

台北海洋技術學院

Taipei College of Maritime Technology

103 年 iMC 教育訓練



時間:103 年 12 月 12 日下午 13:00~17:00

地點:台北海洋技術學院福遠樓 2F D212 教室

講師:蕭玉龍 先生

簡易使用手冊

MC Intelligent Management Platform (JF377A)

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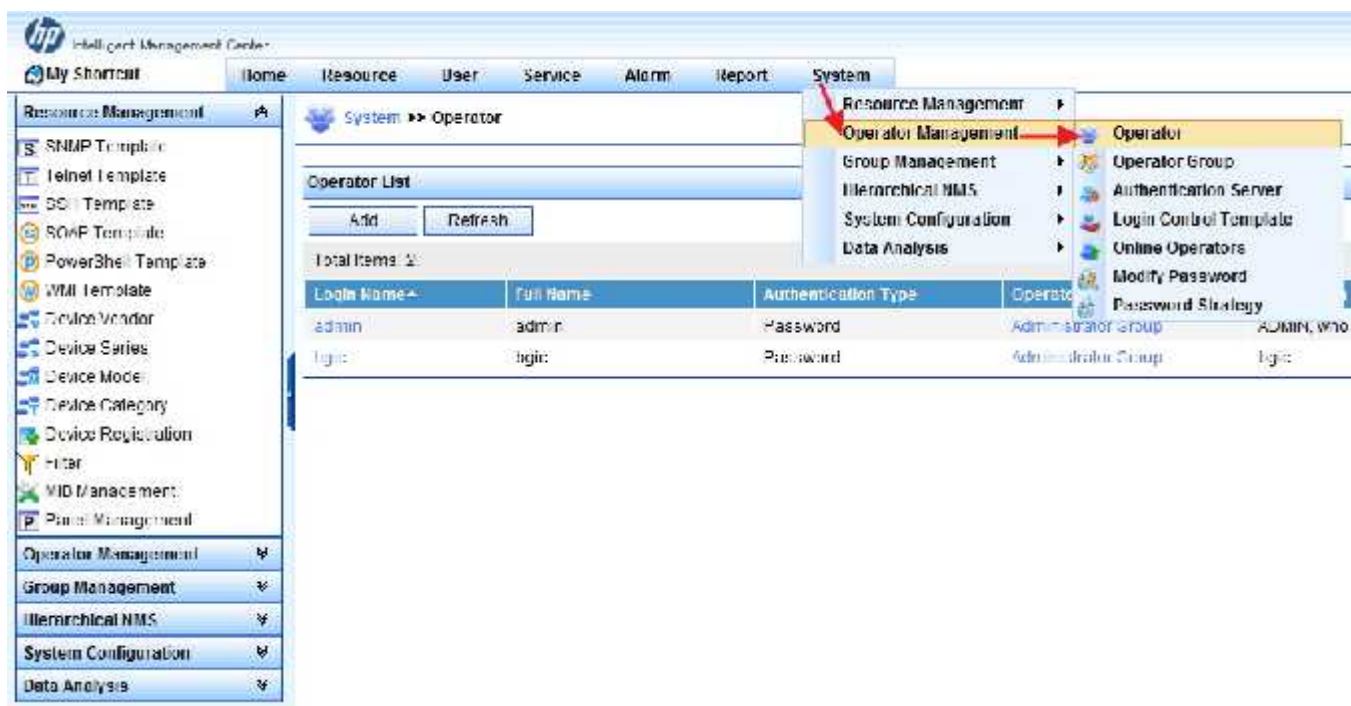
1.如何登入 IMC

輸入下圖 IP(<http://IMC主機IP:8080/imc/>)，及帳號密碼後可登入



2.使用者管理

新增使用者方式



按上圖 Add 後，可新增使用者

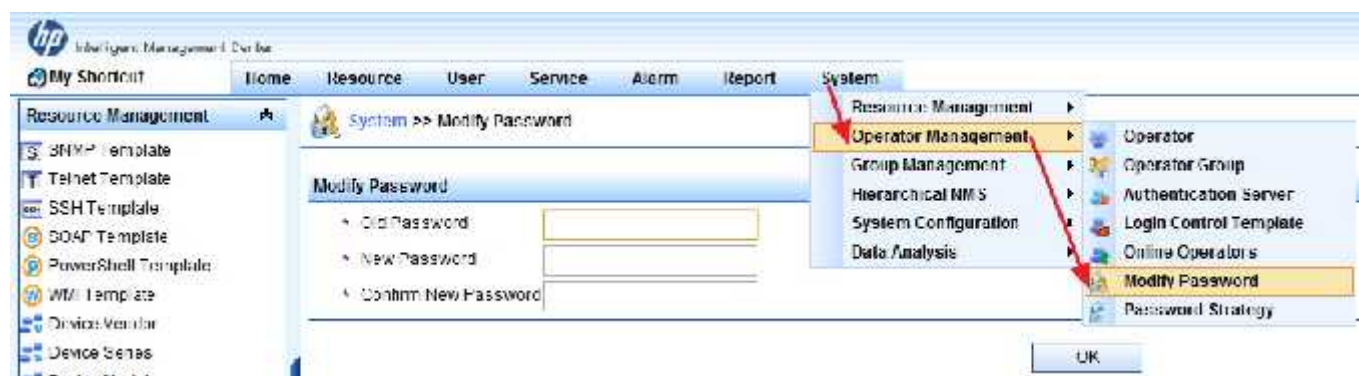
System >> Operator >> Add Operator

Add Operator

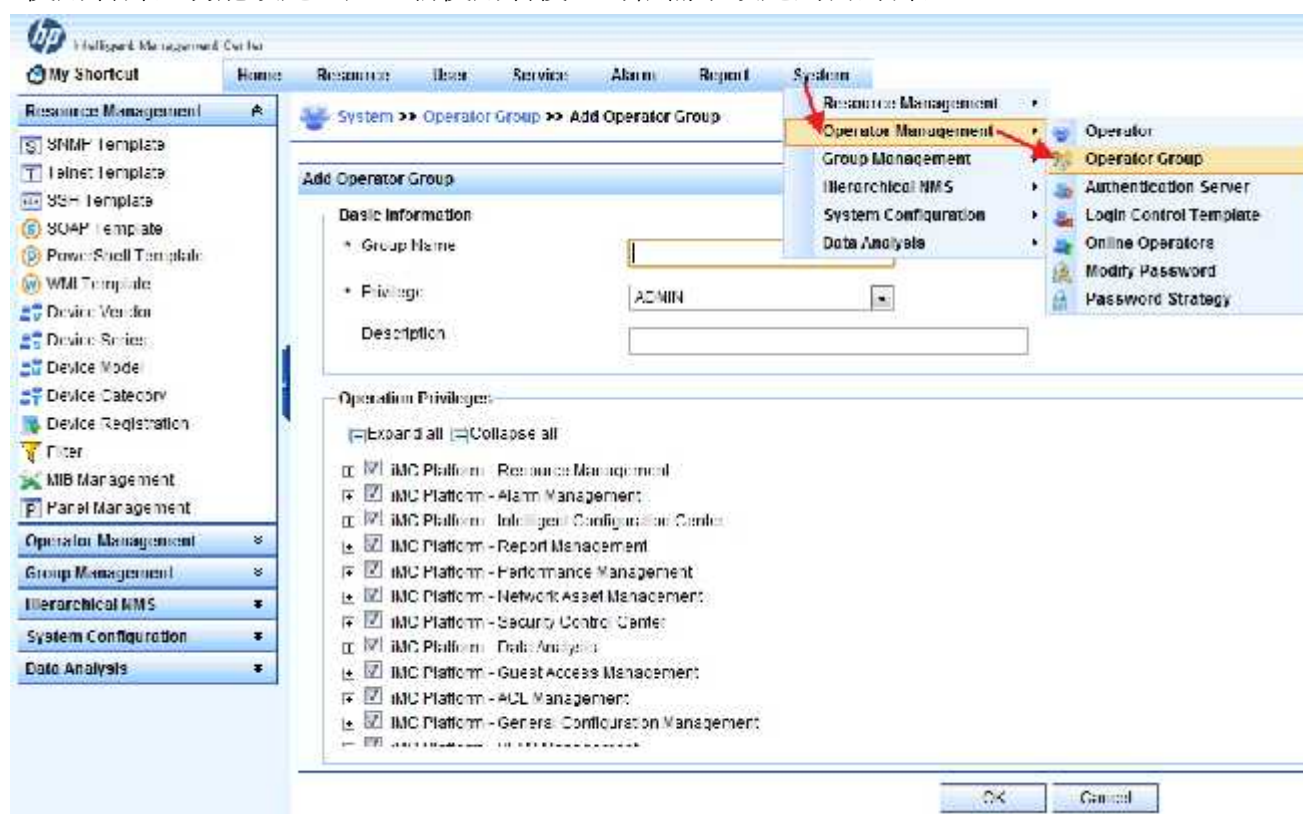
Basic Information

- * Login Name: bgic
- * Full Name: bgic
- * Authentication Type: Password
- * Password:
- * Confirm Password:
- * Idle Timeout (Minutes): Same as System Settings
- * Operator Group: Administrator Group
- Description: Administrator Group, Maintainer Group, Viewer Group

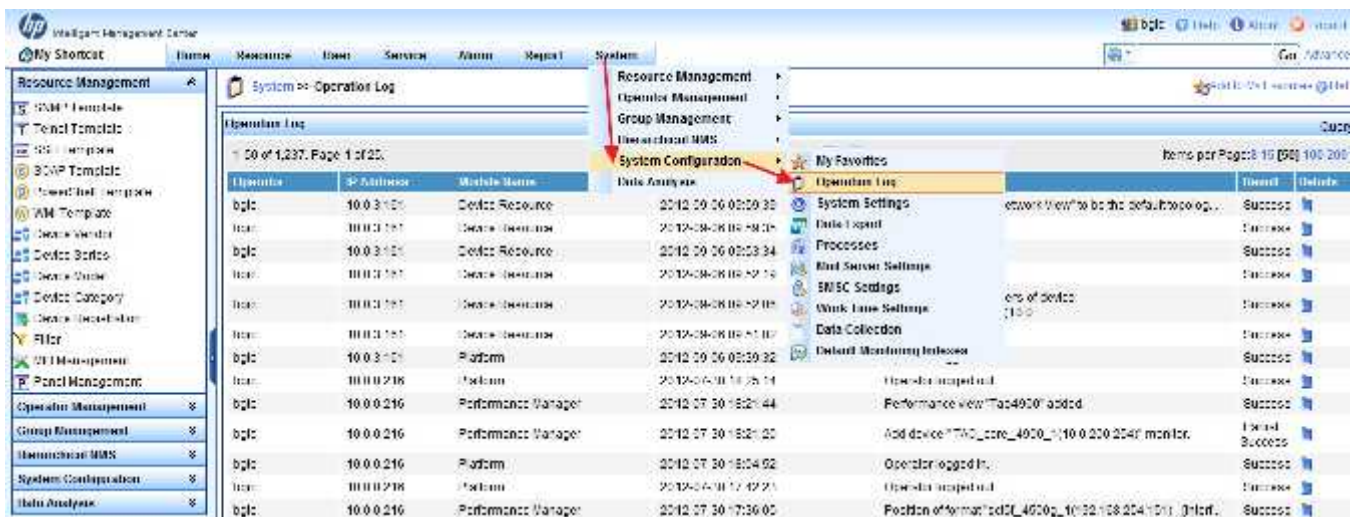
修改使用者密碼



IMC 使用者群組功能設定，建立新使用者後，可依需求設定到自訂群組

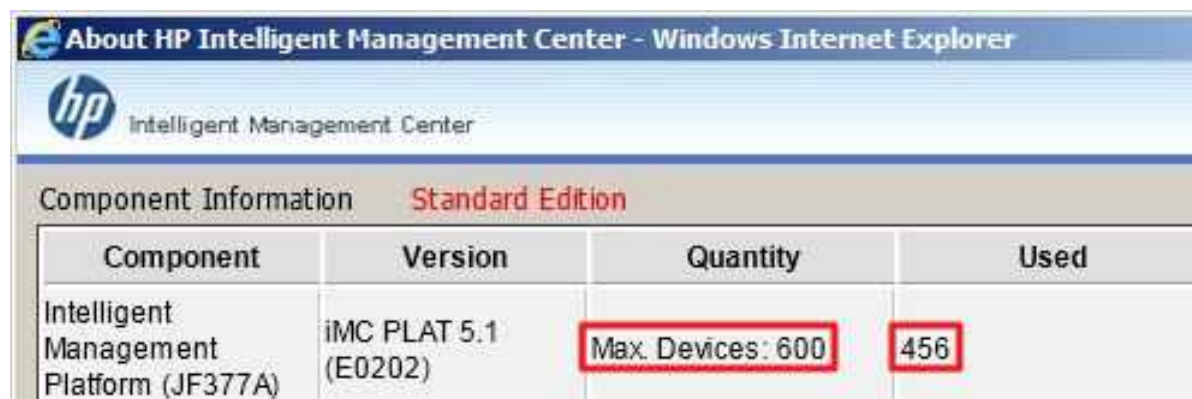


MC 操作紀錄



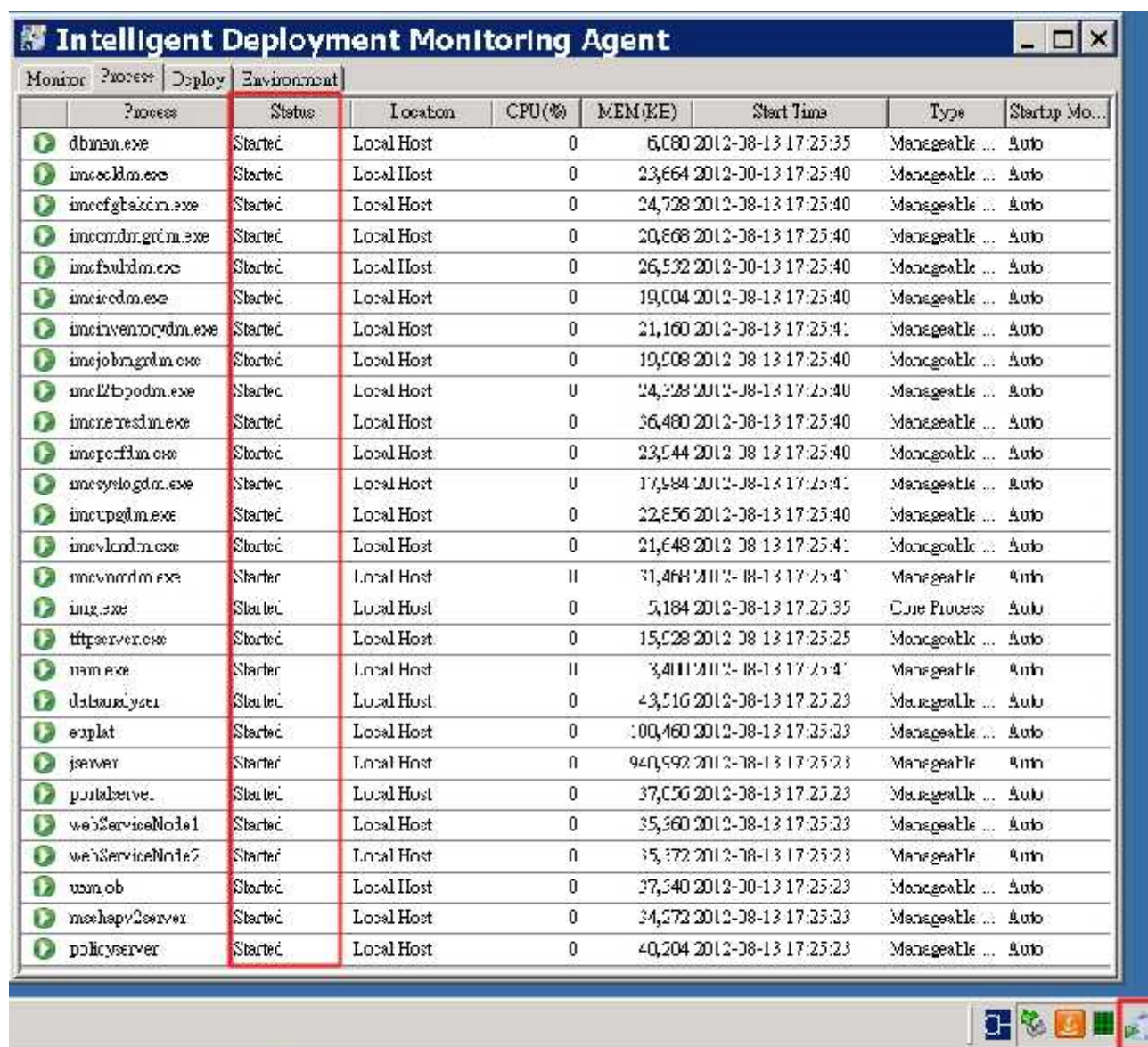
3.瞭解 IMC 的運作資訊

License 檢視；Quantity 為最大可用數，Used 為已使用數



Component	Version	Quantity	Used
Intelligent Management Platform (JF377A)	IMC PLAT 5.1 (E0202)	Max. Devices: 600	456

