

Uila (Wee-la)

如何提高資料中心的可視度

Data Center Full Stack Visibility





資料中心的挑戰-
最終用戶永遠在喊慢.但是-慢在哪裡?

部門之間互相推諉卸責

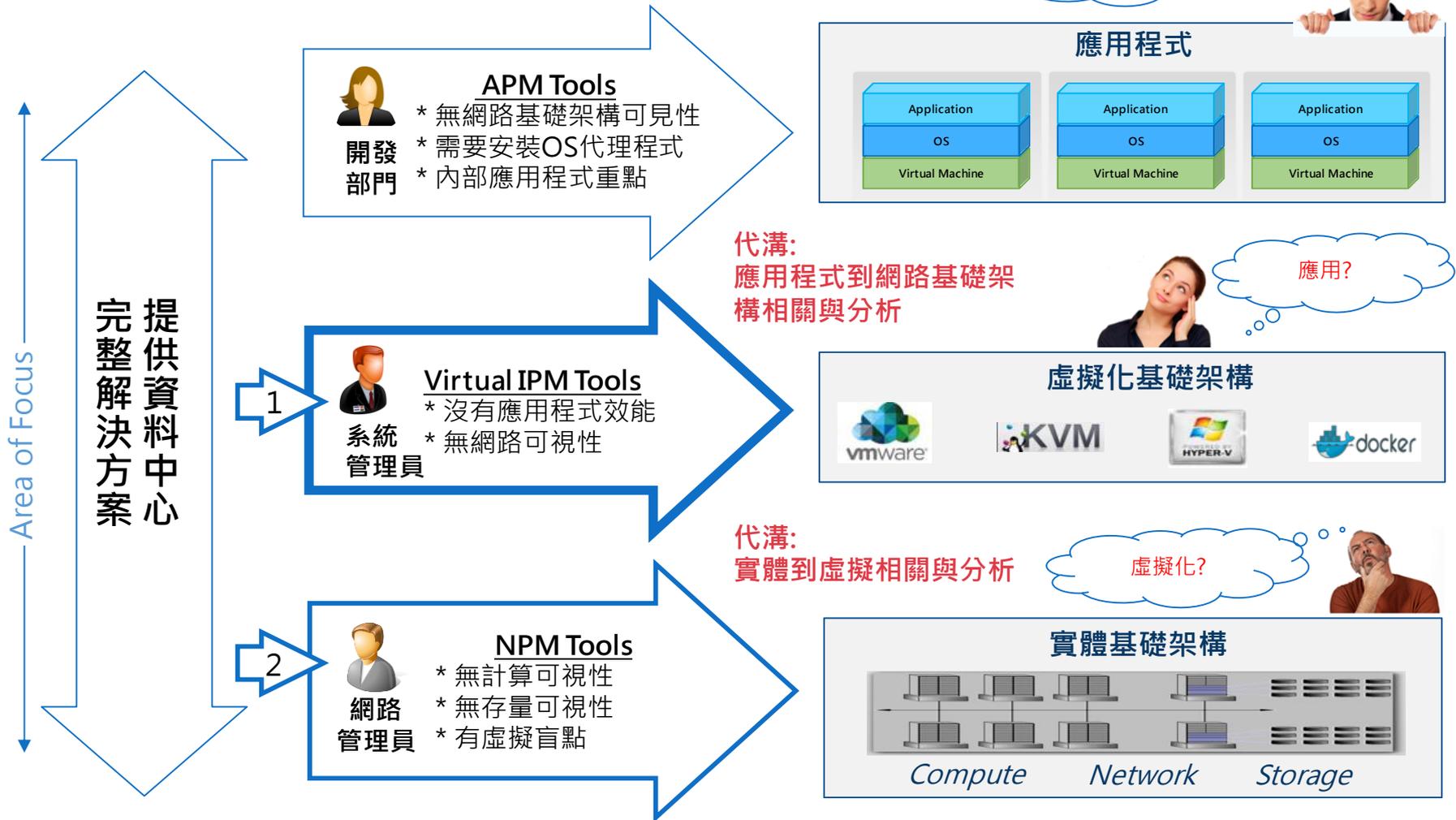


Vs



互通合作提高效率

Where We Fit – 使用者觀點



我們能做什麼

我們的解決方案能協助資料中心的維運，統合應用程式效能與網路及基礎架構的全方位的視野來確保與提高商業服務水準。

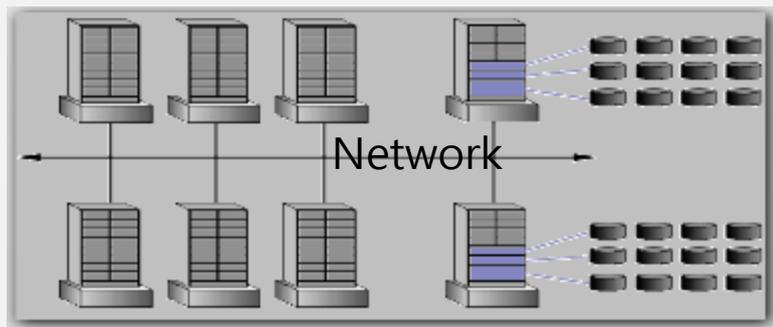
多層應用程式



虛擬化
基礎架構



融合物理
基礎設施



Compute

Storage



Uila

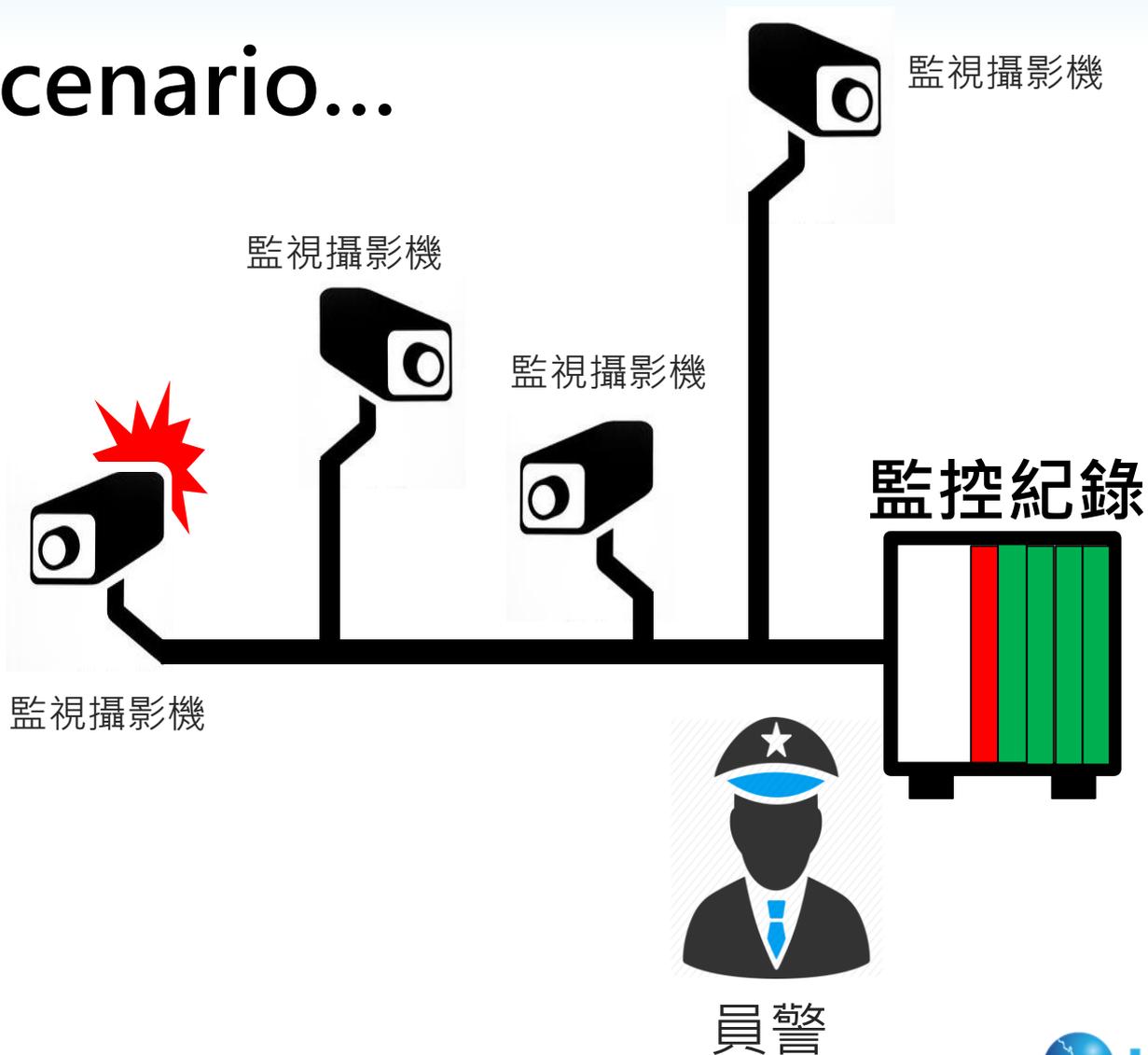
應用和基礎
設施效能管
理解決方案

產品概念

Normal Scenario...



事故發生



產品概念

