.78 MB | 11.51 MB | 50 ms | 0/0 | mysql | 193 ms | 1.02 K | 23.29 MB | |
| vcenter.mydatacenter.com | esxhost1.mydatacenter.com | 22.73 MB | 8.94 MB | 13.79 MB | 2 ms | 0/0 | https | 82 ms | 61 | 21.87 MB | |
| | | | | | | | udp | N/A | N/A | 37.97 KB | |
| | | | | | | | ssl | 40 ms | 0 | 847.04 KB | |
| | | | | | | | tcp | N/A | N/A | 480 B | |
| vcenter.mydatacenter.com | esxhost5.mydatacenter.com | 20.26 MB | 8.36 MB | 11.91 MB | 2 ms | 0/0 | https | 97 ms | 55 | 19.39 MB | |
| | | | | | | | udp | N/A | N/A | 36.49 KB | |
| | | | | | | | ssl | 51 ms | 0 | 854.35 KB | |
| | | | | | | | tcp | N/A | N/A | 264 B | |

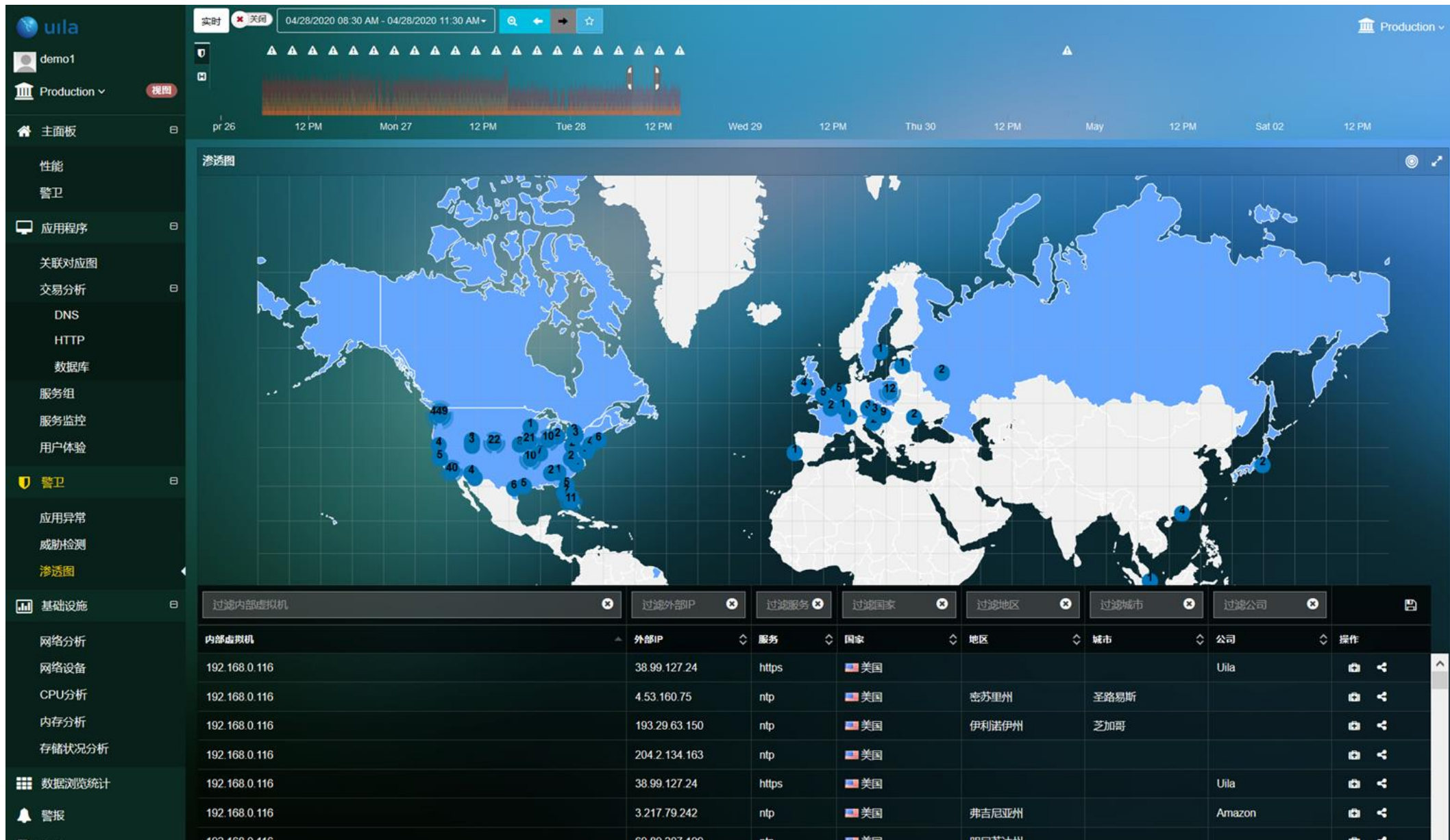
入侵威胁检测

--虚拟化内部IDS



渗透图

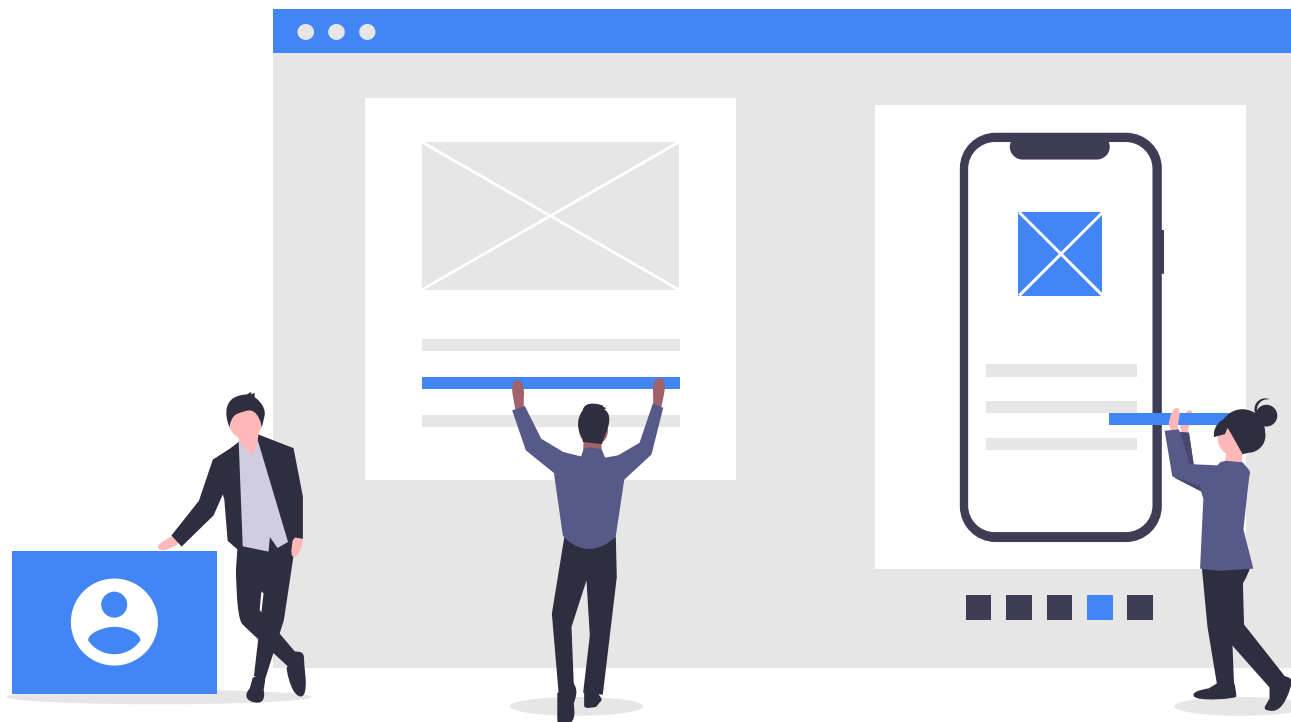
--了解内部IP的出站情况



02 Uila产品介绍

Protocol 应用协议深层分析 支持深层分析的协议

- DNS
- HTTP
- MSSQL
- MYSQL
- ORACLE
- POSTGRESQL



HTTP协议分析

统计所有运行HTTP服务的VM和实体Server

1. Http的查询有GET、POST、HEAD和OTHER四种，这些指的是请求的种类
2. Http的状态有100、200、300、400和500五种，这些指的是Http状态码的种类



HTTP失败交易

--500s服务器错误

Transactions

Table Search Rule

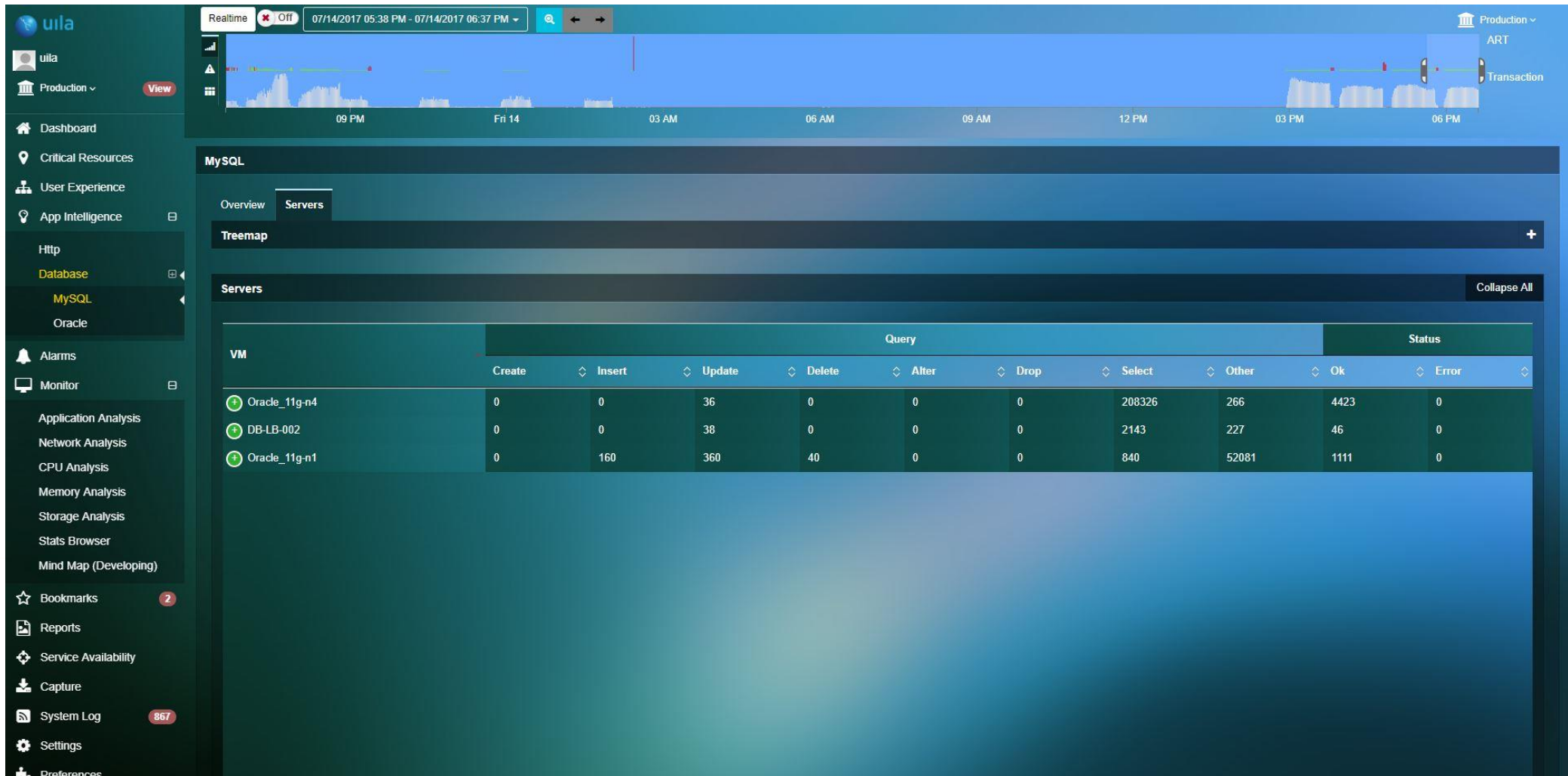
Show 10 entries. Showing 1 to 10 of 19 entries. < Previous > Next