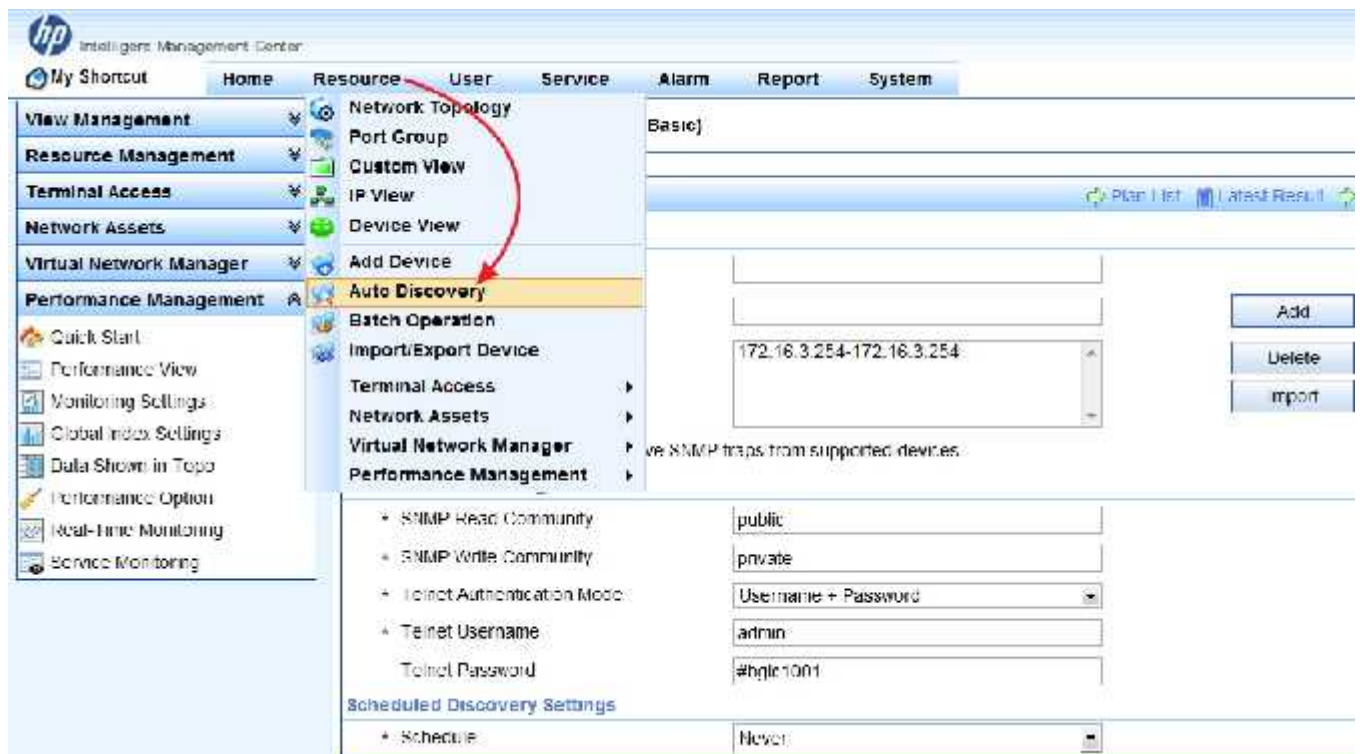
MC 運作中的服務；以滑鼠點兩次畫面右下角的 MC icon，當所有 Status 由 Starting 變為 Started 後即可使用 MC



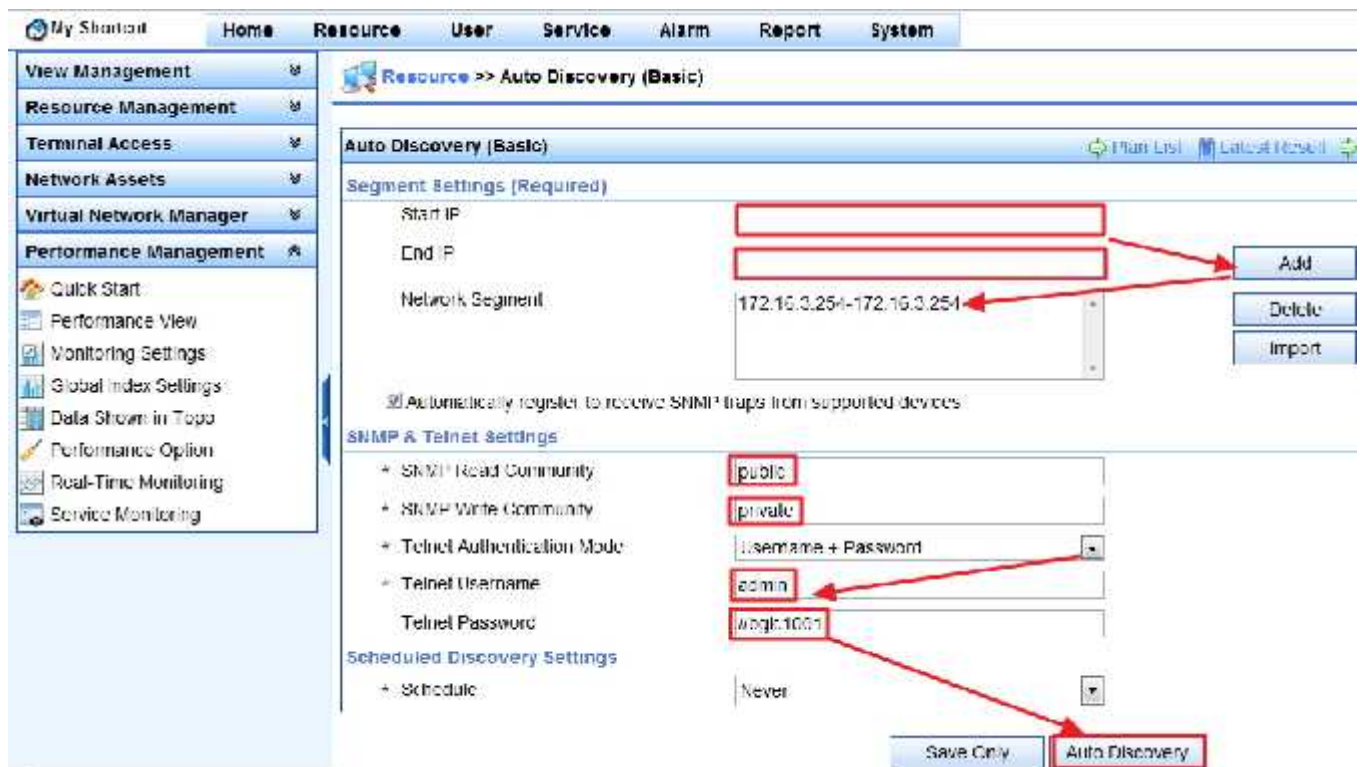
Process	Status	Location	CPU(%)	MEM(K)	Start Time	Type	Startup Mo...
dbman.exe	Started	Local Host	0	6,080	2012-08-13 17:25:35	Manageable ...	Auto
imccdm.exe	Started	Local Host	0	23,664	2012-08-13 17:25:40	Manageable ...	Auto
imccfgbakdm.exe	Started	Local Host	0	24,728	2012-08-13 17:25:40	Manageable ...	Auto
imccdmgrdm.exe	Started	Local Host	0	20,668	2012-08-13 17:25:40	Manageable ...	Auto
imccfuidm.exe	Started	Local Host	0	26,532	2012-08-13 17:25:40	Manageable ...	Auto
imccidm.exe	Started	Local Host	0	19,004	2012-08-13 17:25:40	Manageable ...	Auto
imccinventorydm.exe	Started	Local Host	0	21,160	2012-08-13 17:25:41	Manageable ...	Auto
imccjobmgrdm.exe	Started	Local Host	0	19,008	2012-08-13 17:25:40	Manageable ...	Auto
imcclibtopdm.exe	Started	Local Host	0	24,728	2012-08-13 17:25:40	Manageable ...	Auto
imccresdm.exe	Started	Local Host	0	36,480	2012-08-13 17:25:40	Manageable ...	Auto
imccpofdm.exe	Started	Local Host	0	23,544	2012-08-13 17:25:40	Manageable ...	Auto
imccsyslogdm.exe	Started	Local Host	0	17,584	2012-08-13 17:25:41	Manageable ...	Auto
imccupdm.exe	Started	Local Host	0	22,656	2012-08-13 17:25:40	Manageable ...	Auto
imccvclndm.exe	Started	Local Host	0	21,648	2012-08-13 17:25:41	Manageable ...	Auto
imccvnmrm.exe	Starting	Local Host	0	31,464	2012-08-13 17:25:41	Manageable ...	Auto
img.exe	Started	Local Host	0	5,184	2012-08-13 17:25:35	Core Process	Auto
httpserver.exe	Started	Local Host	0	15,528	2012-08-13 17:25:25	Manageable ...	Auto
mm.exe	Starting	Local Host	0	3,411	2012-08-13 17:25:41	Manageable ...	Auto
database.sys	Started	Local Host	0	43,516	2012-08-13 17:25:23	Manageable ...	Auto
explat	Started	Local Host	0	100,460	2012-08-13 17:35:23	Manageable ...	Auto
jservice	Starting	Local Host	0	940,592	2012-08-13 17:25:23	Manageable ...	Auto
pubkserve	Started	Local Host	0	37,056	2012-08-13 17:25:23	Manageable ...	Auto
webServiceNode1	Started	Local Host	0	35,360	2012-08-13 17:35:23	Manageable ...	Auto
webServiceNode2	Starting	Local Host	0	35,372	2012-08-13 17:25:23	Manageable ...	Auto
uomob	Started	Local Host	0	37,540	2012-08-13 17:25:23	Manageable ...	Auto
meshap2server	Started	Local Host	0	34,272	2012-08-13 17:35:23	Manageable ...	Auto
policyserver	Started	Local Host	0	40,204	2012-08-13 17:25:23	Manageable ...	Auto

4. 新增/移除設備於 IMC

新增設備選單位於 Resource Auto Discovery



點開選單後需設定如下資訊，然後按一下 Auto Discover



新增設備中...

Resource >> Auto Discovery >> Plan List >> Auto Discovery Result

Auto Discovery Result			
 Running Auto Discovery			
Discover Time	2012-09-10 11:43:32		
Operator Name	admin	Discovery Type	Network Segment-Based
Start Time	2012-09-10 11:43:32	End Time	2012-09-10 11:43:32
Time	Newly-discovered devices	Result	

新增設備成功

Resource >> Auto Discovery >> Plan List >> Auto Discovery Result

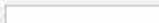
Auto Discovery Result			
Discover Time	2012-09-10 11:43:32		
Operator Name	admin	Discovery Type	Network Segment-Based
Start Time	2012-09-10 11:43:32	End Time	2012-09-10 11:43:49
Total	1	SNMP Devices	1
ICMP Devices	0		
Time	Newly-discovered devices	Result	
2012-09-10 11:43:49	RGIC_Firewall(10.1.1.254)	Success.	

新增設備後可獲知的內容

Device Details			
Device Label	PA-200  [Modify]	System Name	PA-200  [Modify]
Device Status	 Normal	Contact	Not Set  [Modify]
IP Address	10.11.1.254	Location	10.11.1.1  [Modify]
Mask	255.0.0.0	Runtime	0 day(s) 0 hour(s) 26 minute(s) 17 second(s) 780 millisecond(s)
sysOID	1.3.6.1.4.1.25461.2.0.12	Last Poll	2012-05-17 14:16:55
Device Model	Unknown SNMP Product	Login Type	Telnet  [Modify]
Device Category	Security  [Modify]	Interfaces	0 Interface List
System Description Palo Alto Networks PA-200 series firewall			

Service Monitoring	Network Assets
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Monitoring Information 	
▶ Monitoring Service	Total Items: 0.

Performance Monitor 		
Monitor Index	Monitored Value	Operation
Average CPU Utilization in Last One Hour - [CPU_1]	5.500% 	Stop Monitor
Average CPU Utilization in Last One Hour - [CPU_2]	1.000% 	Stop Monitor
Average Unreachability Today	0.000% 	Stop Monitor
Average Response Time in Last One Hour	1.000 ms 	Stop Monitor

常用的功能頁面

The screenshot displays a web-based network management interface. On the left is a sidebar with various actions. The main content area shows the 'IP/MAC Learning Query' page, which includes a table of learned IP and MAC addresses. Below this, the 'Open Device Panel' is visible, showing a graphical representation of a network device with its ports and status indicators.

Action

- Synchronize
- Refresh
- Unmanage
- Delete
- Renet
- Open Web Manager
- Ping
- TraceRoute
- View Topology
- MIB Management
- IP/MAC Learning Query**
- Telnet/SSH Proxy
- Open Device Panel**
- SSH

IP/MAC Learning Query - Google Chrome

172.16.3.127:8080/.../ip/mac/learnList.js?deviceId=28&deviceIp=172.16.3.251

IP/MAC Learning Query

Learned IP Address: Learned MAC Address: Query Result

IP/MAC Learning List(172.16.3.254)

1/58 of 58 Page 1 of 1 Items per Page: 10 50 100 200

Switch IP	Interface Description	VLAN ID	Learned IP Address	Learned MAC Address
172.16.3.254	GigabitEthernet1/0/1	1		00:21:5c:42:51:2a
172.16.3.254	GigabitEthernet1/0/1	200	172.16.3.26	00:0c:20:05:00:44
172.16.3.254	GigabitEthernet1/0/1	208	172.16.3.28	00:0c:20:04:ad:14
172.16.3.254	GigabitEthernet1/0/1	208	172.16.3.127	00:0c:20:0c:99:92
172.16.3.254	GigabitEthernet1/0/10	200		00:14:3d:21:06:82
172.16.3.251	GigabitEthernet1/0/14	200	10.1.1.200	00:1e:c2:ac:ce:cd
172.16.3.254	GigabitEthernet1/0/15	204	10.1.1.9	00:03:07:07:50:86

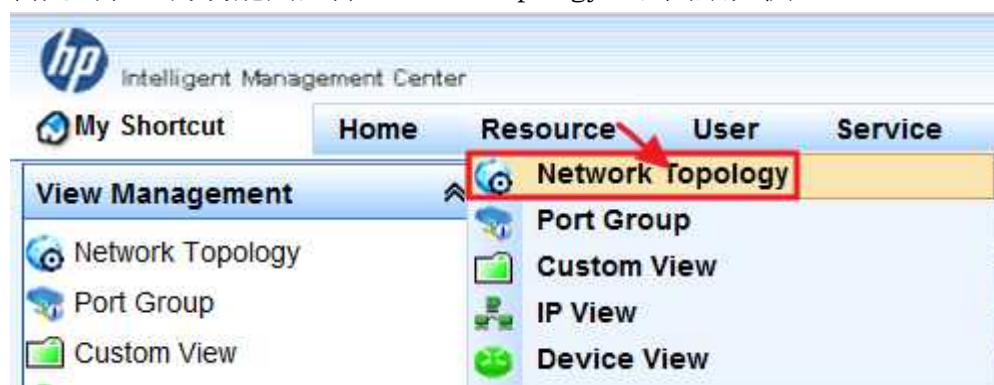
Device Manager-172.16.3.254 - Google Chrome