For Uila Scenario...



严重性	信息
+	Average dcerpc response time for BS-RDWG03 was 1268 msec.
+	Average lds response time for BS-SOL07 was 2004 msec.
+	Average dcerpc response time for BS-RDWG03 was 1176 msec.
+	Average http response time for UMAS was 1898 msec.
+	Average lds response time for BS-SOL07 was 2016 msec.
+	Average dcerpc response time for BS-RDWG03 was 1072 msec.
+	Average http response time for UMAS was 606 msec.



事故發生
事件告警日誌

員警
IT 人員

Uila 主面板(Dashboard) – “Follow the red!”



找問題 - 選擇日期時間，最細可選至一分鐘

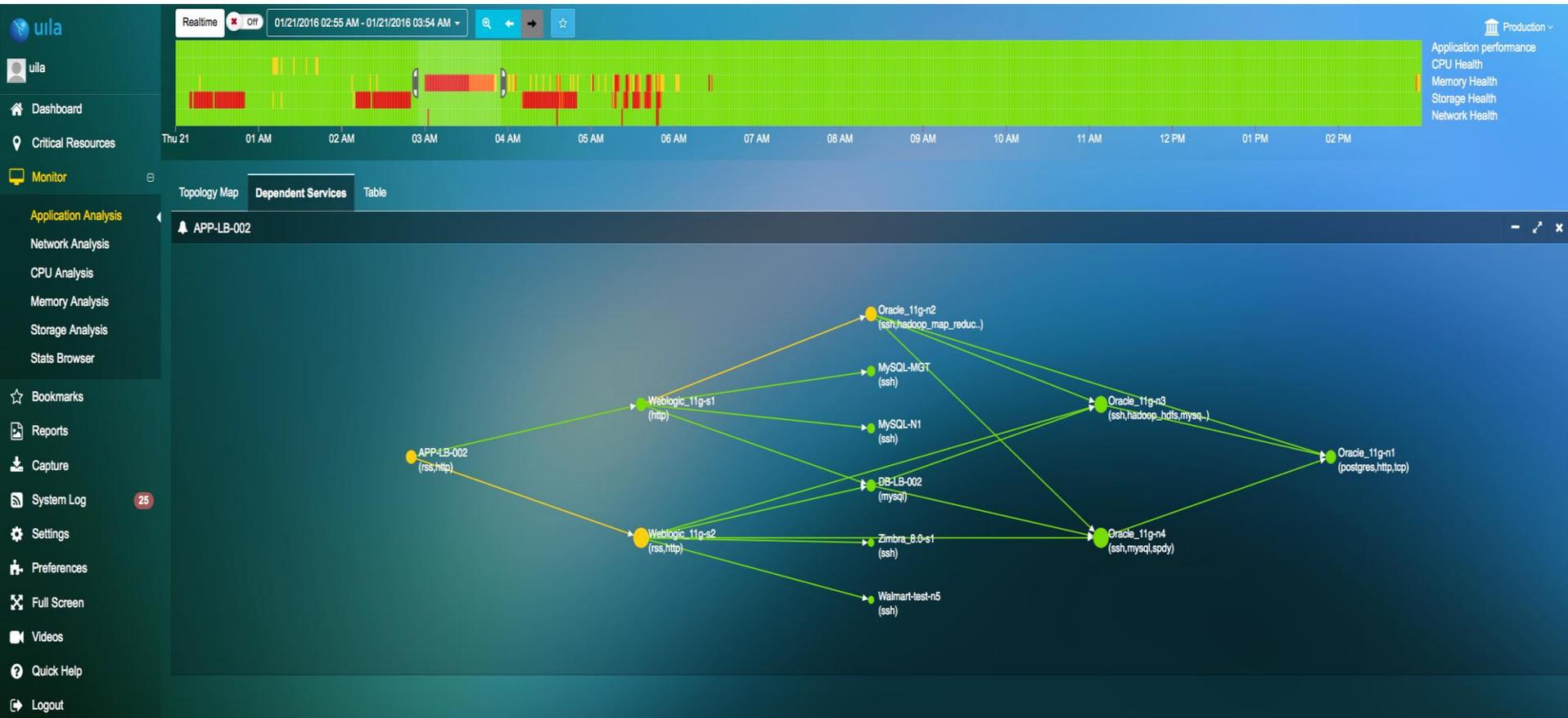
The screenshot displays the uila monitoring interface. A red box highlights the time selection area, which includes a 'Realtime' toggle, a time range selector set to '03/07/2018 01:11 PM - 03/07/2018 02:11 PM', and a calendar for March 2018. The calendar shows the 7th of March selected. Below the calendar, there are time selection controls for hour (12), minute (00), and AM/PM.