| Client | Server | Service | EURT | ART | Net Delay | Request | Response | Traffic | Retry | Zero Window | Start Time | End Time |
|------------------------------------|------------------------------------|---------|----------|----------|-----------|---|--|---------|-------|-------------|-----------------------------------|-----------------------------------|
| APP-LB-001 (192.168.0.52/42592) | Apache_2.4-s1 (192.168.0.83/80) | http | 3011.103 | 3010.889 | 0.214 | GET /sample-page HTTP/1.0 /sample-page | HTTP/1.0 500 Internal Server Error <!DOCTYPE html>.<html xmlns=_http://www.w3.org/1999/xhtml_>.<head>.<meta http-equiv=_Conte | 190 | 0 | 0 | 05/03/2018 04:44:04.449.777 PM | 05/03/2018 04:44:07.460.666 PM |
| APP-LB-001 (192.168.0.52/42591) | Apache_2.4-s1 (192.168.0.83/80) | http | 3010.862 | 3009.406 | 1.456 | GET /2014/06/13/hello-world HTTP/1.0 /2014/06/13/hello-world | HTTP/1.0 500 Internal Server Error <!DOCTYPE html>.<html xmlns=_http://www.w3.org/1999/xhtml_>.<head>.<meta http-equiv=_Conte | 201 | 0 | 0 | 05/03/2018 04:41:13.550.361 PM | 05/03/2018 04:41:16.559.767 PM |
| APP-LB-001 (192.168.0.52/58683) | Apache_2.4-s1 (192.168.0.83/80) | http | 3010.297 | 3010.089 | 0.208 | GET /2014/06 HTTP/1.0 /2014/06 | HTTP/1.0 500 Internal Server Error <!DOCTYPE html>.<html xmlns=_http://www.w3.org/1999/xhtml_>.<head>.<meta http-equiv=_Conte | 186 | 0 | 0 | 05/03/2018 04:38:22.914.392 PM | 05/03/2018 04:38:25.924.481 PM |
| APP-LB-001 (192.168.0.52/58682) | Apache_2.4-s1 (192.168.0.83/80) | http | 3008.140 | 3007.938 | 0.202 | GET /feed HTTP/1.0 /feed | HTTP/1.0 500 Internal Server Error <!DOCTYPE html>.<html xmlns=_http://www.w3.org/1999/xhtml_>.<head>.<meta http-equiv=_Conte | 183 | 0 | 0 | 05/03/2018 04:35:32.010.320 PM | 05/03/2018 04:35:35.018.258 PM |
| APP- | Apache_2.4 | | | | | | HTTP/1.0 500 Internal Server Error | | | | | |

数据库协议分析

MySQL与Oracle、MSSQL、PostgreSQL目前会呈现的信息种类是一样的，图中的是MySQL的资料

1. 数据库的查询有Create、Insert、Update、Delete、Alter、Drop、Select和Other八种，指的是SQL 命令种类
2. 数据库的状态有OK和Error两种，指的是SQL 命令状态的种类



数据库失败交易

--Mysql失败交易记录

Transactions

Table Search Rule

Showing 10 entries Showing 1 to 10 of 2,262 entries ◀ previous ▶ next

| Client | Server | Service | EURT | ART | Net Delay | Request | Response | Traffic | Retry | Zero Win. | Start Time | End Time |
|-----------------------------------|--------------------------------------|---------|-------|-------|-----------|---|---|---------|-------|-----------|-----------------------------------|-----------------------------------|
| DB-LB-002 (192.168.0.90/44701) | Oracle_11g-n1 (192.168.0.31/3306) | mysql | 0.915 | 0.331 | 0.584 | mysql[request]:mysql[query]:SELECT option_value FROM wp_options WHERE option_name = 'siteurl' | mysql[error_code]:1146 mysql[sqlstate_code]:42S02 mysql[error]:Table 'walmart_web.wp_options' doesn't exist | 892 | 0 | 0 | 01/01/2018 12:47:49.908.131 PM | 01/01/2018 12:47:49.908.462 PM |
| DB-LB-002 (192.168.0.90/44701) | Oracle_11g-n1 (192.168.0.31/3306) | mysql | 0.898 | 0.314 | 0.584 | mysql[request]:mysql[query]:SELECT option_name, option_value FROM wp_options | mysql[error_code]:1146 mysql[sqlstate_code]:42S02 mysql[error]:Table 'walmart_web.wp_options' doesn't exist | 756 | 0 | 0 | 01/01/2018 12:47:49.906.632 PM | 01/01/2018 12:47:49.906.946 PM |
| DB-LB-002 (192.168.0.90/44701) | Oracle_11g-n1 (192.168.0.31/3306) | mysql | 1.064 | 0.480 | 0.584 | mysql[request]:mysql[query]:SELECT option_name, option_value FROM wp_options WHERE autoload = 'yes' | mysql[error_code]:1146 mysql[sqlstate_code]:42S02 mysql[error]:Table 'walmart_web.wp_options' doesn't exist | 637 | 0 | 0 | 01/01/2018 12:47:49.904.836 PM | 01/01/2018 12:47:49.905.316 PM |
| DB-LB-002 (192.168.0.90/44700) | Oracle_11g-n1 (192.168.0.31/3306) | mysql | 0.930 | 0.350 | 0.580 | mysql[request]:mysql[query]:SELECT option_value FROM wp_options WHERE option_name = 'siteurl' | mysql[error_code]:1146 mysql[sqlstate_code]:42S02 mysql[error]:Table 'walmart_web.wp_options' doesn't exist | 892 | 0 | 0 | 01/01/2018 12:47:49.852.315 PM | 01/01/2018 12:47:49.852.665 PM |
| DB-LB-002 (192.168.0.90/44700) | Oracle_11g-n1 (192.168.0.31/3306) | mysql | 1.015 | 0.435 | 0.580 | mysql[request]:mysql[query]:SELECT option_name, option_value FROM wp_options | mysql[error_code]:1146 mysql[sqlstate_code]:42S02 mysql[error]:Table 'walmart_web.wp_options' doesn't exist | 756 | 0 | 0 | 01/01/2018 12:47:49.850.587 PM | 01/01/2018 12:47:49.851.022 PM |
| DB-LB-002 (192.168.0.90/44700) | Oracle_11g-n1 (192.168.0.31/3306) | mysql | | | | mysql[request]:mysql[query]:SELECT | mysql[error_code]:1146 mysql[sqlstate_code]:42S02 | | | | | |