172.16.3.127:8080/.../deviceManager.js?deviceId=28&deviceIp=172.16.3.251

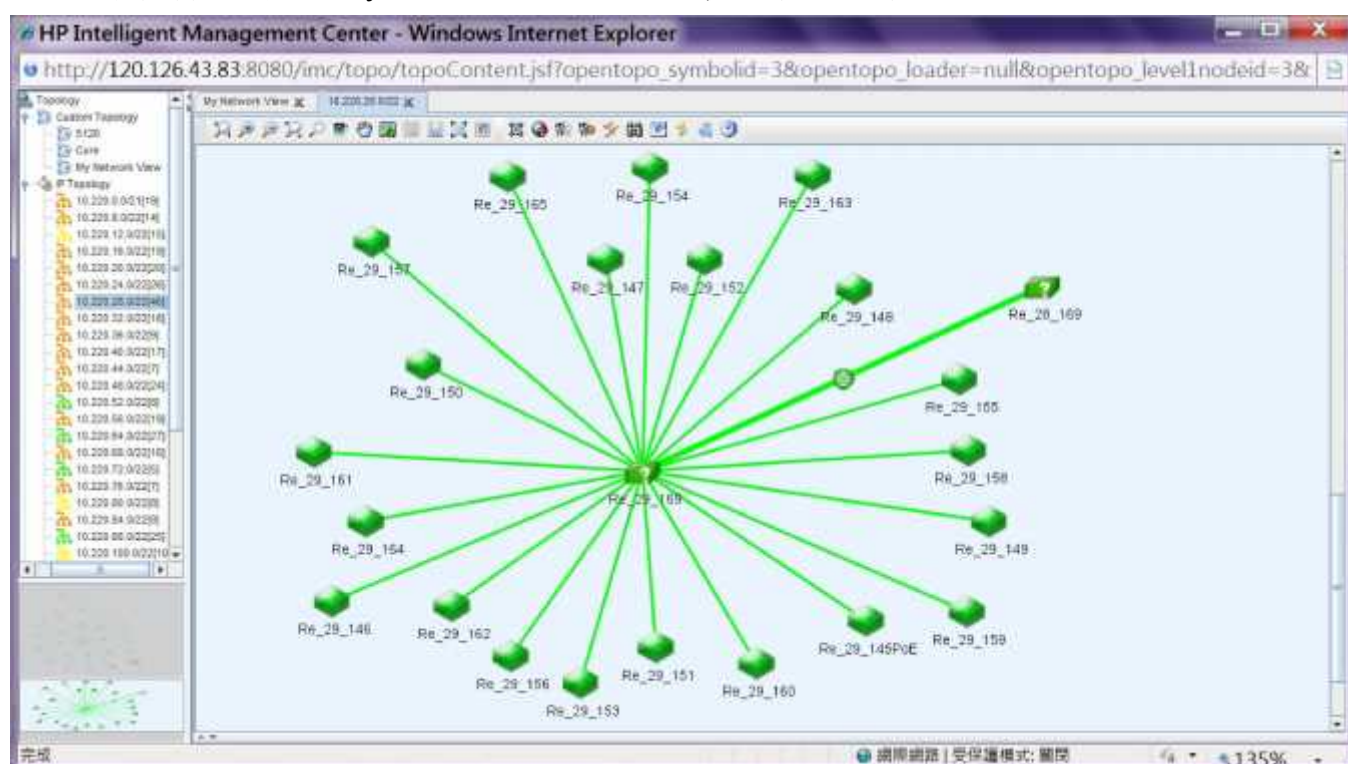
The device manager shows a graphical representation of a network device with various ports and status indicators. The device is labeled 'H3C'.

5.檢視/調整拓樸

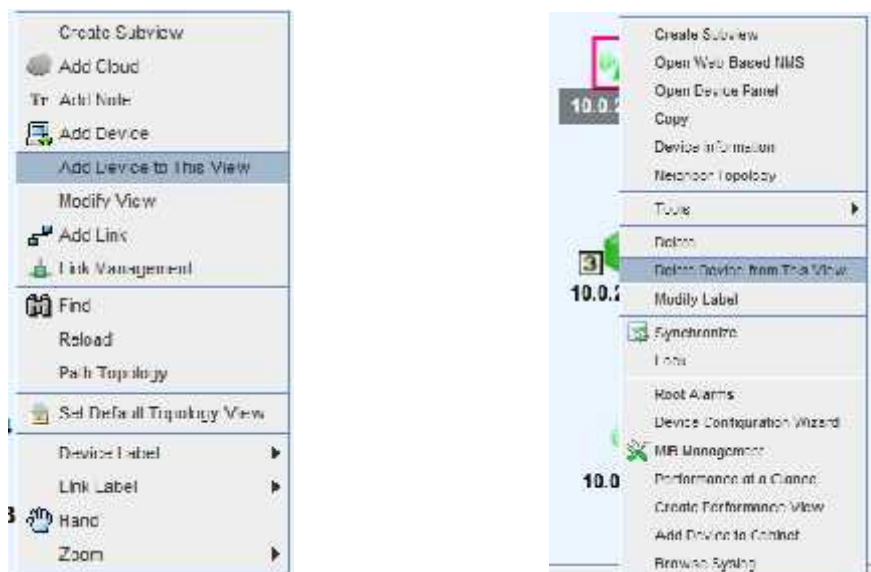
首先可在上方功能列選擇 Network Topology，以開啟拓樸



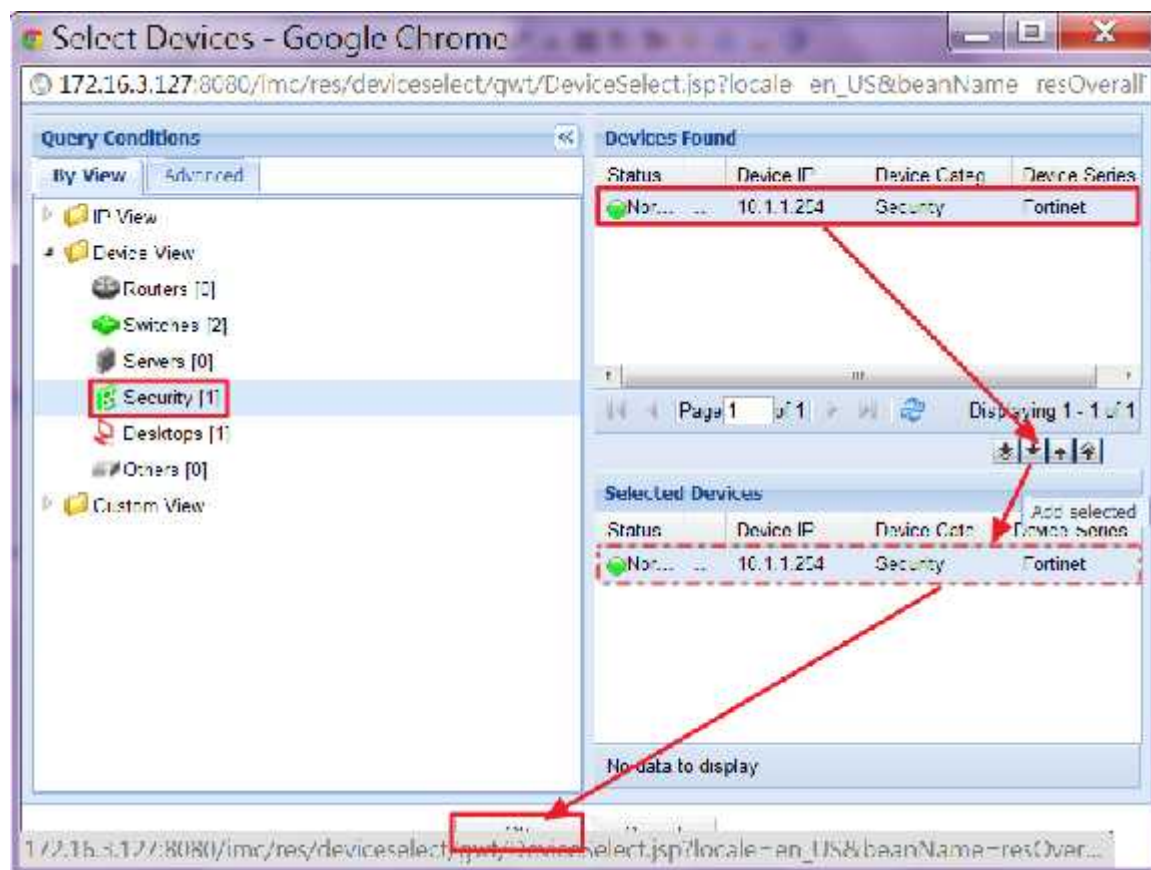
新增的設備會自動加到 My Network View 上，可以使用下列方式調整



新增拓樸上的既有設備：可在拓樸上空白處，按滑鼠右鍵，會出現選單，選擇 Add Device to This View
 移除拓樸上的既有設備：可在設備上按滑鼠右鍵，會出現選單，選擇 Delete Device from This View



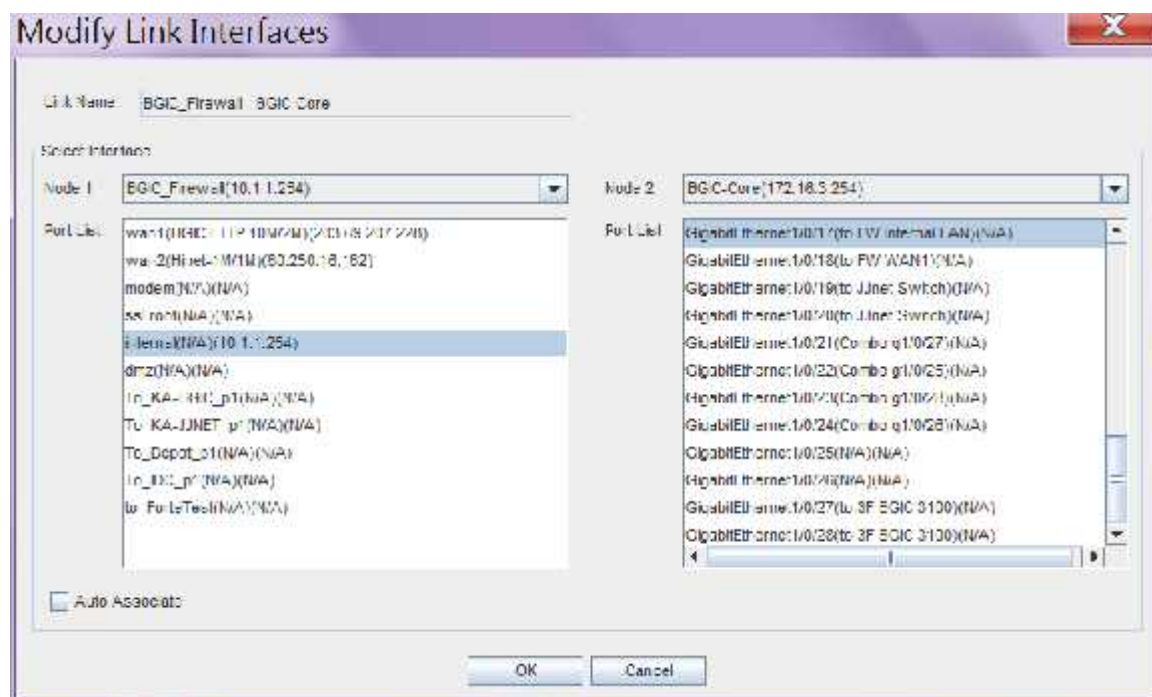
選擇 Add Device to This View 的後續頁面，依序進行後，按 OK 即可在指定拓樸上加入設備



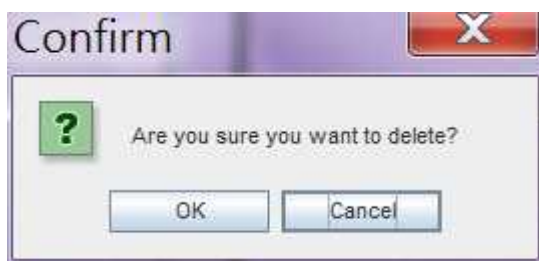
拓樸線路調整：若自動偵測的線路有誤，可手動調整之
在想要調整的線路上按右鍵會出現選單如下圖