On the left side, there are navigation buttons for 'Current', 'Today', 'Yesterday', 'This Week', 'Last Week', and 'Custom'. Below these are input fields for 'START TIME' (03/04/2018 12:00 AM) and 'END TIME' (03/07/2018 11:44 AM), with 'Apply' and 'Close' buttons.

The right side of the dashboard shows a 'Production' dropdown menu with options for 'Application Performance', 'CPU Health', 'Memory Health', 'Storage Health', and 'Network Health'. Below this is a green bar chart showing data for 'Wed 07' at '12 PM'. On the far right, there are 'Worst by Group' charts for 'Cluster', 'Host', and 'VM' with various performance indicators.

進入應用分析 Application Analysis -> Dependent Service

Web -AP-DB Server



進入應用分析 Application Analysis -> Dependent Service

APP-LB-002

點選橘色的點或線檢視細節。



請求及回應紀錄: 各 MySQL Query 回應時間

最糟糕记录

Save with csv

应用 响应 时间	客户端	服务 端	服务	请求	回应
2800	OAsystem	OAsql	mysql	64205::mysql[end]:0x7fcd4b6a7c10 mysql[request]:mysql[query]:select count(RES.ID_) . from ACT_HI_TASKINST RES .	3306::mysql[end]:0x7fcd4dbddea0 mysql[result_s
2622	OAsystem	OAsql	mysql	64432::mysql[end]:0x7fcd4aa30e00 mysql[request]:mysql[query]:SELECT a.id AS "id",...a.cvenabb_name AS "cvenabbName",...	3306::mysql[end]:0x7fcd4be5bc00 mysql[result_s
2359	OAsystem	OAsql	mysql	64388::mysql[end]:0x7fcd4a828ac0 mysql[request]:mysql[query]:select * . from ACT_HI_COMMENT . where TASK_ID_ = 'dca8c37a	3306::mysql[end]:0x7fcd4a829370 mysql[result_s
2340	OAsystem	OAsql	mysql	64346::mysql[end]:0x7fcd549d6180 mysql[request]:mysql[query]:select count(RES.ID_) . from ACT_HI_TASKINST RES .	
2042	OAsystem	OAsql	mysql	64346::mysql[end]:0x7fcd549d6180 mysql[request]:mysql[query]:select count(1) from (SELECT a.id AS "id",...a.proc_ins_i	3306::mysql[end]:0x7fcd4d95bb90 mysql[result_s
1381	OAsystem	OAsql	mysql	64346::mysql[end]:0x7fcd549d6180 mysql[request]:mysql[query]:select count(1) from (SELECT a.id AS "id",...a.user_id AS	3306::mysql[end]:0x7fcd4d95bb90 mysql[result_s
1351	OAsystem	OAsql	mysql	64346::mysql[end]:0x7fcd549d6180 mysql[request]:mysql[query]:SELECT a.id AS "id",...a.cvenabb_name AS "cvenabbName",...	
1257	OAsystem	OAsql	mysql		3306::mysql[end]:0x7fcd4dbddea0 mysql[result_s