01 Uila产品介绍—报表设定

新建制定报表配置

1 类型 2 实体 3 作业

选择报表类型

- 应用性能
- VM资源使用**
- 主机资源使用
- 服务器性能

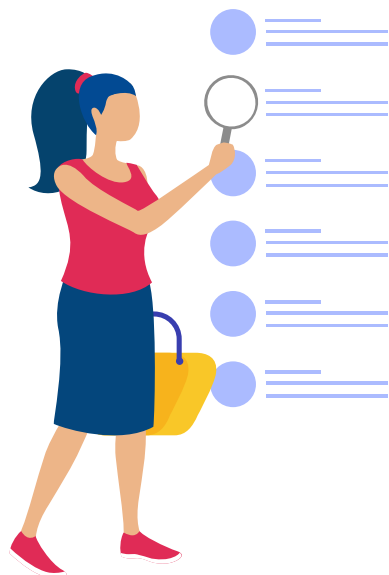
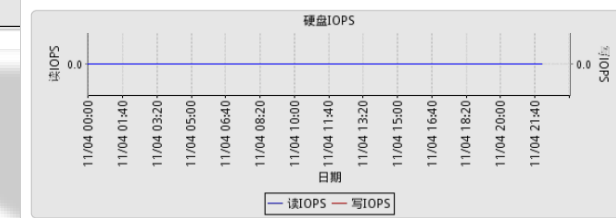
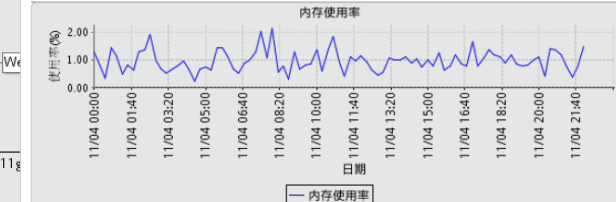
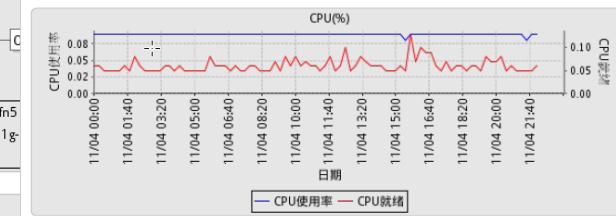
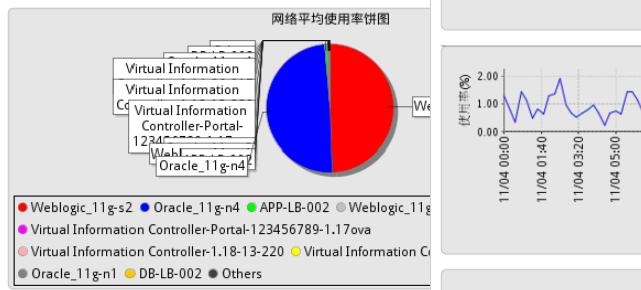
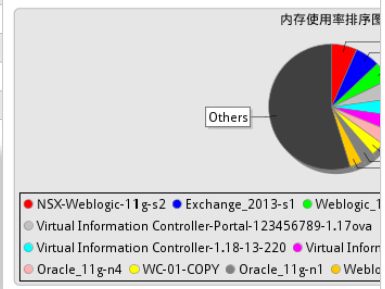
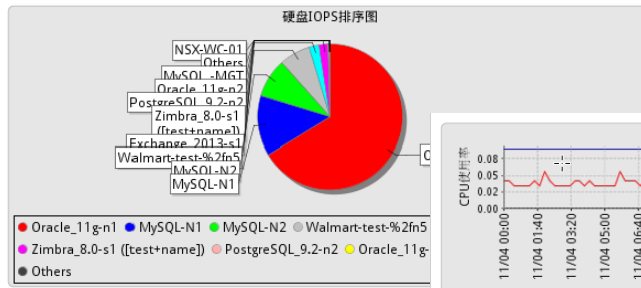
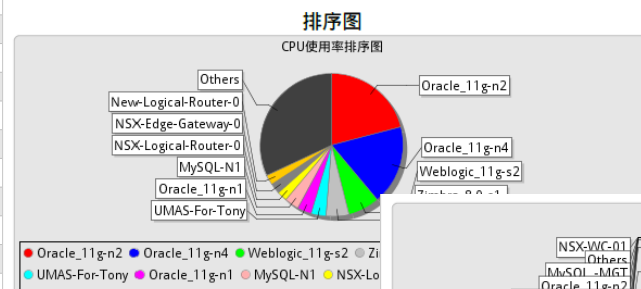
虚拟机资源报表

DataCenter:Production 2016/11/04-2016/11/04 VM Numbers:58

| VM | CPU | 内存 | 硬盘 |
|------------------|-----|----|----|
| Apache_2.4-s1 | ● | ● | ● |
| Apache_2.4-s2 | ● | ● | ● |
| APP-LB-001 | ● | ● | ● |
| APP-LB-002 | ● | ● | ● |
| APP-LB-100 | ● | ● | ● |
| APP-LB-101 | ● | ● | ● |
| APP-LB-102 | ● | ● | ● |
| DB-LB-001 | ● | ● | ● |
| DB-LB-002 | ● | ● | ● |
| DB-LB-101 | ● | ● | ● |
| DB-LB-102 | ● | ● | ● |
| Exchange_2010-s1 | ● | ● | ● |
| Exchange_2013-s1 | ● | ● | ● |
| FS-101 | ● | ● | ● |
| FS-102 | ● | ● | ● |
| MongoDB_2.6-n1 | ● | ● | ● |

确保VM正确的配置

- VM资源太少会影响性能
- VM超配太多会浪费资源

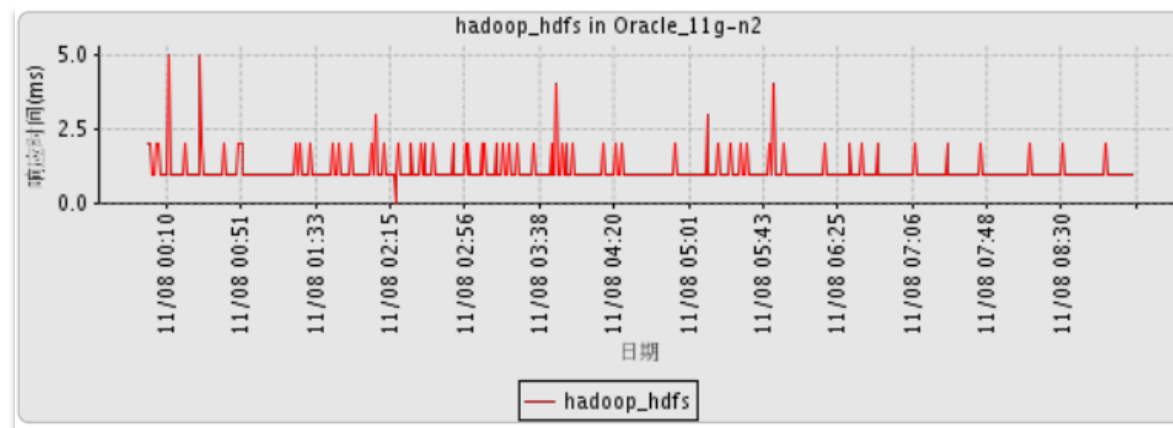
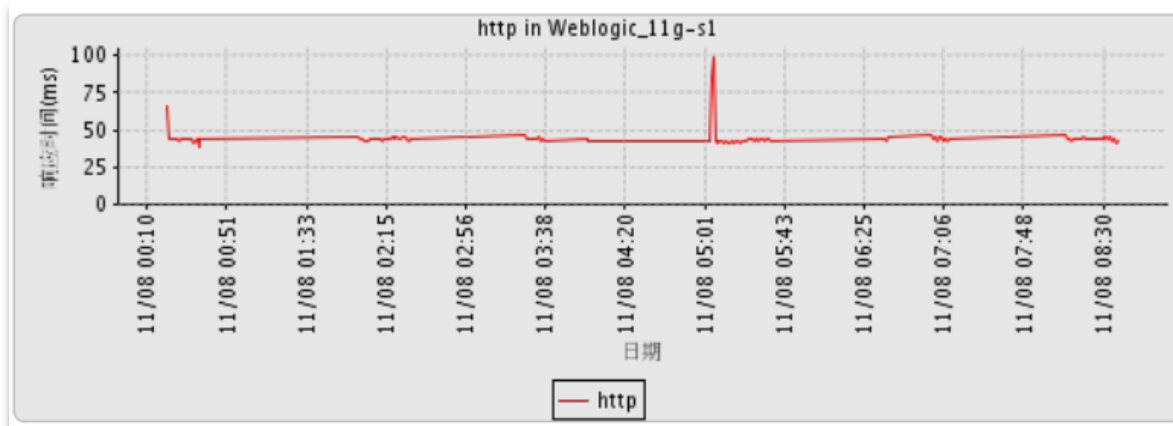