選擇 Modify Interface 可手動修改為正確的網路介面

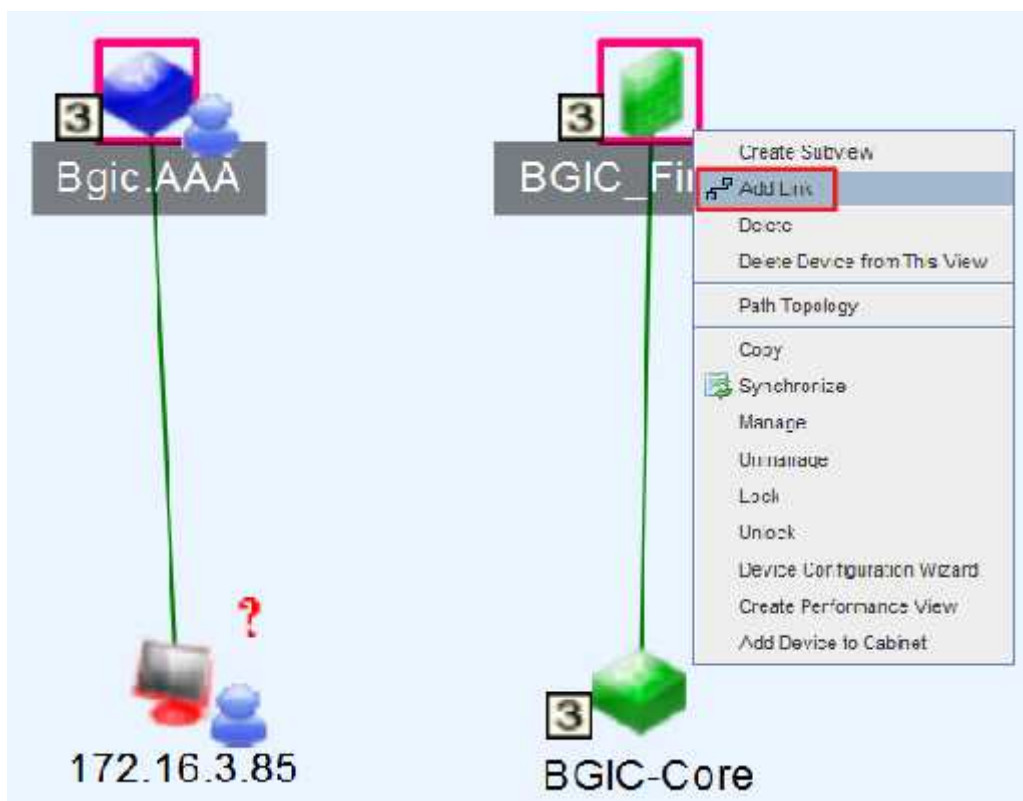


選擇 Delete Link 會出現確認視窗，點選 OK 後會刪除不正確的連線

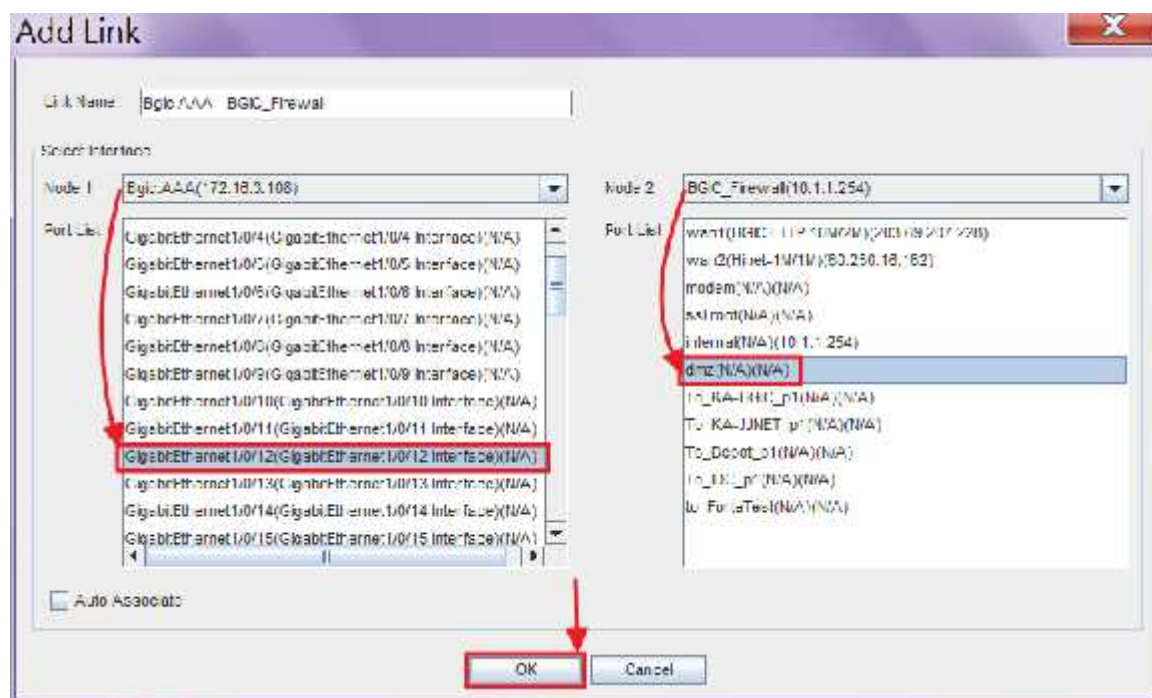


若拓樸上兩設備線路未被偵測到，可以使用手動方式加入

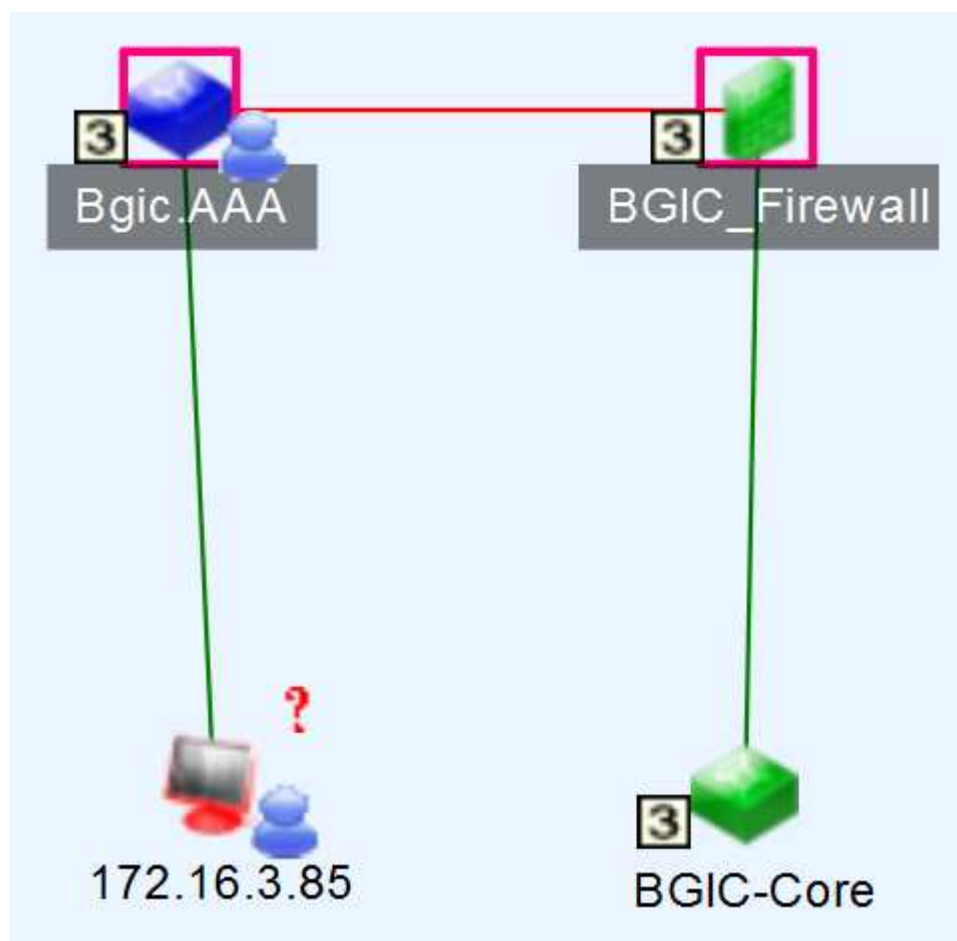
首先按住鍵盤上的 Ctrl 鍵，然後使用滑鼠左鍵點選兩台要加入線路的設備，然後按滑鼠右鍵，出現選單後按選單中的 Add Link



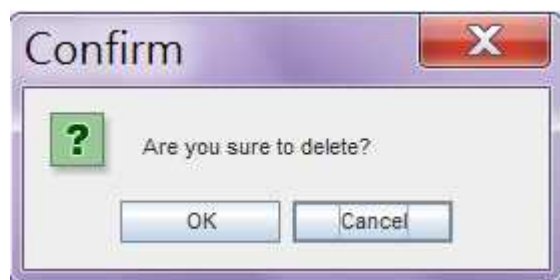
選擇設備對應介面後按下方的 OK



之前兩台設備間沒有的連線會出現(由於是測試，線路並未存在，故呈現斷線的紅色)

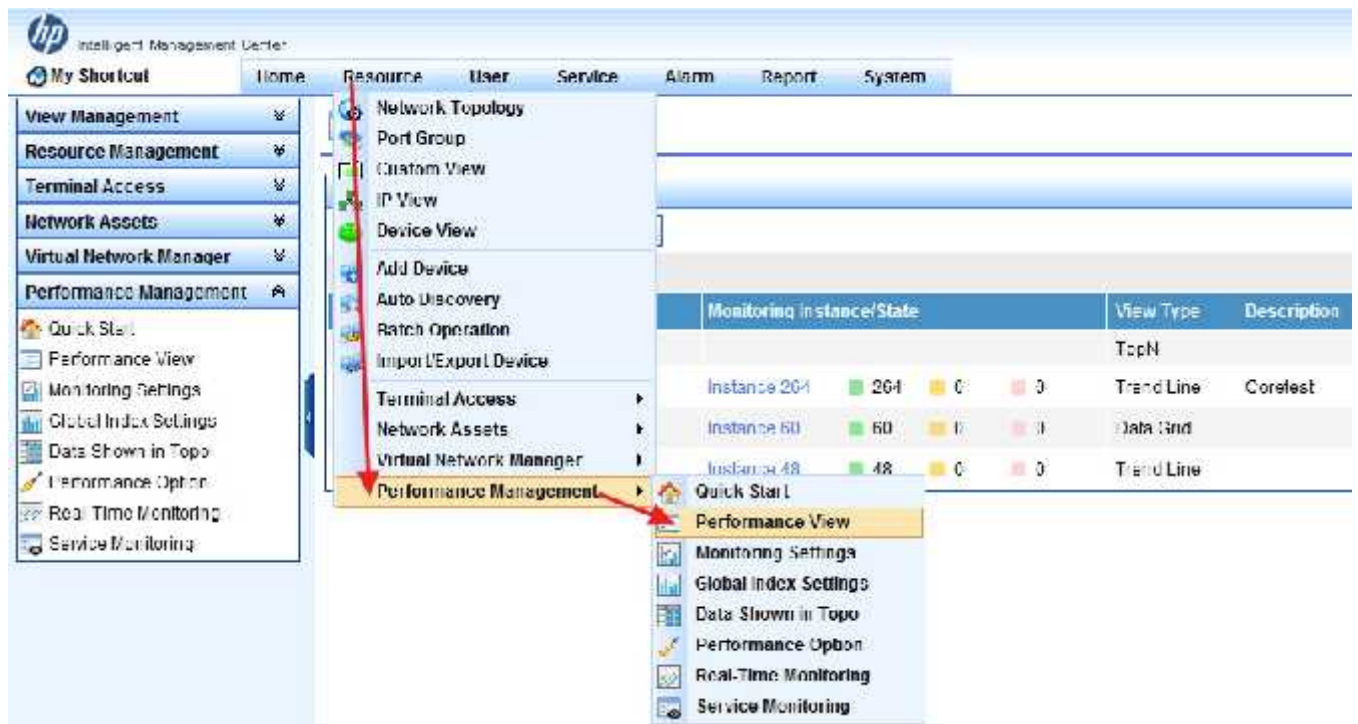


選擇 Delete Device from This View 的後續頁面，按 OK 後會由此拓樸上刪除設備(但仍受 MC 管理)

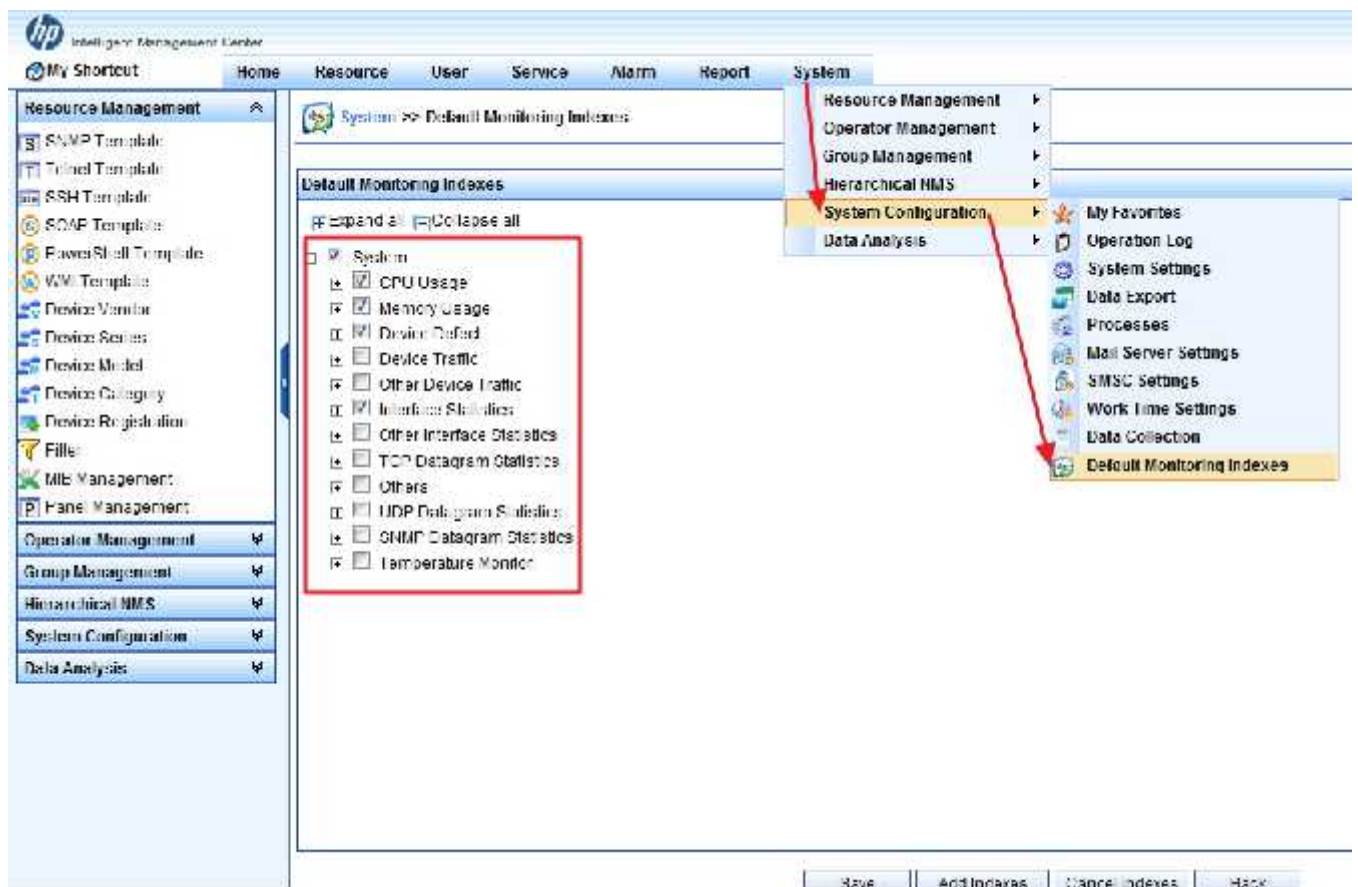


6.效能監控設定

首先先到 Resource\Performance Management\Performance View 頁面



可預先設定設備新增後預設的監控項目



新增檢視，或是修改檢視

Resource User Service Alarm Report System

Resource >> Performance View

Performance View List

Add Delete Refresh

Trend Line or Data Grid

Items per Page: 15 [60] 100 200

Monitoring Instance/State	View Type	Description	Creator	Creation Time	Operation
admin	TopN		admin	2012-05-04 10:48:18	
Core R120 Traffic	Trend Line		bgw	2012-09-06 10:45:19	修改