匯出 CSV 檔案，提供證據討論

Oracle_11g-n4 Worst Transactions--20180318152726

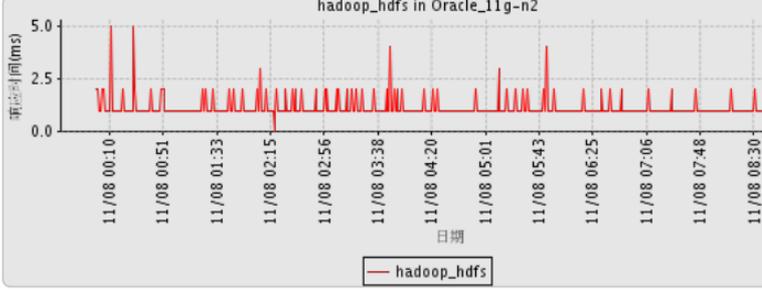
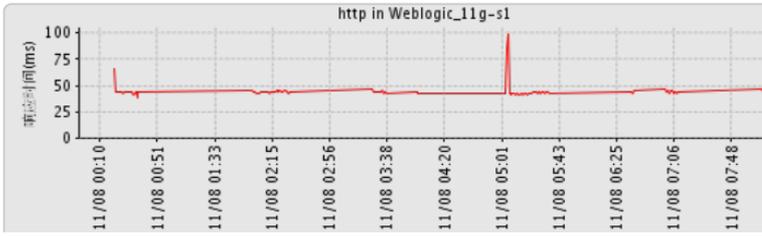
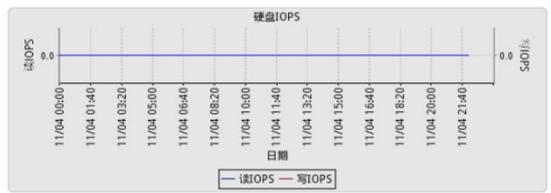
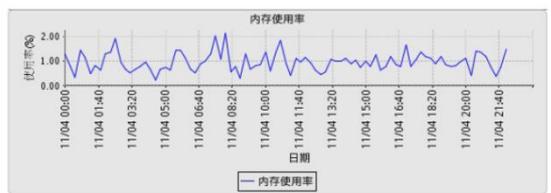
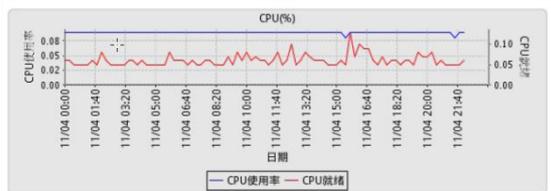
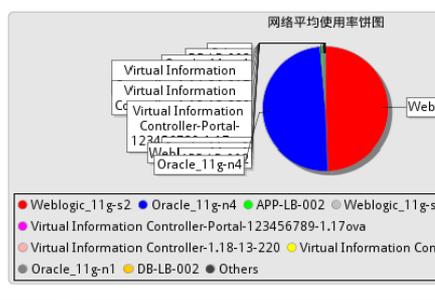
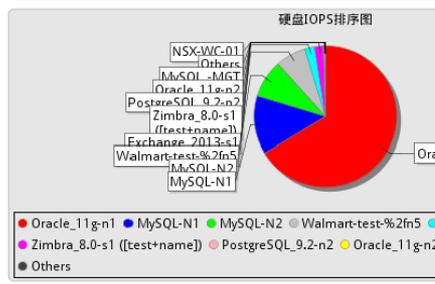
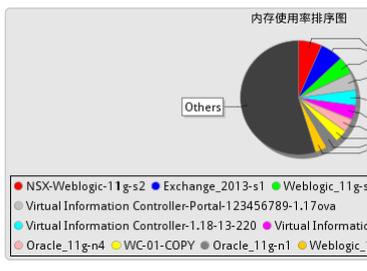
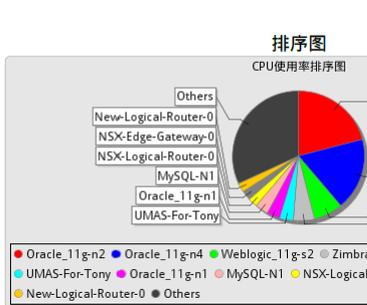
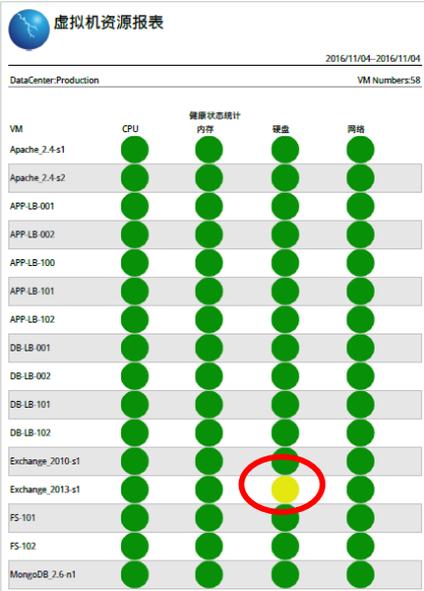
常用 插入 版面配置 公式 資料 檢閱 檢視