01 Uila产品介绍—报表设定

Report 应用服务性能报告



辨识数据中心应用程序及服务器响应时间趋势及异常状况



01 Uila产品介绍—报表设定

report 资源超配状况报告

Resources Provisioning Summary

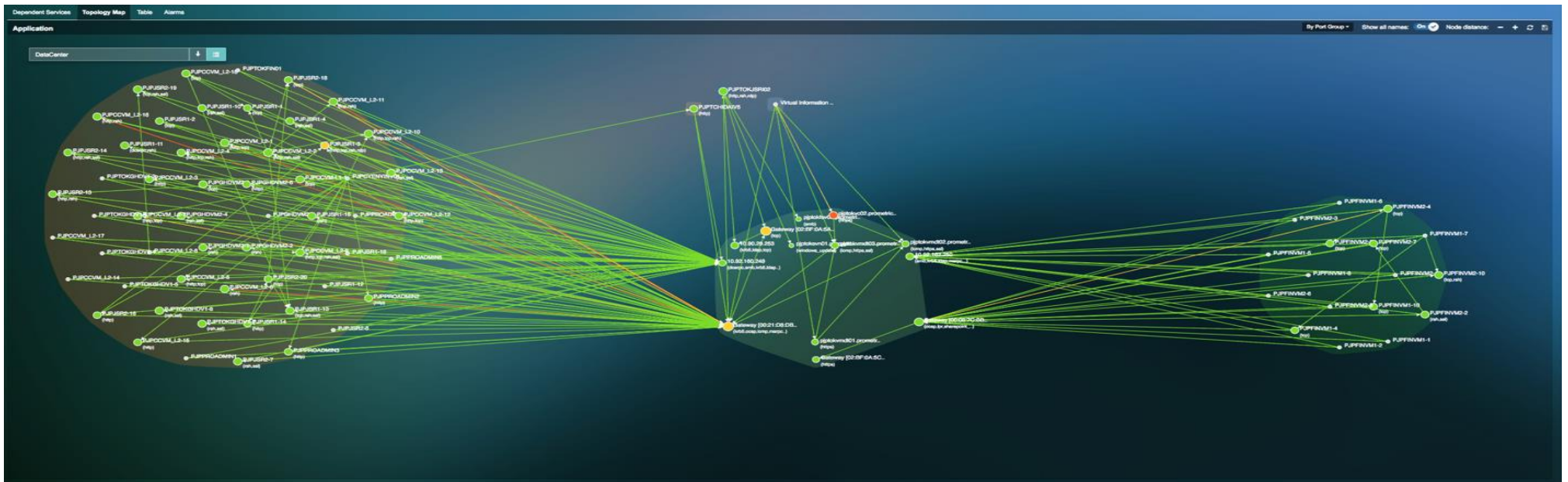
| VM Name | CPU | | | | | | Memory | | | |
|------------------------|----------------|---------|--------------|---------------|----------------------|--------------------|---------------|--------------|---------------|--------------------|
| | Capacity (MHz) | core(s) | Avg Usage(%) | Peak Usage(%) | Top 10% Peaks Avg(%) | O/U Provision Rec. | Capacity (MB) | Avg Usage(%) | Peak Usage(%) | O/U Provision Rec. |
| DNS1 | 9664 | 4 | 3.6 | 5.1 | 4.2 | -3 cores | 8192 | 4.3 | 6.8 | -4096MB |
| DNS2 | 8136 | 4 | 4.2 | 5.7 | 4.9 | -3 cores | 8192 | 4.3 | 7.2 | -4096MB |
| LTM2 | 6864 | 4 | 0 | 0 | 0 | | 8192 | 0 | 0 | |
| LTM1 | 7628 | 4 | 0 | 0 | 0 | | 8192 | 0 | 0 | |
| SIT_HL WJR_JR PTAPP 01 | 30432 | 16 | 0.8 | 10.6 | 3.1 | -12 cores | 32768 | 3.6 | 18.9 | -16384MB |
| SIT_HL WJR_H C02 | 15216 | 8 | 0.7 | 1.8 | 0.9 | -6 cores | 16384 | 1.1 | 4.4 | -8192MB |
| SIT_HL WJR_H C01 | 15216 | 8 | 0.9 | 2 | 1 | -6 cores | 16384 | 1.9 | 5.5 | -8192MB |
| Identit yMana ger | 3804 | 2 | 4.1 | 5.4 | 5.3 | -1 core | 6144 | 22.5 | 30.9 | -3072MB |
| SIT_HL WJR_JR PTAPP 02 | 30432 | 16 | 0.4 | 6.2 | 1.2 | -12 cores | 32768 | 1.9 | 15.1 | -16384MB |
| wxpro xy | 30432 | 16 | 0.1 | 0.1 | 0.1 | -12 cores | 32768 | 0 | 0.5 | -16384MB |
| SIT_HL WLDB 02 | 30432 | 16 | 1.4 | 4.8 | 1.6 | -12 cores | 32768 | 4.8 | 7.8 | -16384MB |
| SIT_HL WLDB 01 | 30432 | 16 | 1.6 | 1.9 | 1.8 | -12 cores | 32768 | 6.2 | 8.1 | -16384MB |
| sit_hla dg | 3804 | 2 | 2.7 | 3.5 | 3 | -1 core | 4096 | 12.1 | 20.5 | -2048MB |
| SIT_HL WJR_N GX02 | 7608 | 4 | 0.5 | 0.5 | 0.5 | -3 cores | 8192 | 1 | 2.1 | -4096MB |
| SIT_HL WJR_N GX01 | 7608 | 4 | 0.4 | 0.4 | 0.4 | -3 cores | 8192 | 0.9 | 2.3 | -4096MB |