選擇新增檢視的類型，然後按下方 Next

Add Performance View

Select Index

System - Interface Statistics

System - CPU Usage

System - Memory Usage

System - Device Defect

System - Device Traffic

System - Other Device Traffic

System - Interface Statistics

System - Other Interface Statistics

System - TCP Datagram Statistics

System - UDP Datagram Statistics

System - SNMP Datagram Statistics

System - Temperature Monitor

System - Others

POS Statistics - Caller Trade Statistics

POS Statistics - POS Terminal Statistics

POS Statistics - IP Terminal Trade Statistics

POS Statistics - POS Application Statistics

POS Statistics - FCM Interface Statistics

IPSec VPN - IKE Traffic

IPSec VPN - IKE Global

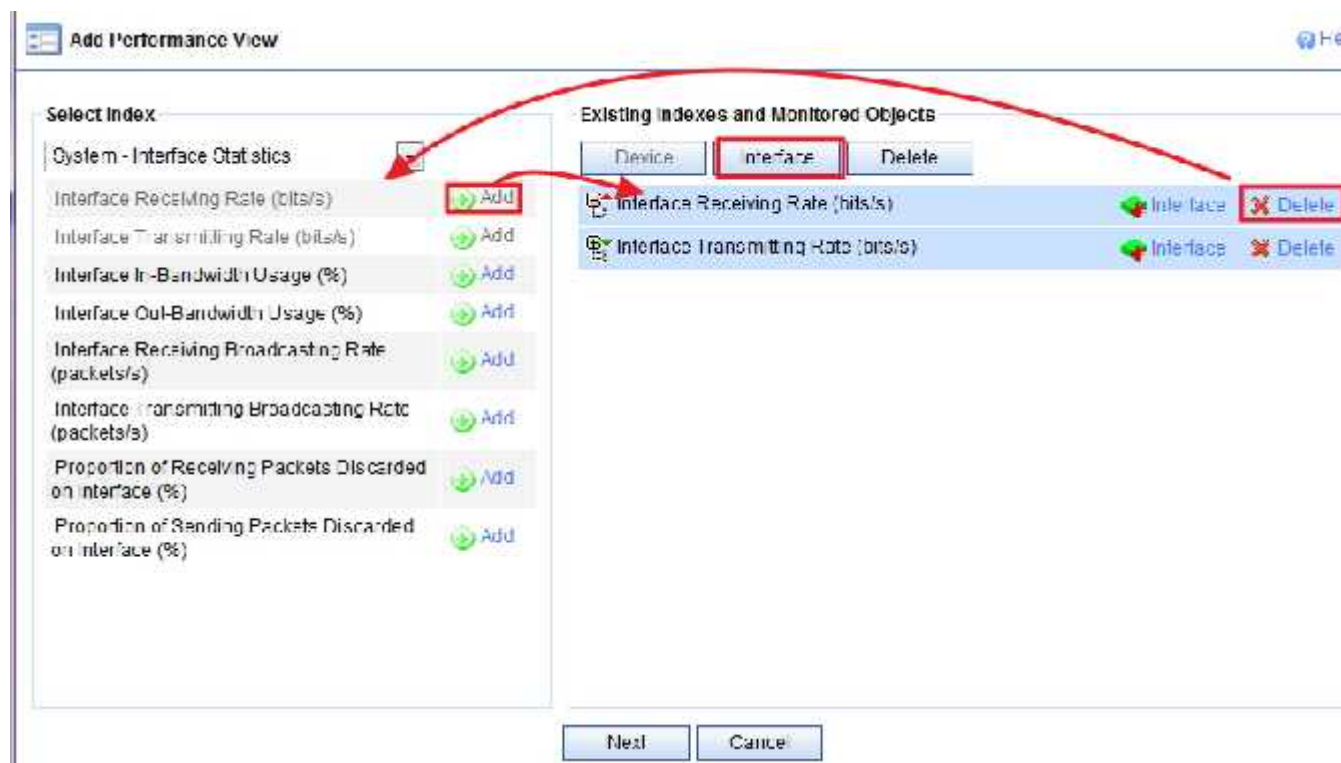
IPSec VPN - IPSec Traffic

Existing Indexes and Monitored Objects

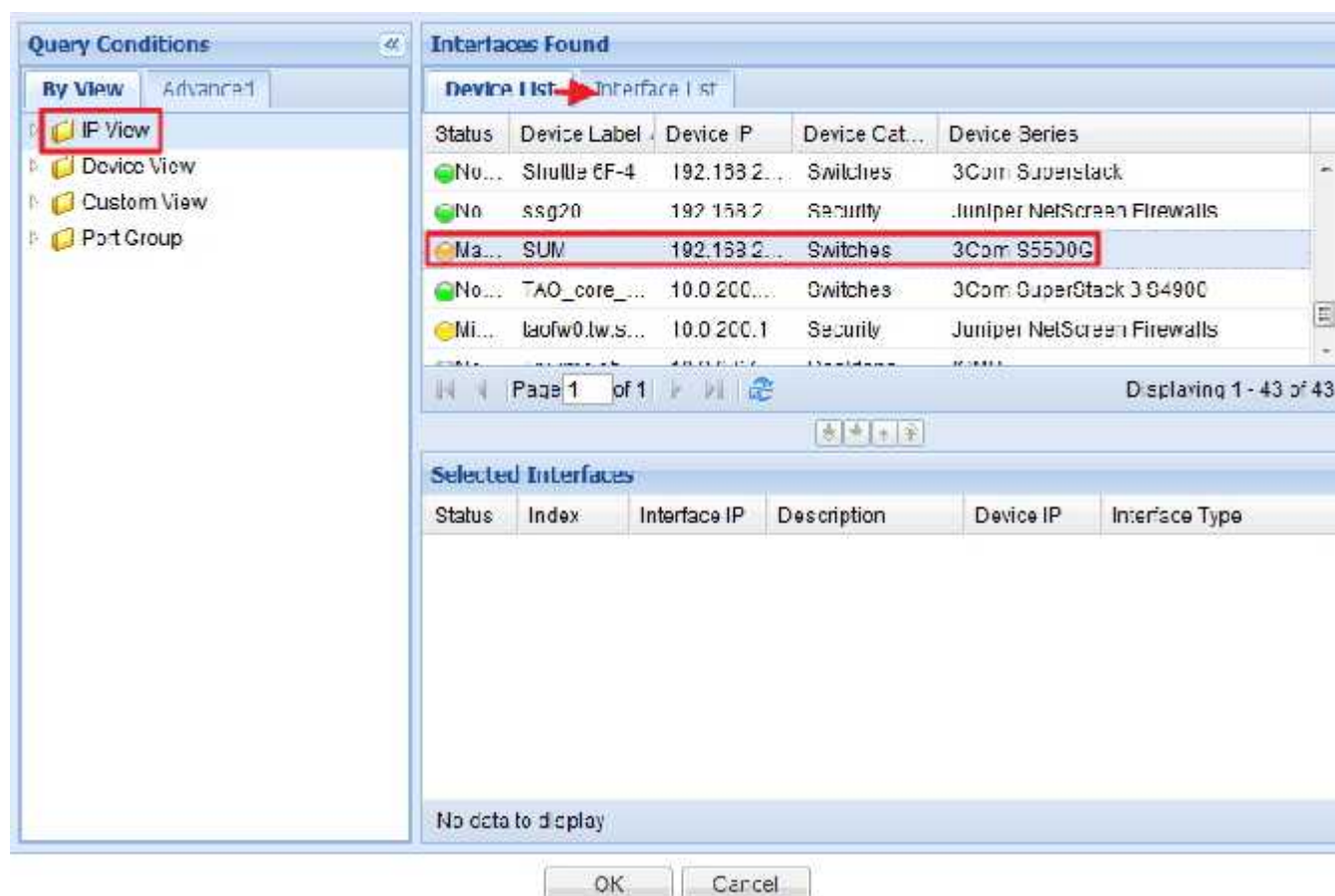
Device Interface Delete

Next Cancel

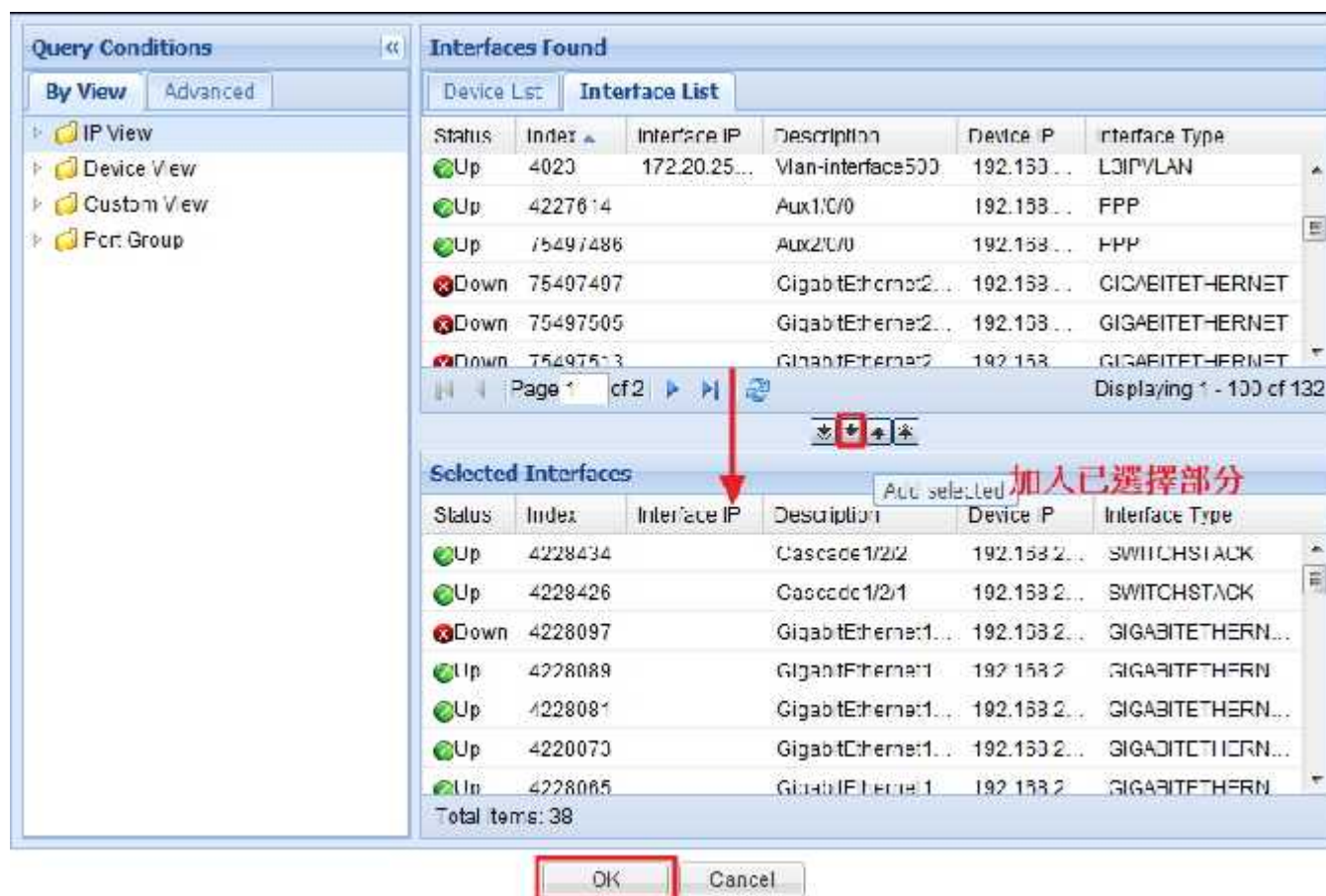
選擇類型中的項目，按一下 Add 新增，然後選擇對應的 Device 或 Interface(流量 by 設備，僅可選 Interface)，然後按 Next