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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	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 BETWEEN 39877 AND 39877+11999 ORDER BY c	3306::mysql[result_set]:mysql[number_co#####	

設置自動定時產出報表



VM Name	CPU						Memory			
	Capacity (MHz)	core(s)	Avg Usage(%)	Peak Usage(%)	Top 10% Peaks Avg(%)	Over Provision Rec.	Capacity (MB)	Avg Usage(%)	Peak Usage(%)	Over Provision Rec.
VIC	6500	2	0.8	6.7	2.5	-1 core	4096	13.5	67.4	
vCenter-6.7	6500	2	2.4	2.9	2.8	-1 core	10240	12.5	15	-5120MB
DBServe-r-1	3250	1	0.5	0.8	0.7		2048	2.6	4.4	-1024MB
DBServe-r-2	3250	1	0.5	0.8	0.7		2048	2.8	4.1	-1024MB
DBServe-r-3	3250	1	0.5	1	0.7		2048	2.7	4.7	-1024MB
Addison-VIC	6500	2	0.3	0.3	0.3	-1 core	4096	1.6	2.5	-2048MB
DBServe-r-4	3250	1	0.5	0.8	0.8		2048	2.7	4.4	-1024MB
wpservice-r1-AWS	2400	1	0	0	0		994	0	0	

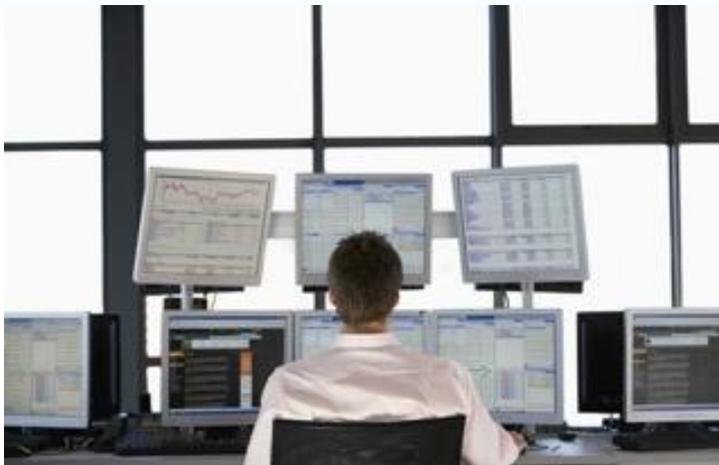


跨雲平臺及混合雲監控
Hybrid/Multi-Cloud
Monitoring

為何企業組織逐漸走向多雲環境?