| VM Name | CPU | | | | | | Memory | | | |
|----------------------|----------------|---------|--------------|---------------|----------------------|--------------------|---------------|--------------|---------------|--------------------|
| | Capacity (MHz) | core(s) | Avg Usage(%) | Peak Usage(%) | Top 10% Peaks Avg(%) | O/U Provision Rec. | Capacity (MB) | Avg Usage(%) | Peak Usage(%) | O/U Provision Rec. |
| b2 | | | | | | | | | | |
| sit_me nhu_d | 14200 | 8 | 0.2 | 0.2 | 0.2 | -6 cores | 16384 | 0.3 | 1.3 | -8192MB |
| b1 | | | | | | | | | | |
| SIT_HJ_EM | 3804 | 2 | 8.5 | 15.5 | 12.8 | -1 core | 4096 | 45.1 | 62.2 | |
| SIT_AII ADB | 7608 | 4 | 0.3 | 1.4 | 0.5 | -3 cores | 8192 | 2 | 4.3 | -4096MB |
| TEST_MINGX INHAO 2 | 7608 | 4 | 0.3 | 0.3 | 0.3 | -3 cores | 8192 | 0.1 | 0.5 | -4096MB |
| DEV_AI IAMS | 3804 | 2 | 0.5 | 1 | 0.6 | -1 core | 4096 | 2.5 | 4.1 | -2048MB |
| SIT_AII NS02 | 7608 | 4 | 0.1 | 0.1 | 0.1 | -3 cores | 8192 | 0.6 | 1.4 | -4096MB |
| SIT_AII NS01 | 7100 | 4 | 0.1 | 0.1 | 0.1 | -3 cores | 8192 | 0.6 | 1.5 | -4096MB |
| SIT_AII APROX Y02 | 3804 | 2 | 0.2 | 0.2 | 0.2 | -1 core | 4096 | 1.6 | 2.8 | -2048MB |
| SIT_AII APROX Y01 | 3804 | 2 | 0.2 | 0.2 | 0.2 | -1 core | 4096 | 1.5 | 2.8 | -2048MB |
| sit_me nhu_d | 15216 | 8 | 0.1 | 0.1 | 0.1 | -6 cores | 16384 | 0.3 | 0.9 | -8192MB |
| b3 | | | | | | | | | | |
| SIT_X GWG | 7608 | 4 | 0.5 | 0.6 | 0.5 | -3 cores | 8192 | 2.9 | 4.2 | -4096MB |
| DEV-XWSED | 7608 | 4 | 0.8 | 3.5 | 1.3 | -3 cores | 8192 | 5.2 | 28.8 | -4096MB |
| mdm-test-appgat eway | 3804 | 2 | 0.8 | 1.1 | 0.9 | -1 core | 4096 | 2.4 | 6.2 | -2048MB |
| DEV_AI IAMD | 7608 | 4 | 0.3 | 0.3 | 0.3 | -3 cores | 8192 | 1 | 2.1 | -4096MB |
| mdm- | 3804 | 2 | 4.8 | 5.6 | 5.1 | -1 core | 8192 | 7.2 | 9.9 | -4096MB |

01 Uila产品介绍—公有云支持

Demand 公有云监控需求

- 整合至单一控制台上监控所有Vmware、Microsoft Hyper-v环境、 Amazon Web Services (AWS)、 Microsoft Azure、 以及阿里云、 百度云部属的性能与资源分配状况。
- 全自动侦测并显示出跨云平台的工作流关联视图。
- 深入分析协助您发掘过供的云资产(拙劣的云端投资管理...花冤枉钱)， 调整您的云端资源及投资， 并提供虚拟机的资源管理最佳建议与相关数据证据。