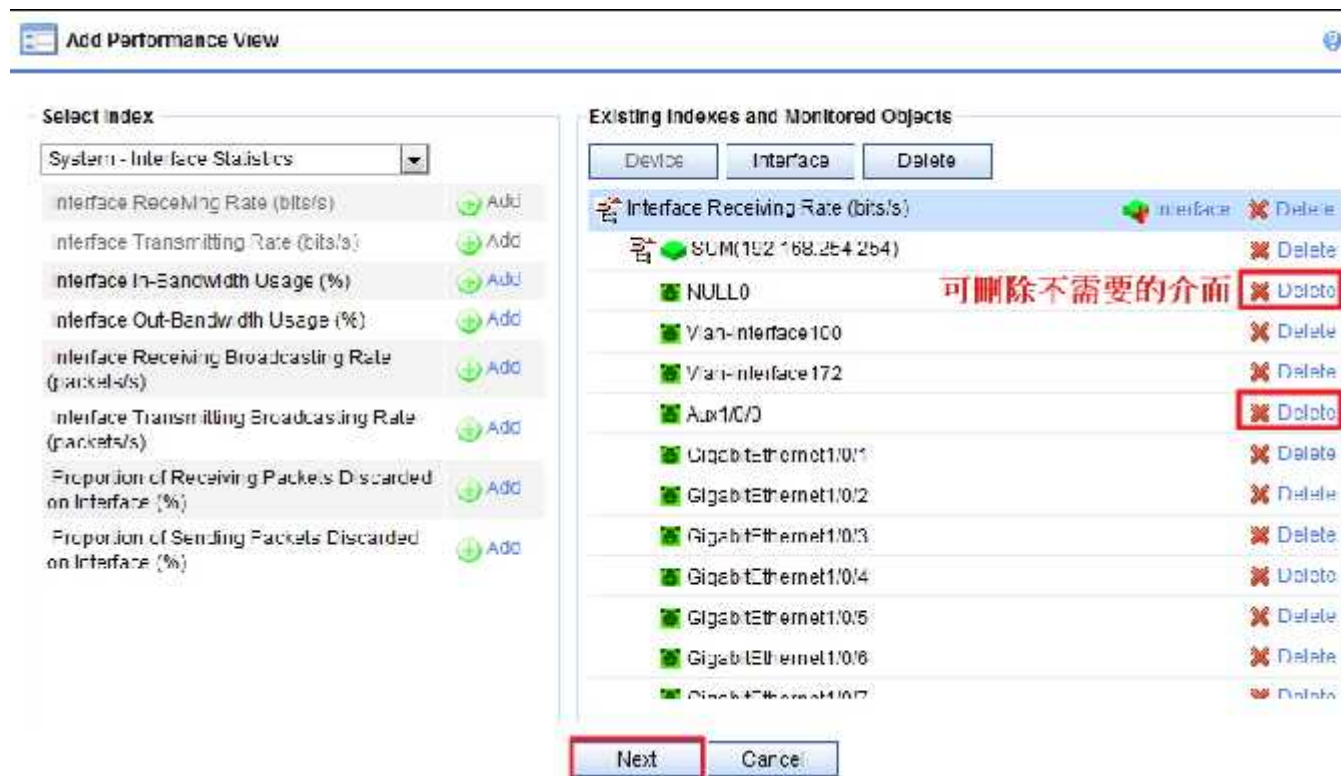
選擇設備，可切换到換介面選擇頁



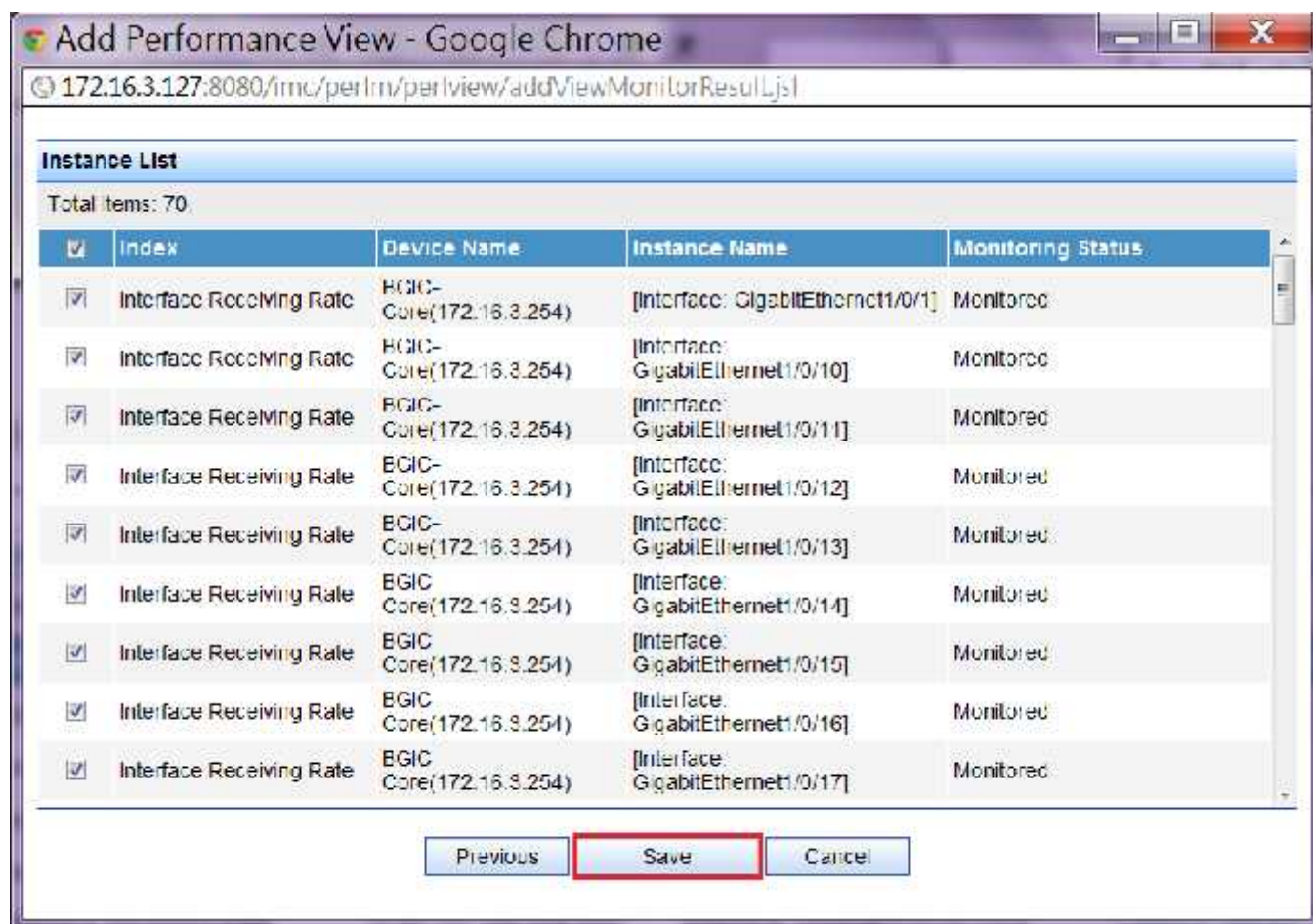
選擇已選擇設備的介面，然後按 OK



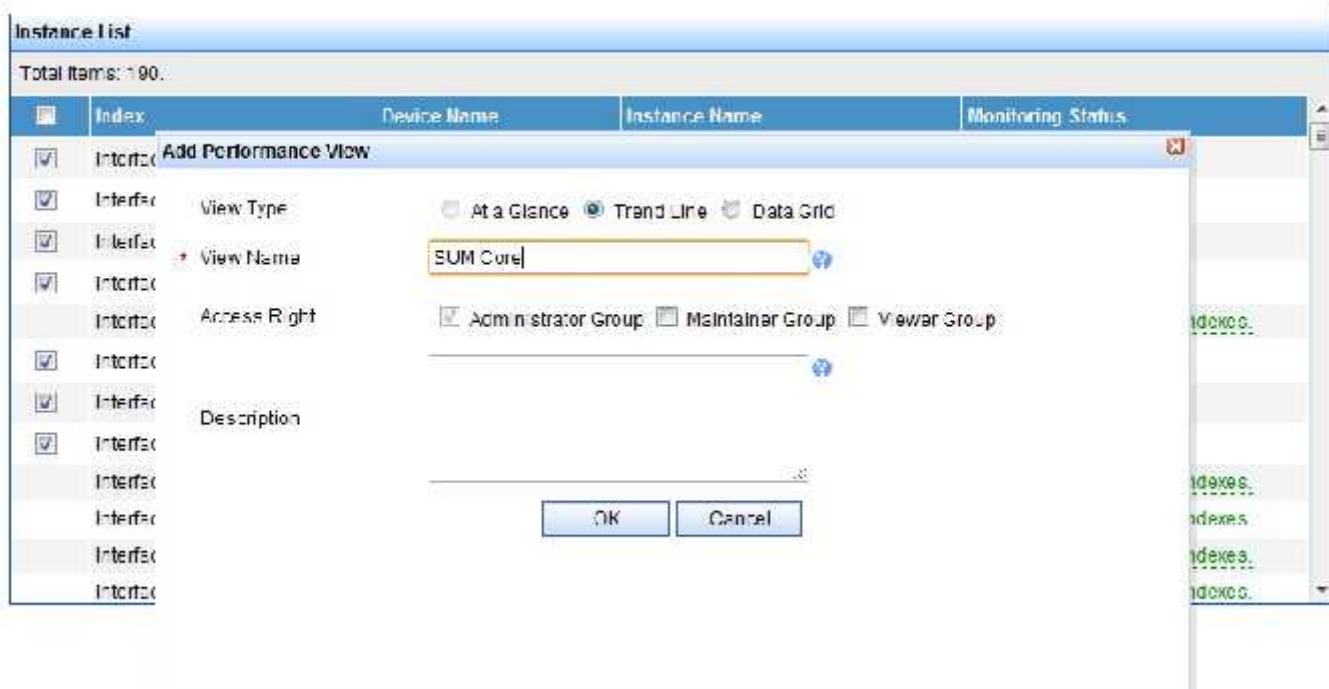
已選擇的介面可刪除不需要的，然後按 Next



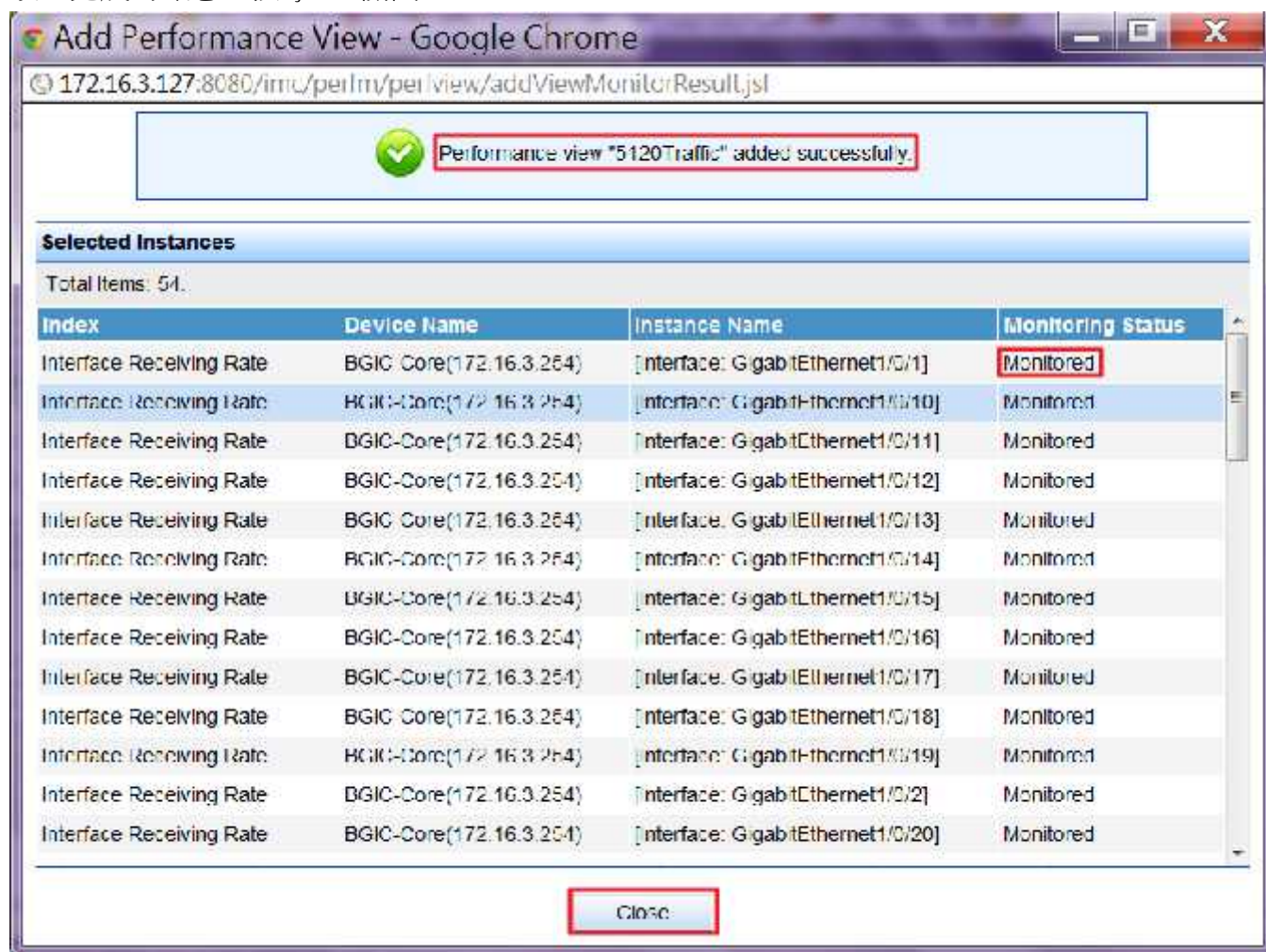
會顯示新增介面的結果，按一下 Save 到下一頁



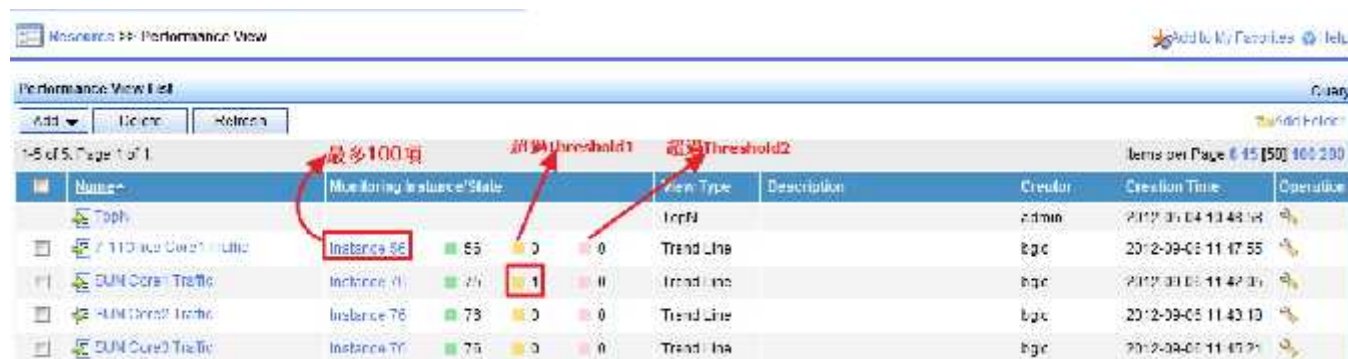
對新增的 Performance View 命名



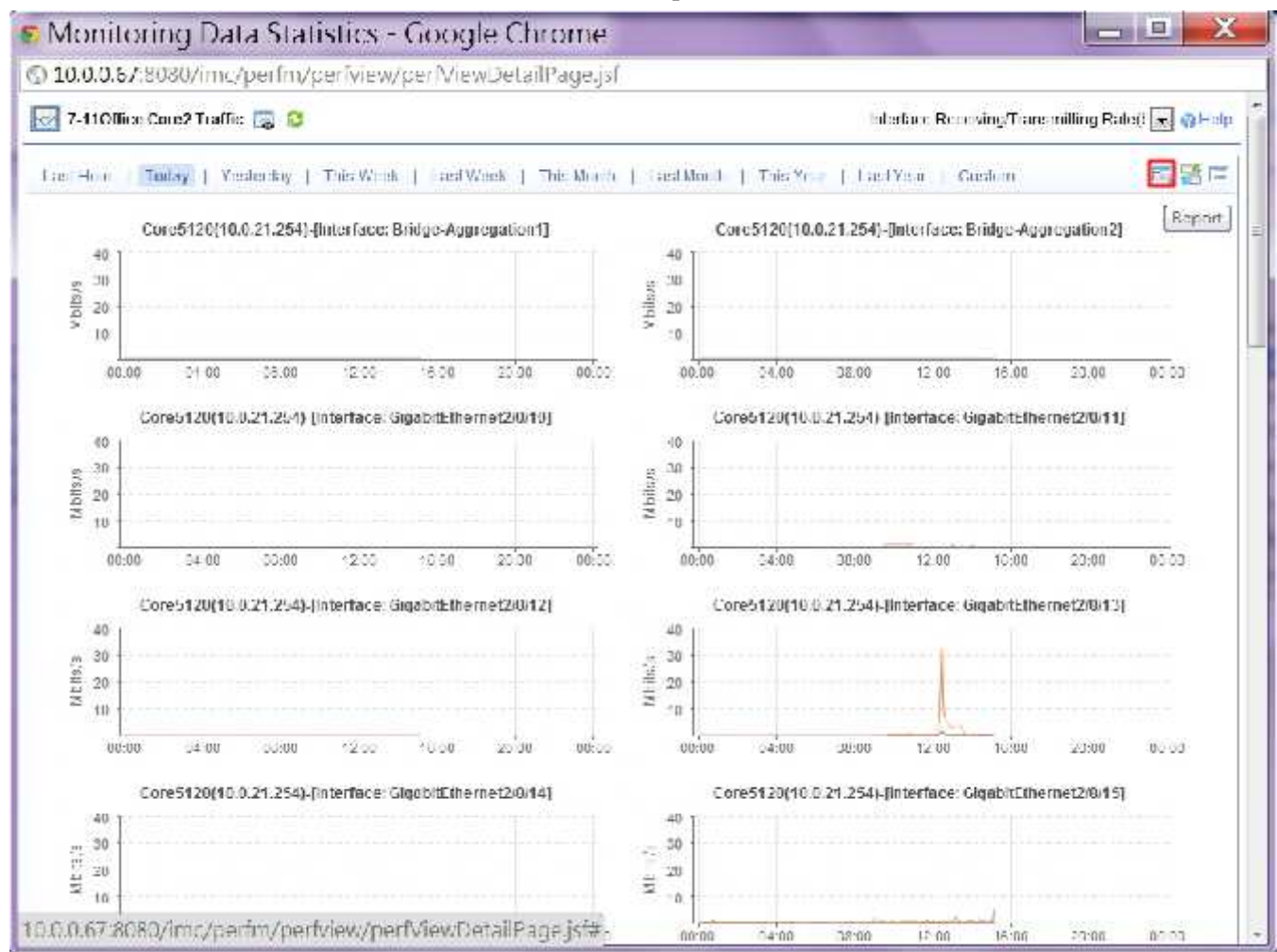
設置完成的訊息，按 Close 關閉



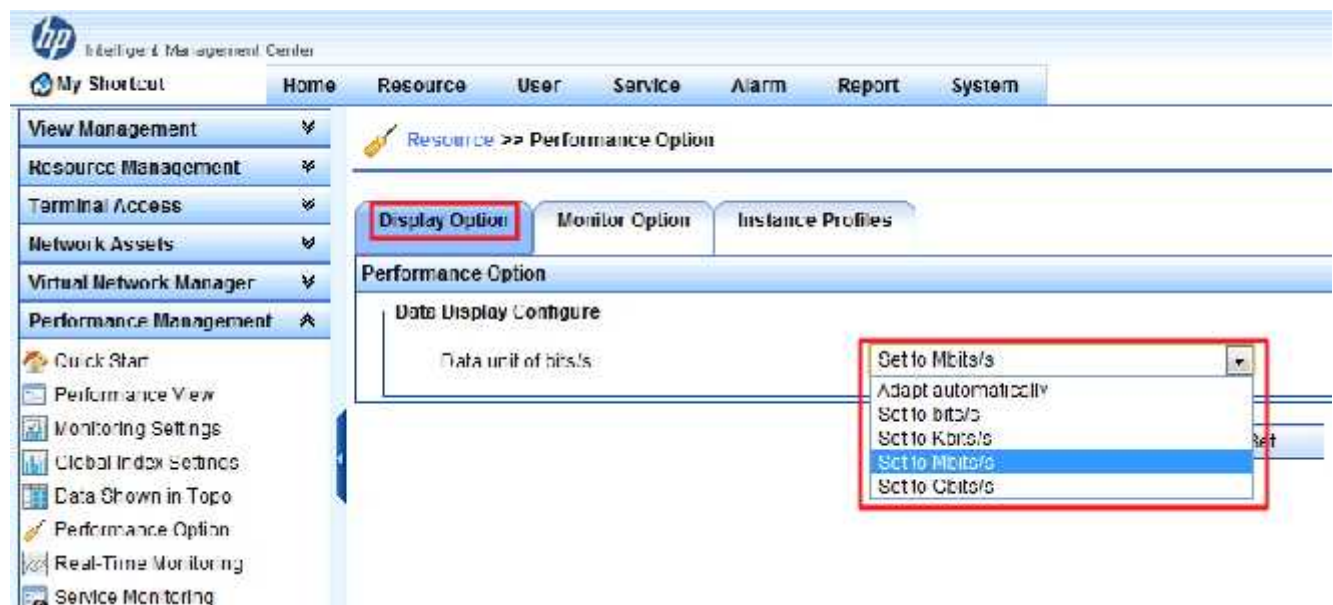
回到 Resource Performance Management\Performance View 頁面，可看到已設置的 Performance View，及狀態檢視



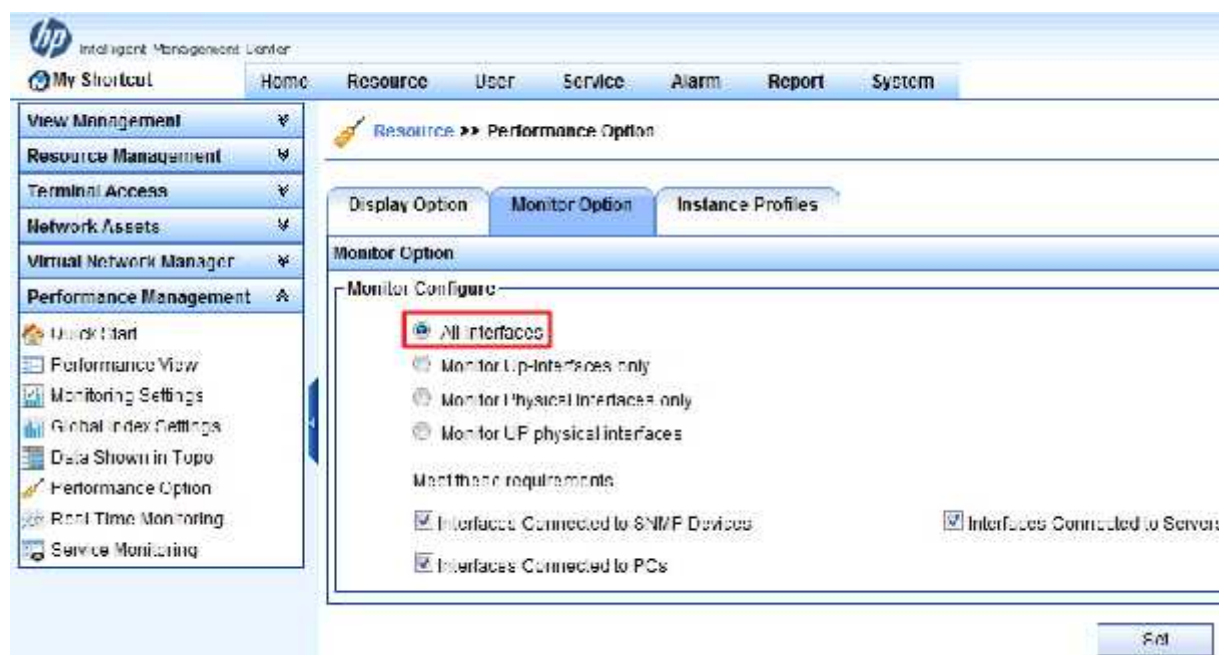
點選 Performance View 看到的流量資訊，右上角 Report 可輸出報表