- **快速可靠不受頻寬的限制** – 銀行Web 服務在雲端,但是關鍵應用及資料庫在私有雲。
- **節約成本** – 針對特定雲服務供應商的帳單與日俱增。也有因應短期開發或測試需求,不同的供應商提供不同的價格而走向多雲。
- **備援** – 備份和緊急資料災難害復原至不同的雲服務供應商。
- **企業的並購或收購** – 因並購或收購而形成多個雲服務供應商。
- **善用雲平臺優勢** – 充分利用雲服務供應商的特有優勢,例如Azure的Microsoft SQL Server或Google雲平臺AI基礎的資料分析。
- **商業多樣性** – 因公司內部策略或為避免單一供應商出現問題,不會只鎖定單一供應商(是的..公有雲平臺真的會發生問題!)

面臨哪些挑戰?



沒有單一工具能提供
混合雲的全方位監控



問題發生時修復時間緩慢



雲服務投資管理

用 Uila 進行多雲監控

- 整合至單一控制面板上監控所有Vmware、Microsoft Hyper-v環境、Amazon Web Services (AWS)、Microsoft Azure、以及Google Cloud Platform (GCP) 部屬的效能, 容量(capacity)與資源分配狀況。
- 全自動偵測並顯示出跨雲平台的工作流關聯視圖。
- 深入分析協助您發掘過供的雲資產(拙劣的雲端投資管理...花冤枉錢), 調整您的雲端資源及投資, 並提供虛擬機的資源管理最佳建議與相關數據證據。



自動拉出 **Multi-Cloud** 的工作流關聯圖



最佳資源建議



Uila 公司簡介

Uila 公司背景

Application-centric Infrastructure Performance Monitoring and Analytics



公司成立
Founded
Santa Clara, Ca
USA



產品發表
Product Release



取得專利
Patent 9,647,909
Data Center
Full Stack Visibility

Best of **Interop** 2016
FINALIST

Best of **Interop** 2016
FINALIST

Winning Categories

1. Performance Management & Monitoring
2. Cloud & Virtualization



Best of VMworld Finalist Award

Winning Category
Workload Migration &
Management



各產業的用戶

銀行業



企業



保險業務



製造業



電信服務業



零售業



政府



教育



醫療業



服務業



Uila 解決方案的優點與功能

優點	功能
<ul style="list-style-type: none">提升團隊協同合作	<ul style="list-style-type: none">應用程式和基礎設施能見度+關聯
<ul style="list-style-type: none">服務中斷可從幾小時縮短到幾分鐘	<ul style="list-style-type: none">一鍵式應用分析基礎設施建設的根本原因
<ul style="list-style-type: none">防止應用程式效能問題	<ul style="list-style-type: none">自動學習基線和趨勢分析
<ul style="list-style-type: none">節省營運和工具成本50%-80%	<ul style="list-style-type: none">虛擬的網路分流器的架構,無需安裝探針,無需新增硬體
<ul style="list-style-type: none">精簡IT管理費用	<ul style="list-style-type: none">運用軟體部署

輕易地透視虛擬化基礎架構，防止應用程式效能劣化、減少應用程式中斷，提升系統服務滿意度，並協助資料中心操作人員主動調整關鍵業務應用程式的效能。大數據分析長時間記錄，隨時調閱歷史紀錄查找問題。

full-featured trial - 歡迎安排 POC 測試

- 1) 具備虛擬環境(VMware vCenter 5.0 以上版本)。
- 2) 有重要應用服務安裝在 VM 虛擬機環境。
- 3) 有虛擬及實體機環境。
- 4) 有混合雲環境或未來有公有雲規劃。



*標準 PoC 測試時間為 30 天。