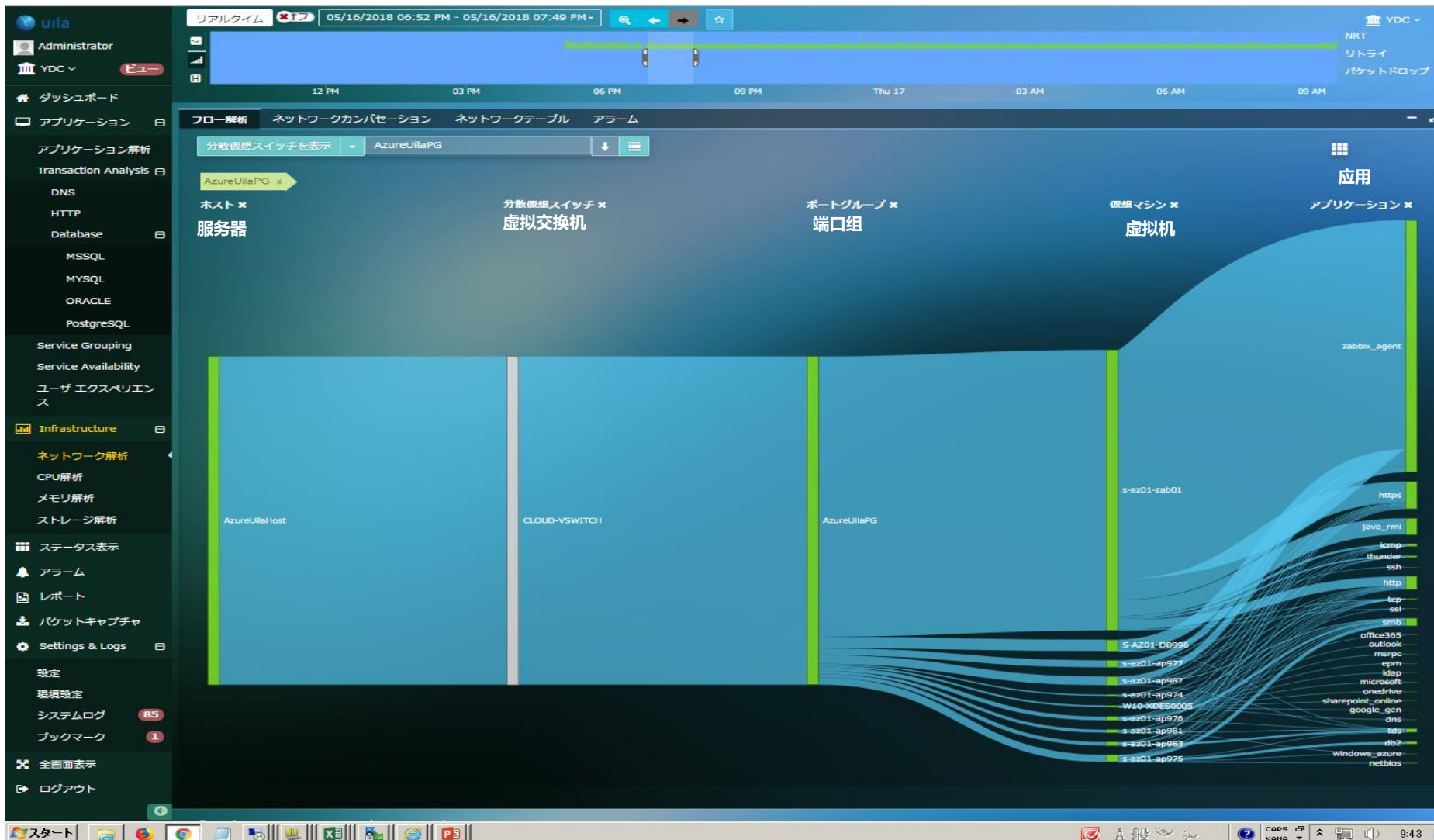


自动展现混合云的服务关联图

01 Uila产品介绍—公有云支持

Resource 云资源透视

网络分析视图



发现异常占用带宽的应用流量

01 Uila产品介绍—公有云支持

Uila混合云架构

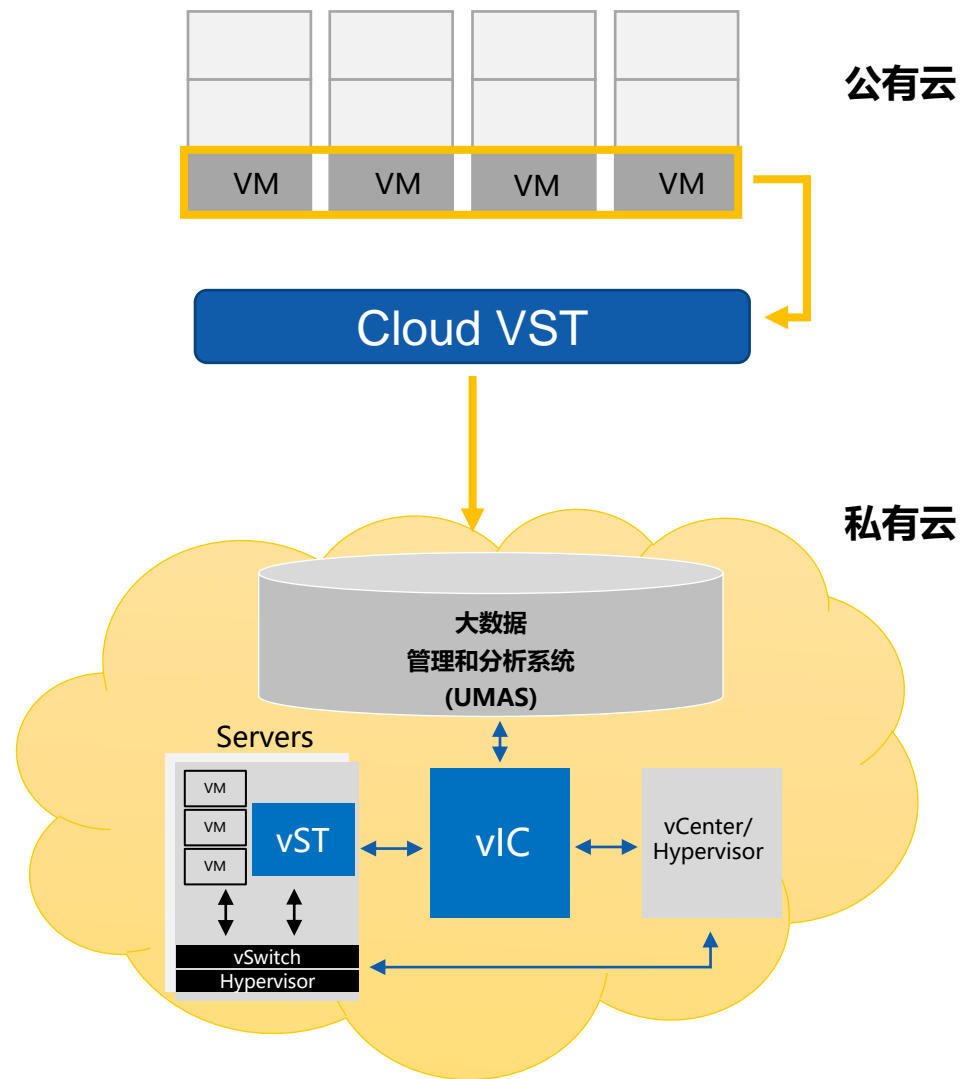
(1) 代理/插件

在每个vm中安装IST插件。它会将数据包发送到Cloud vST。

(2) Cloud VST

安装Uila Cloud VST（虚拟机）以接收来自代理的应用程序和网络数据。

(3) Cloud VST 将数据发送回私有云中的VIC，分析后存入UMAS大数据平台



/02 案例分享

Case share

铁路订票系统

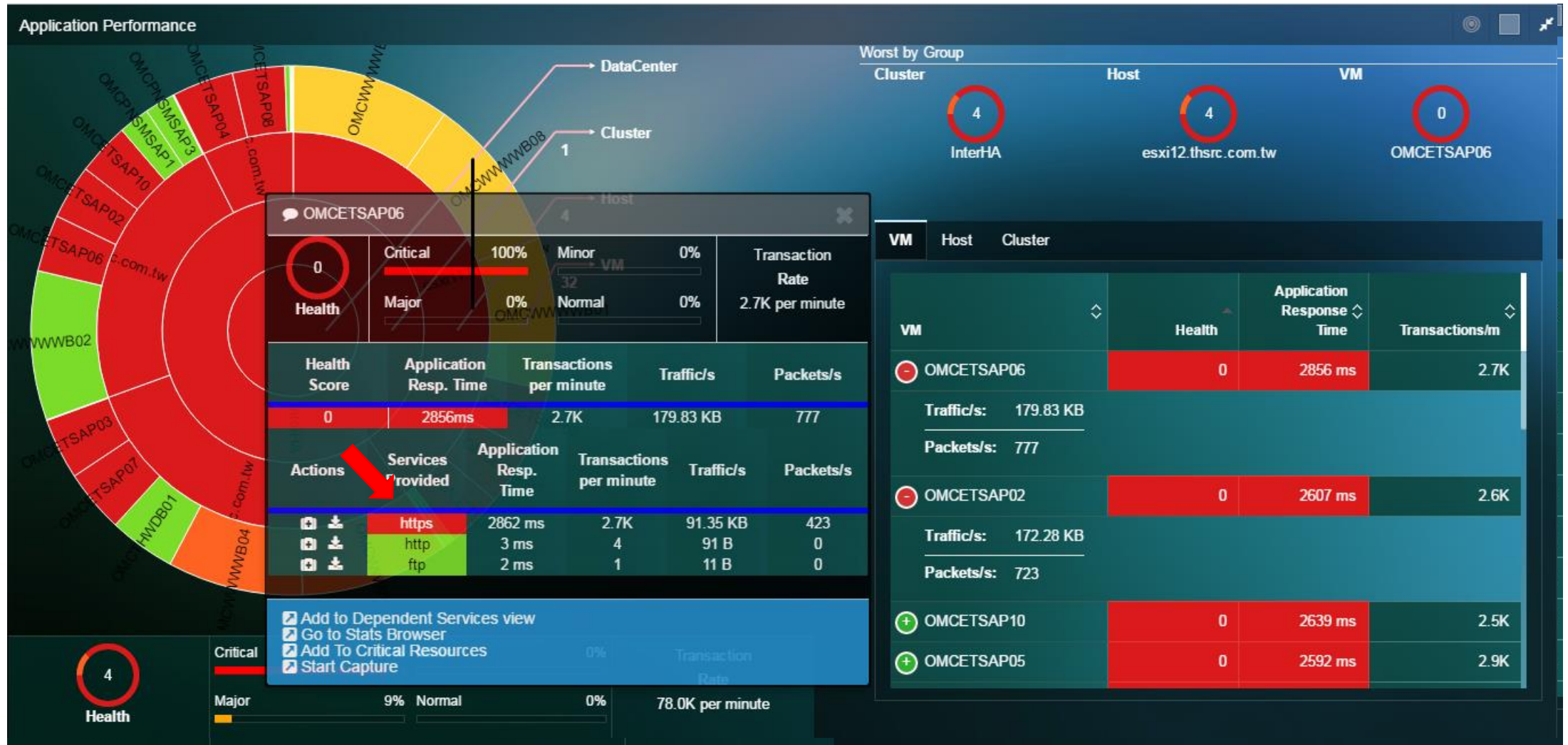
--节假日订票效率下降



VM-OMCETSAP06

--应用服务出现性能问题

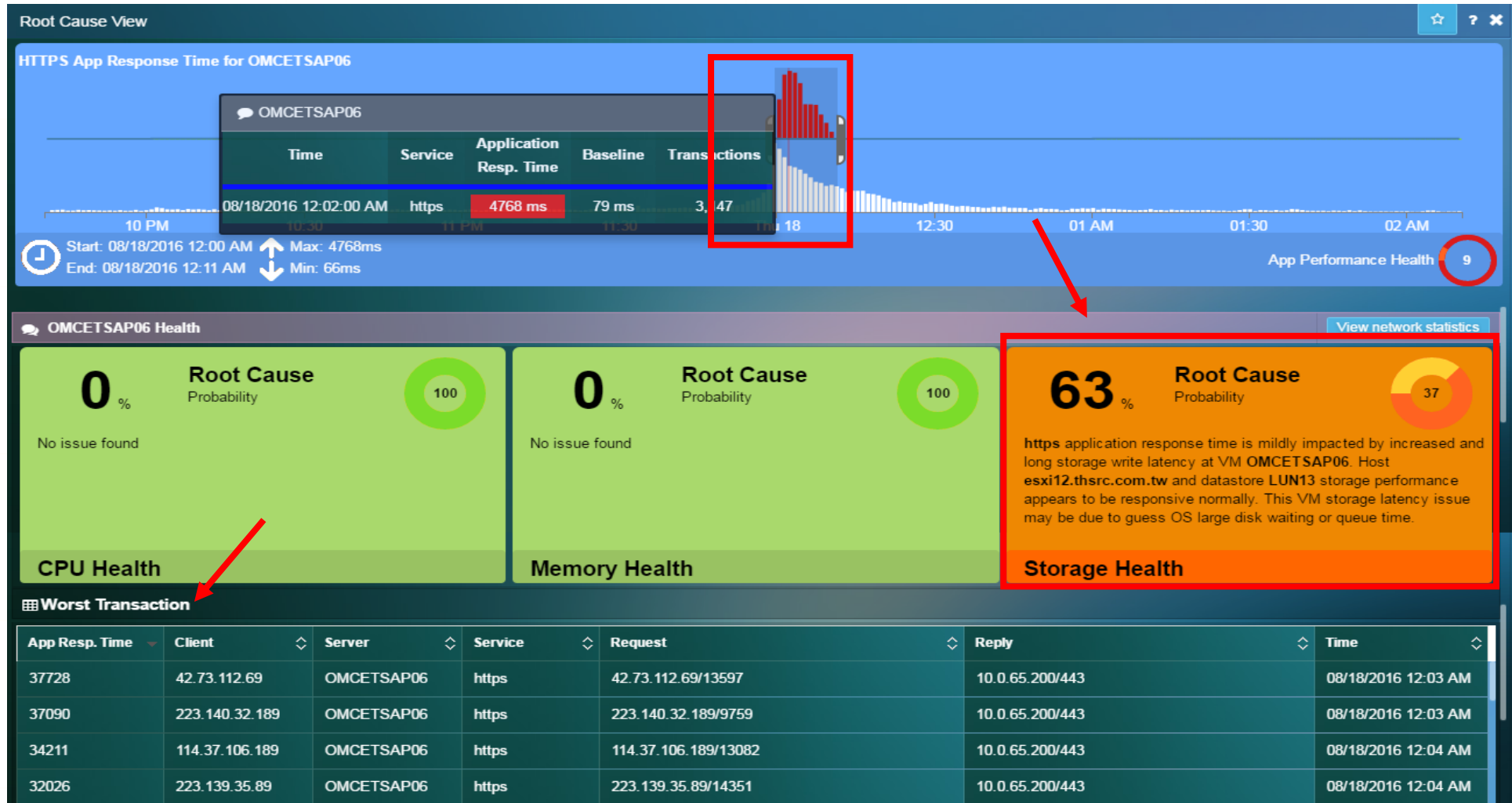
我们发现最慢虚拟机是OMCETSAP06，服务器上面所运行的HTTPS应用，平均每笔交易的响应时间2862MS



根本原因分析

--快速定位存储问题

透过Uila的智能分析我们发现，当业务量增加时应用响应变慢的原因与存储有关，同时可以看到受影响的交易应用响应时间高达30多秒。



存储分析

--IOPS瓶颈导致存储延迟