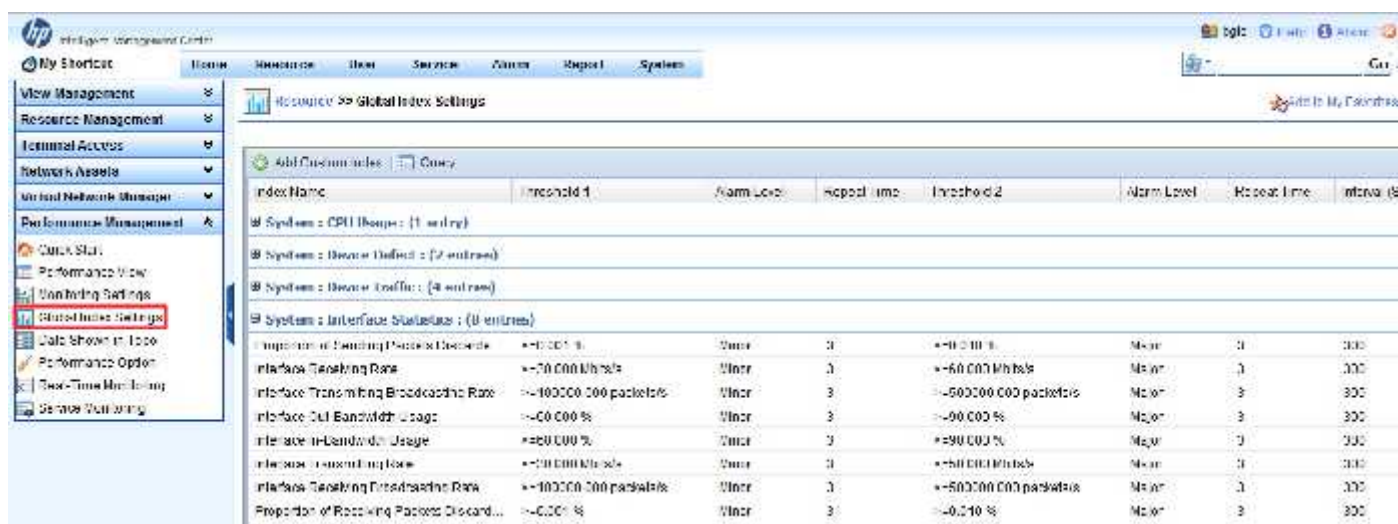
設定顯示單位



建議選擇 All Interface



選擇需要調整界限值的項目



設定界限值 Threshold1/2，以及警告層級

The image shows a 'Modify Index' dialog box with the following fields and values:

Index Name: Interface Receiving Rate	
Threshold 1: ☒ Enable	Threshold 2: ☒ Enable
Match Mode: ≥	Value 1: 50.000
Value 1: 50.000	Measurement: Mbps/s
Measurement: Mbps/s	Repeat Time: 3
Repeat Time: 3	Alarm Level: Major
Alarm Level: Minor	
Interval (Sec.): 300	

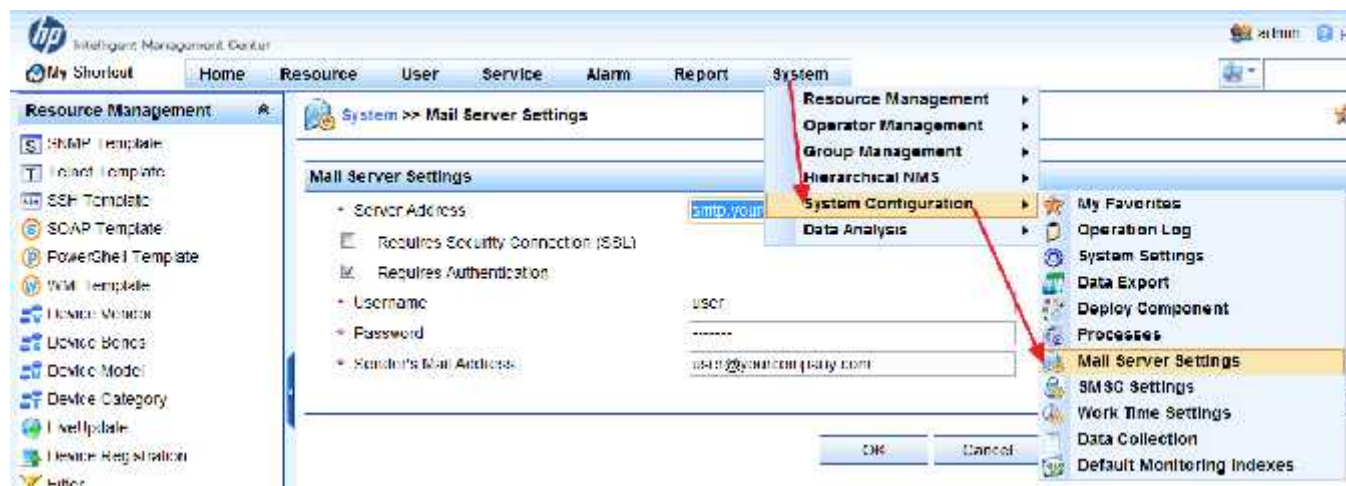
Buttons: OK, Cancel

7. 郵件告警設定

警示通知收件者設定



警示通知寄件者設定



警示通知郵件細部設定，可由此新增收信者，警告層級到某層才會發信

Alarm 等級在畫面左下方，由左至右依序為：Critical、Major、Minor、Warning、Info

1

29

705

4920

0

Add Mail Notification

Rule Name

IMC Alert

Destination Mail Address

Mail Address

eric.hsiao@logic.com.tw

Add

Delete

Concerned Alarm Levels

☒ Critical

☒ Major

☒ Minor

☒ Warning

☐ Info

Concerned Devices

All Devices

Concerned Alarms

All Alarms

Time Ranges

Monday	00:00-24:00	(hh:mm-hh:mm)
Tuesday	00:00-24:00	(hh:mm-hh:mm)
Wednesday	00:00-24:00	(hh:mm-hh:mm)
Thursday	00:00-24:00	(hh:mm-hh:mm)
Friday	00:00-24:00	(hh:mm-hh:mm)
Saturday	00:00-24:00	(hh:mm-hh:mm)
Sunday	00:00-24:00	(hh:mm-hh:mm)

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8. 設定備份/派送

選擇需備份設定的 Sw itch 並依下圖方式按右下的 Configuration History 連結

The screenshot shows the HP Intelligent Management Center (IMC) interface. The 'Resource' tab is selected, displaying a list of devices. The device 'BGIC-Core(172.16.3.254)' is highlighted. A red arrow points from the 'Configuration History' link in the left sidebar to the 'Configuration History' link in the top right corner of the device details page.

按 Backup 連結後，會開始進行 Sw itch 設定備份

The screenshot shows the HP Intelligent Management Center (IMC) interface, specifically the 'Configuration Management' page for the device 'BGIC-Core(172.16.3.254)'. The 'Backup' button is highlighted. Below the device details, the 'Configuration Backup History' table is visible, showing a list of backup operations.

Version	File Name	Type	Backup Time	Modify	Restore	Compare	Make Baseline	Save As
Common	172.16.3.254_running_20120910144233_1.cfg	Running	2012-09-10 14:42:33					
Common	172.16.3.254_startup_20120910144233_1.cfg	Startup	2012-09-10 14:42:33					
Baseline	172.16.3.254_running_20120910112005_1.cfg	Running	2012-09-10 11:20:05					
Baseline	172.16.3.254_startup_20120910112005_1.cfg	Startup	2012-09-10 11:20:05					

備份程式執行中

The screenshot shows the HP Intelligent Management Center (IMC) interface, specifically the 'Configuration File Backup Result' page. A progress bar indicates the backup is in progress. Below the progress bar, a table shows the backup details.

Device Name	Device Model	File Type	Time	Result
			2012-09-10 14:58:11	Start to backup configuration file

備份完成的訊息

Configuration File Backup Result						
 Device configuration files manually backed up. Total: 1, backed up: 1, failures: 0.						
Device Name	Device Model	File Type	Time	Result	Configuration File Name	Det
			2012-09-10 14:56:55	 Backup configuration files. Total: 2, running files: 1, startup files: 1.		
BOC-Core(172.16.3.254)	H3C S5100-26C-EI	Startup	2012-09-10 14:56:54	 Backup done.	172.16.3.254_startup_20120910144231_1.cfg	
BOC-Core(172.16.3.254)	H3C S5100-26C-EI	Running	2012-09-10 14:56:54	 Backup done.	172.16.3.254_running_20120910144226_1.cfg	
			2012-09-10 14:56:41	 Start to backup configuration file.		

點選已備份列表可檢視設定內容

Configuration Backup History

Software Update History

Compare

Delete

Configuration File Version

All

1-4 of 4. Page 1 of 1.

Items per Page: 8 15 50

	Version	File Name	Type	Backup Time ↑	Modify	Restore	Compare	Make Baseline
	 Common	172.16.3.254_running_20120910144226_1.cfg	Running	2012-09-10 14:56:53				
	 Common	172.16.3.254_startup_20120910144231_1.cfg	Startup	2012-09-10 14:56:53				
	 Baseline	172.16.3.254_running_20120910112035_1.cfg	Running	2012-09-10 11:20:35				
	 Baseline	172.16.3.254_startup_20120910112032_1.cfg	Startup	2012-09-10 11:20:32				

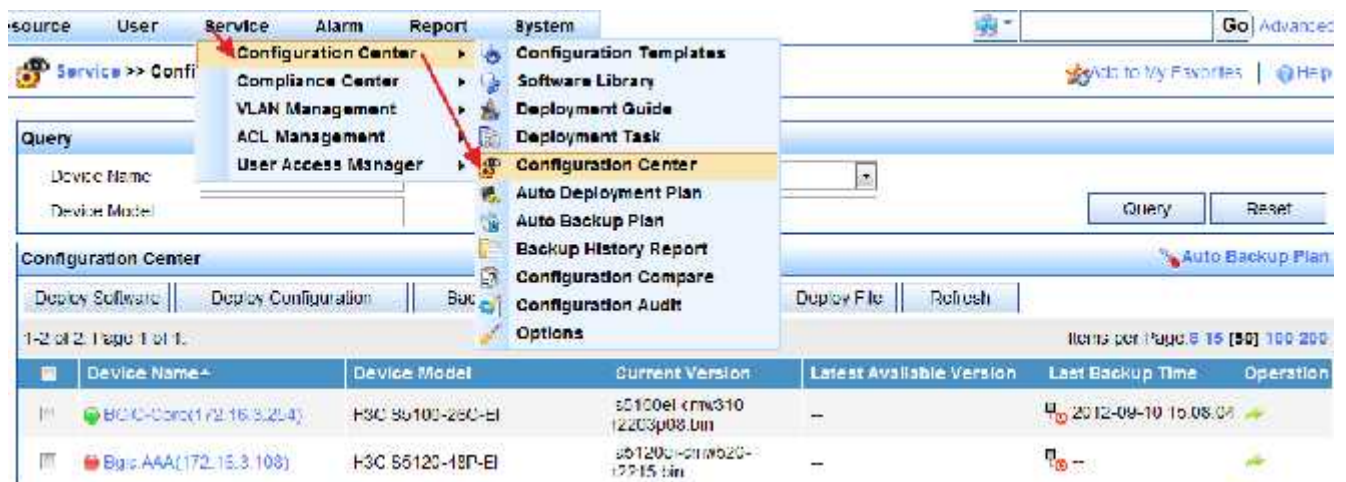
Configuration File Details

Source Device	 BGIC-Core(172.16.3.254) Unit1
File Name	172.16.3.254_startup_20120910144231_1.cfg
File Type	Startup Configuration File
Backup Time	2012-09-10 14:56:53
Version Type	Common Version
Description	--
Content	<pre># sysname BGIC-Core # local-server nas-ip 127.0.0.1 key 3com # dhcp-server 0 ip 172.16.2.10 # igmp-snooping enable # mirroring-group 1 local # link-aggregation group 1 mode manual link-aggregation group 2 mode manual # radius scheme system # domain system "</pre>