02 案例分析

value Uila带给用户价值

- 快速定位故障源，处理问题更及时有效，大幅降低 MTTR (平均修复时间)
- 跨物理-虚拟-公有云环境全方位监控，提高管理员视野
- 透过DPI技术进行深层的应用程序分析与识别
- 不同指标之间的关联性分析 (应用-网络-基础架构)，判断问题更智能
- 大幅改善业务服务性能状态与稳定性，提高系统服务满意度



/04 公司介绍

Company introduction

03 公司介绍

Background

Uila公司背景

以应用为中心的基础架构性能监控与分析平台



03 公司介绍

Case share 案例介绍

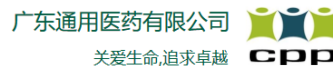
经融



保险&法律



企业



政府



服务业



卫生保健
&
零售商



“才几个星期的时间，Uila如今俨然已成为大量虚拟数据中心关键的一部份，协助迅速判断出现问题的根本原因”



Lake EMS
Lake Emergency Medical Services

Jim Root, CIO

全球超过20,000个应用程序服务器
皆由Uila监控

03 公司介绍

Means of purchase 部署要求及购买方式

- 具备虚拟环境(VMWare5.0及以上版本具备Vcenter)
- 购买方式按物理服务器CPU颗数计算license (不计算核数)



Thanks.