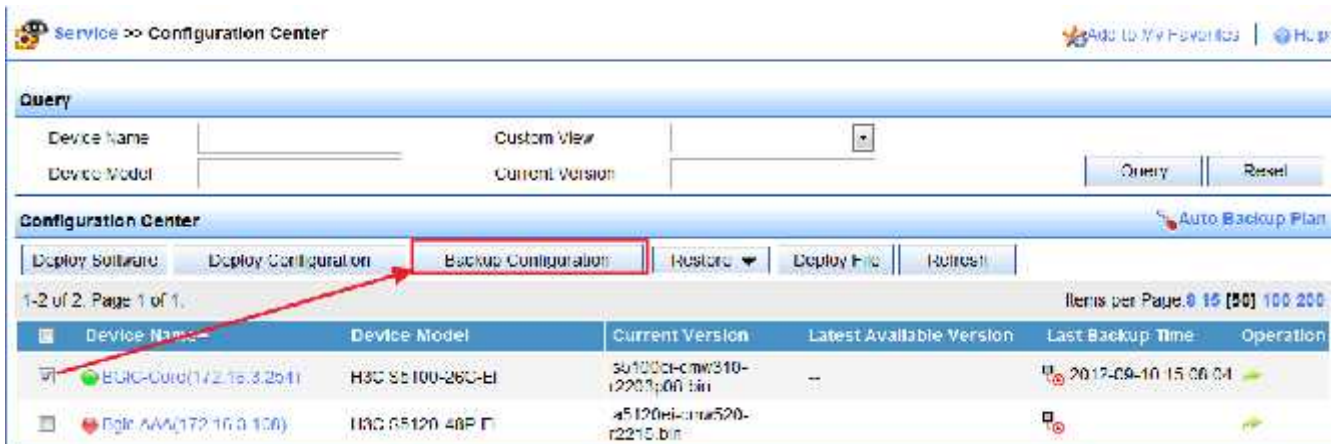
MC 主機上，備份目錄位置



大量設備建議備份方式



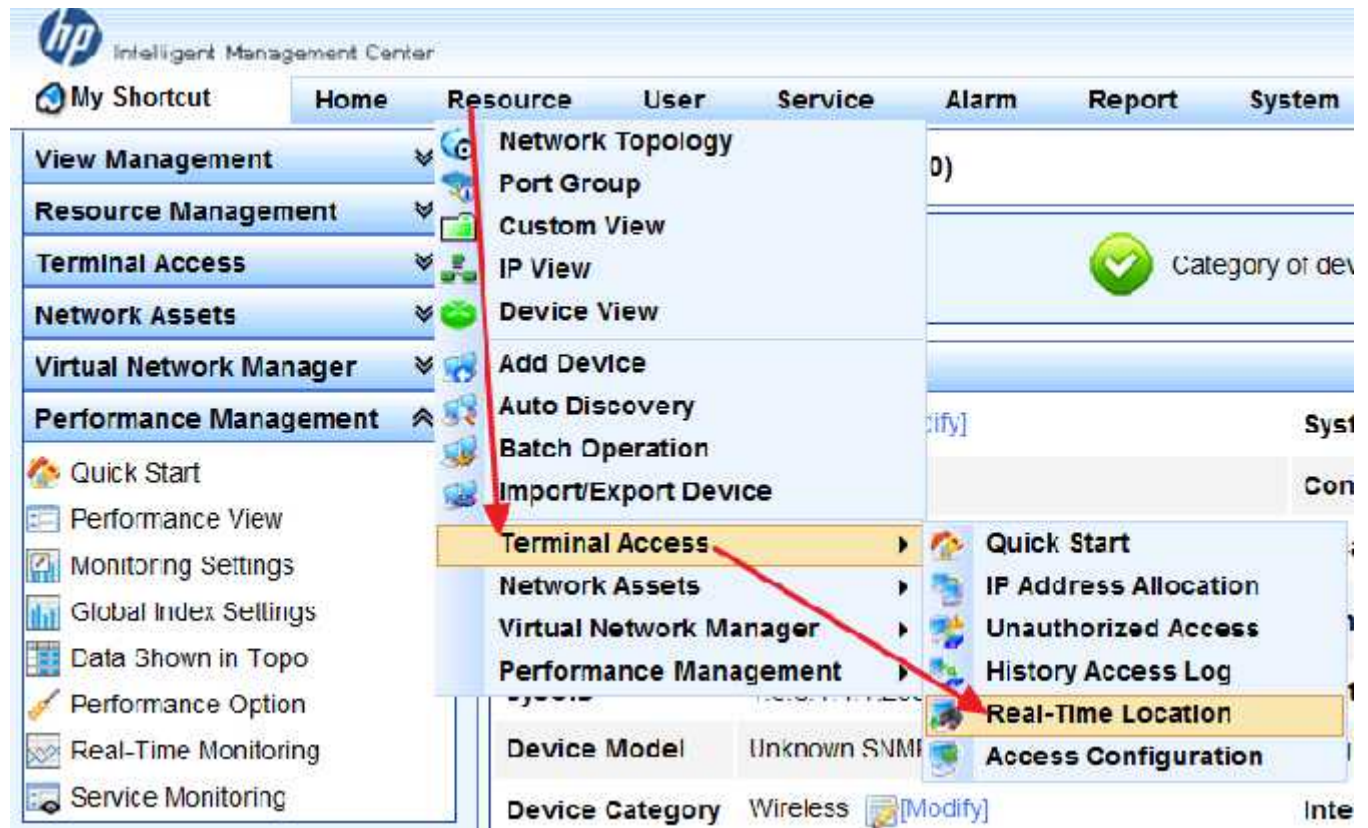
需要備份的設備打勾，然後按 Backup Configuration 按鈕



9.其他常用功能

9.1 以 IP 或 MAC 查詢連接的節點

由功能表選擇 Resource Terminal Access Real Time Location，進入查詢介面



進入後輸入 IP 或 MAC 可查詢設備所在位置

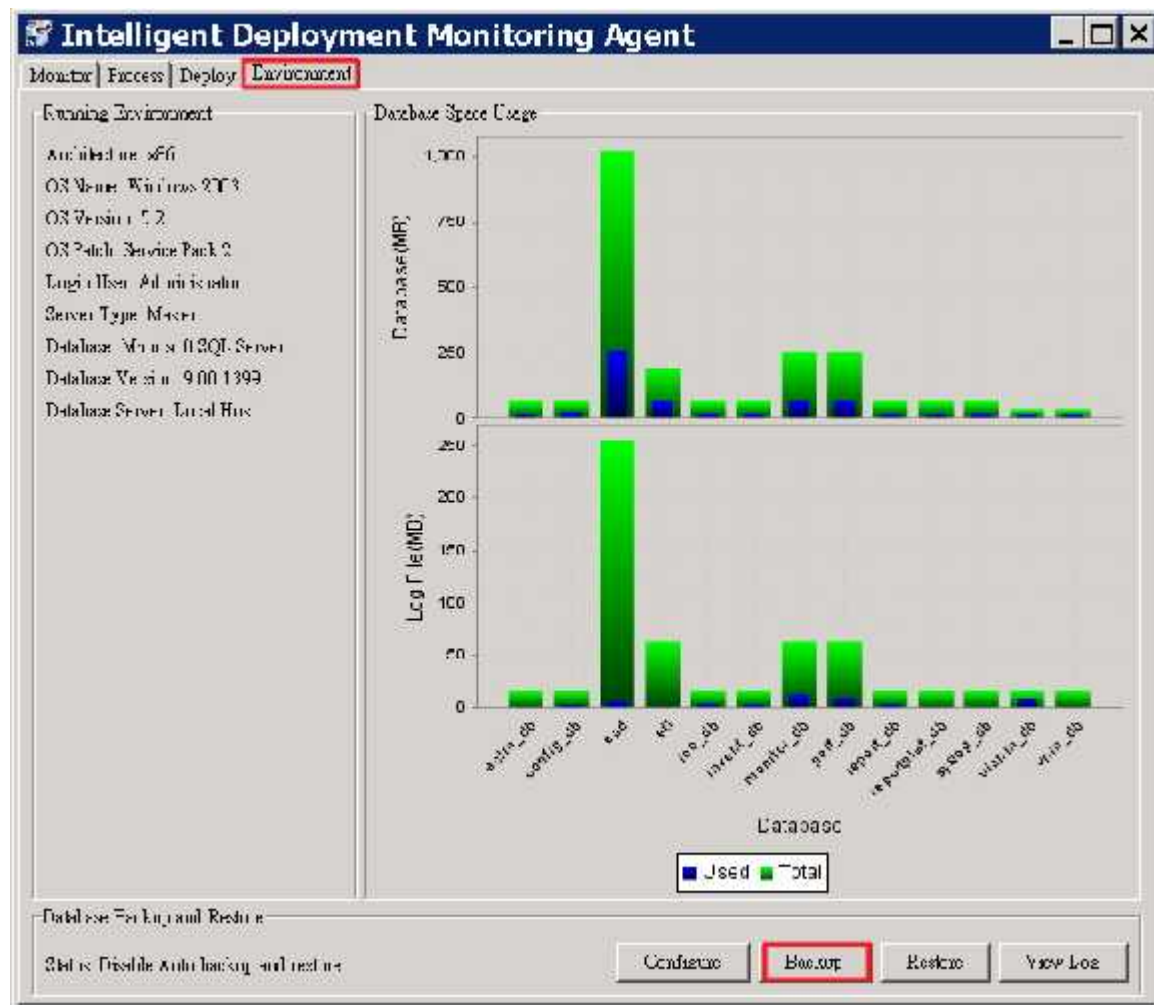


9.2 備份 MC 資料庫

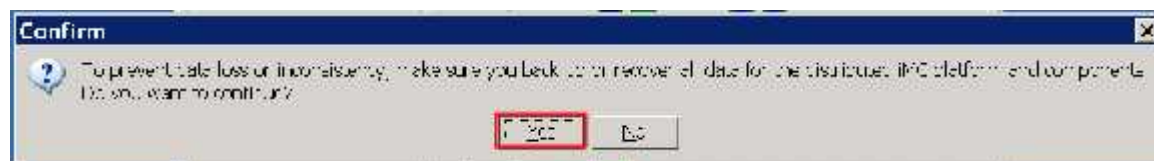
點選 MC 主機上，右下角工具列的 MC icon



出現下圖畫面後翻到 Environment 頁面，然後點選下方 Backup 按鈕即可



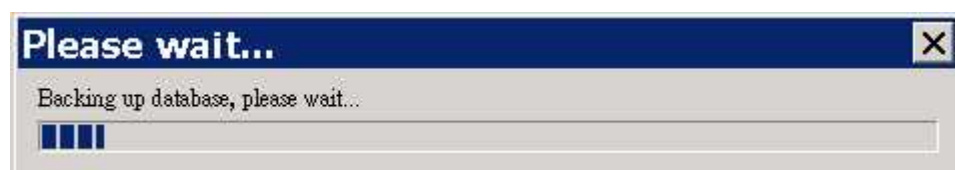
按 Yes 按鈕繼續流程



指定備份路徑



備份進行中

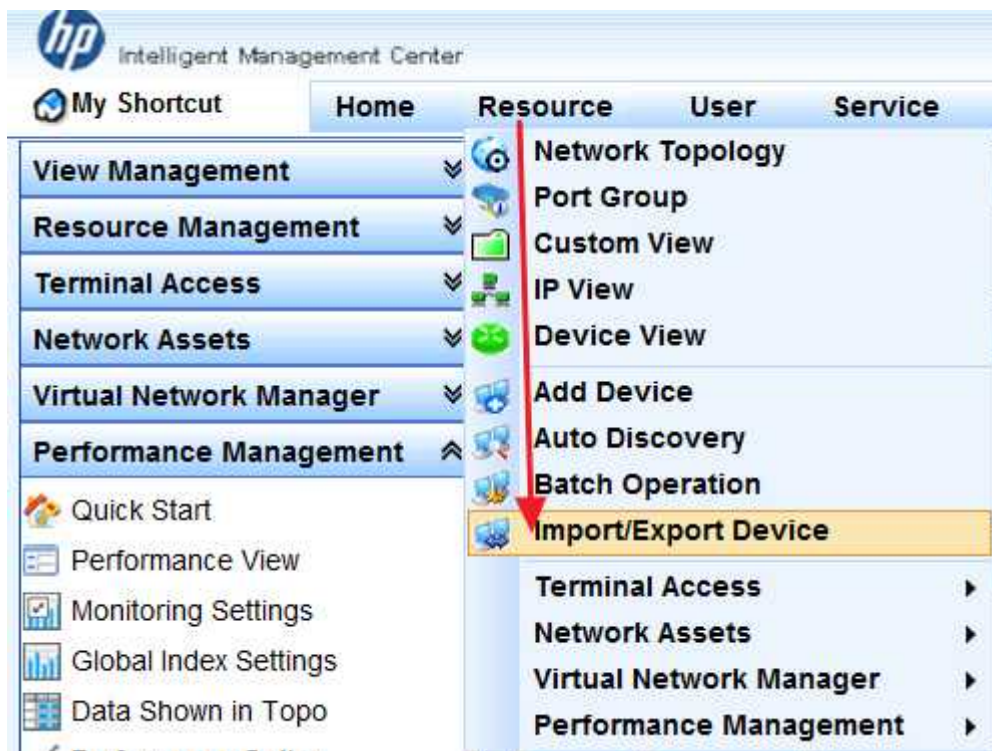


已備份的資料庫檔案

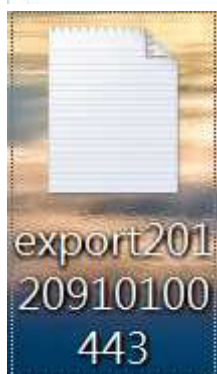
sys_oq_db_backup_db_201209100000.bak	1,109 KB	BAK 檔案	2012/9/10
5 1.E0202P05-adm_db_imc_adm_db_20120910_141...	2,133 KB	資料庫檔案	2012/9/10
5 1.E0202P05-etl_et_db_20120910_141750_full.db	2,133 KB	資料庫檔案	2012/9/10
plat_20120910_141751.zip	4,767 KB	WinRAR ZIP 壓縮檔	2012/9/10
5 1.E0202P05-config_db_imc_config_db_20120910_1...	3,277 KB	資料庫檔案	2012/9/10
lec_20120910_41835.zip	819 KB	WinRAR ZIP 壓縮檔	2012/9/10
5 1.E0202P05-icm_db_imc_icm_db_20120910_41835...	3,157 KB	資料庫檔案	2012/9/10
5 1.E0202P05-invent_db_imc_inventory_db_20120910...	3,157 KB	資料庫檔案	2012/9/10
5 1.E0202P05-monitor_db_imc_monitor_db_2012091...	7,253 KB	資料庫檔案	2012/9/10
5 1.E0202P05-perf_db_imc_perf_db_20120910_14185...	0 KB	資料庫檔案	2012/9/10
5 1.E0202P05-reportplat_db_reportplat_db_20120910...	2,133 KB	資料庫檔案	2012/9/10
5 1.E0202P05-sys_oq_db_imc_syslog_db_20120910_1...	5,205 KB	資料庫檔案	2012/9/10
5 1.E0301P03-eac_eac_db_20120910_141857_full.db	5,209 KB	資料庫檔案	2012/9/10
5 1.E0202P05-vlanm_db_vlan_db_20120910_141859...	2,131 KB	資料庫檔案	2012/9/10
5 1.E0202P05-vrm_db_imc_vrm_db_20120910_1419...	2,131 KB	資料庫檔案	2012/9/10

9.3 匯出/匯入 Switch 在 MC 的設定

選擇 Resource\Import/Export Device 到匯出匯入頁面



匯出頁面及匯出的檔案



匯入頁面



Export Import Import Devices from NMMi

Recreate device information in IP view based on the original device information.

Tips

For security, the password and private key of the devices will not be imported. You should do it manually.

Input File 選擇檔案 未選擇檔案

Import

Import 完成的訊息

 **Resource >> Device Import Result**

2012-09-10 14:35:32 Importing device started.

Import: BGIC-Core[172.16.3.254], Device "BGIC-Core" already exists.

Import: Bgic.AAA[172.16.3.108], Device "Bgic.AAA" already exists.

Import: 172.16.3.85[172.16.3.85], Device "172.16.3.85" already exists.

2012-09-10 14:35:34 Importing device ended.

Success:0

Failure:3

10. 附錄

10.1 HPA 5120 新安裝時，如何進行基本設定以便 MC 納入管理的流程？

解決方法：

1 設定管理 IP

```
<Sysname> system -view
[Sysname] interface vlan-interface 1
[Sysname-Vlan-interface1] ip address 1.1.0.1 255.255.255.0
```

2 開啟設備的 SNMP Agent 功能。

```
<Sysname> system -view
[Sysname] snmp-agent
[Sysname] snmp-agent sys-info version all
[Sysname] snmp-agent community read public
[Sysname] snmp-agent community write private
```

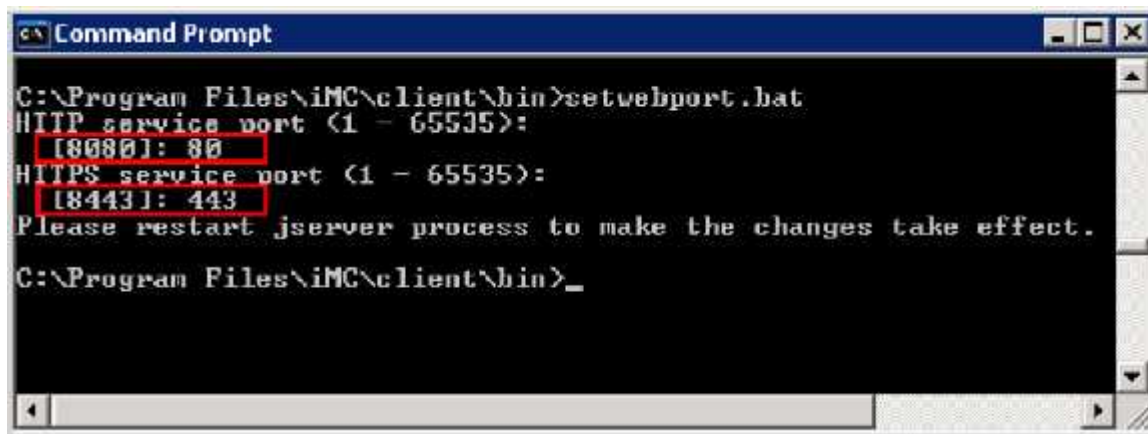
3 設定使用者帳密及服務。

```
<Sysname> system -view
[Sysname] local-user admin
[Sysname-luser-admin]
[Sysname-luser-admin] password simple 123456
[Sysname-luser-admin] service-type telnet terminal ssh
[Sysname-luser-admin] quit

[Sysname] user-interface vty 0
[Sysname-ui-vty0] authentication-mode
```

10.2 MC 安裝完成後，如何修改 MC 伺服器的 Web 服務埠號？

解決方法：MC 提供了修改 Web 伺服器埠號的工具。Windows 環境下使用命令列視窗(cmd.exe) 進入“MC 安裝路徑\client\bin\”目錄，然後直接執行工具 setwebport.bat，根據提示輸入修改後的埠號。執行結果如圖 5-2 所示，將 MC 伺服器的 HTTP 埠號由 8080 修改為 80，HTTPS 埠號由 8443 修改為 443。



```
C:\Program Files\iMC\client\bin>setwebport.bat
HTTP service port (1 - 65535):
[8080]: 80
HTTPS service port (1 - 65535):
[8443]: 443
Please restart jserver process to make the changes take effect.
C:\Program Files\iMC\client\bin>
```

10.3 為什麼有些設備的 Web 網管介面無法打開？

解決辦法：Web 網管功能受限於設備端的配置，只有選擇的設備支援並且啟動了 Web 網管，該功能才能正常使用。

10.4 網路中的一台設備被替換後，如果新設備的 IP 位址與原設備的 IP 位址不同，網路拓撲中的拓撲計算不正確，怎麼辦？

這是由於原設備搶佔了新設備在網路拓撲中的位置，MC 無法獲知原設備已被替換。

解決辦法：

- 1 可以將原設備從 MC 中刪除，然後手工同步新設備。
- 2 將新設備的管理位址設置為與原設備相同，然後手工同步新設備。

10.5 為什麼在增加一個僅大小寫不同的同名 View 時，提示該 View 已存在？

解決方法：由於 SQL Server 資料庫不區分大小寫，因此對於“ROUTER”和“router”這樣的輸入，系統將認為是同一條記錄，並提示該 View 已存在。在其他要求唯一性的輸入框中，也請注意大小寫問題，以免操作失敗。

10.6 MC 系統運行一段時間之後，出現記憶體佔用過高且不能恢復，如何處理？

解決方法：可以通過修改 SQL Server 最大緩衝區記憶體解決。方法如下：

執行“安裝目錄\client\bin\setsqlservem axm em .bat”腳本，參數如下：

- 1 -server IP address：伺服器 IP 位址（可選參數，預設情況下顯示本機 IP 地址）；
- 2 -saPw d passw ord：sa 使用者的密碼（必填參數）；
- 3 -m axM em m axm em：需要調整到的最大記憶體數（MB）（可選參數，預設情況下顯示當前實際值）。例如將資料庫記憶體設置為 1024M，可在安裝目錄下（此處以 G:\Program Files\MC 為例，請根據實際情況修改。）執行：G:\Program Files\MC\client\bin>setsqlservem axm em -server 127.0.0.1 -saPw d sa -m axM em 1024 此外，修改時請注意以下兩點：
 - 1 由於資料庫本身佔用一定記憶體，因此實際使用的記憶體量可能比設置的數值大一些；
 - 2 設置完成後需要重新開機資料庫，配置才能生效；

博鉅資訊股份有限公司

網路設備教育訓練簽到表

日期：103年12月12日(五)

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