流量偵測 RRDTool+Cacti 安裝與設定

作者：Mars

日期：2009-05-16

目錄

○、環境…… 3
一、套件安裝設定…… 4
1.1 安裝 CACTI 執行平台…… 4
1.2 安裝 CACTI 相關套件…… 4
1.3 設定 CACTI 資料夾權限…… 4
1.4 設定 CACTI SQL 參數…… 4
1.5 匯入 CACTI MySQL 相關資料庫 …… 4
1.6 設定 CACTI 排程…… 4
1.7 設定 CACTID 設定檔…… 4
二、CACTI Web 連線 …… 5
2.1 CACTI Web 首次連線設定…… 5
2.2 CACTI Web 登入…… 6
2.3 管理者登入畫面 …… 7
2.4 匿名觀看狀態圖 …… 7
三、CACTI 帳號設定…… 8
3.1 新增帳號 …… 8
3.2 設定帳號詳細資訊 …… 9
四、CACTI 參數設定…… 11
4.1 一般參數設定-General…… 11
4.2 路徑參數設定-Paths…… 11
4.3 偵測參數設定-Poller …… 12
4.4 圖表匯出設定-Graph Export…… 13
4.5 視覺相關設定-Visual …… 14
4.6 認証相關設定-Authentication…… 14
五、管理偵測目標…… 15
5.1 設定偵測目標 …… 15
5.2 建立圖表樹狀架構 …… 16
5.3 建立偵測圖表 …… 17
5.4 刪除偵測圖表 …… 18
六、查尋偵測圖表…… 19
6.1 流量圖表說明 …… 19
6.2 圖表特定時段狀態查詢 …… 19

目錄

七、修改圖表標題…… 21
7.1 從圖表管理修改標題 …… 21
7.2 從資料庫修改標題 …… 22
八、設備及伺服器 SNMP 設定…… 25
8.1 Linux 伺服器 SNMP 設定 …… 25
8.2 Windows 伺服器 SNMP 設定…… 25
8.3 Cisco 交換器 SNMP 設定…… 27
九、CACTI 圖表中文支援…… 28
9.1 對 RRDTool 套件打上雙字元處理補丁…… 28
9.2 修改語系 …… 29
9.3 在 CACTI 中設定使用的中文字型檔…… 29
9.4 觀看圖表中文支援狀況 …… 30
十、圖表中文化 …… 31
10.1 圖表樣版(Graph Template)中文化 …… 31
10.2 Data Queries 的圖表樣版中文化 …… 34
10.3 對圖表 Round Robin Archives 名稱中文化… 35
附錄一、常用 Linux OID/MIB 對照表…… 37
參考資料…… 38
Change Log…… 39

○、環境

Intel(R) Xeon(R) CPU 5130 @ 2.00GHz X1
RAM 1024MB
CentOS 4 i386
%packages
@ admin-tools
@ editors
@ system-tools
@ dialup
@ chinese-support
@ server-cfg
grub
kernel-smp
e2fsprogs
rrdtool-1.2.23-0.rhel4.i386
cacti-0.8.6i.fc5.i386
cacti-cactid-0.8.6i-1.i386

一、套件安裝設定

1.1 安裝 CACTI 執行平台

```
# yum -y install httpd httpd-devel httpd-manual php php-devel php-mysql mysql
mysql-devel mysql-server
# yum -y install net-snmp net-snmp-utils net-snmp-devel php-snmp php-gd
# yum -y install gcc glib glibc automake autoconf rpm-build
# chkconfig mysqld on
# chkconfig httpd on
# service mysqld restart
# service httpd restart
```

1.2 安裝 CACTI 相關套件

```
# wget ftp://rpmfind.net/linux/sourceforge/o/op/opennms/rrdtool-1.2.23-0.rhel4.i386.rpm
# wget ftp://rpmfind.net/linux/sourceforge/c/ca/cacti/cacti-0.8.6i.fc5.i386.rpm
# wget http://www.cacti.net/downloads/cactid/packages/SRPMS/cacti-cactid-0.8.6i-1.src.rpm

# rpm -ivh rrdtool* cacti*
# cd /usr/src/redhat/SPECS
# rpmbuild -bb cactid.spec
# cd /usr/src/redhat/RPMS/i386/
# rpm -ivh cacti*
```

1.3 設定 CACTI 資料夾權限

```
# chown -R cactiuser /var/www/html/cacti/log /var/www/html/cacti/rra
```

1.4 設定 CACTI SQL 參數

```
# vi /var/www/html/cacti/include/config.php
```

```
$database_type = "mysql";
$database_default = "cacti";
$database_hostname = "localhost";
$database_username = "root";
$database_password = "";
$database_port = "3306";
```

1.5 匯入 CACTI MySQL 相關資料庫

```
# vi /var/www/html/cacti/cacti.sql  檔頭加入
```

```
create database cacti ;
use cacti ;
```

```
# mysql -u root < /var/www/html/cacti/cacti.sql
```

1.6 設定 CACTI 排程

```
# vi /etc/cron.d/cacti
```

```
*/5 * * * *    cactiuser    php /var/www/html/cacti/poller.php > /dev/null 2>&1
```

1.7 設定 CACTID 設定檔

```
# vi /etc/cactid.conf
```

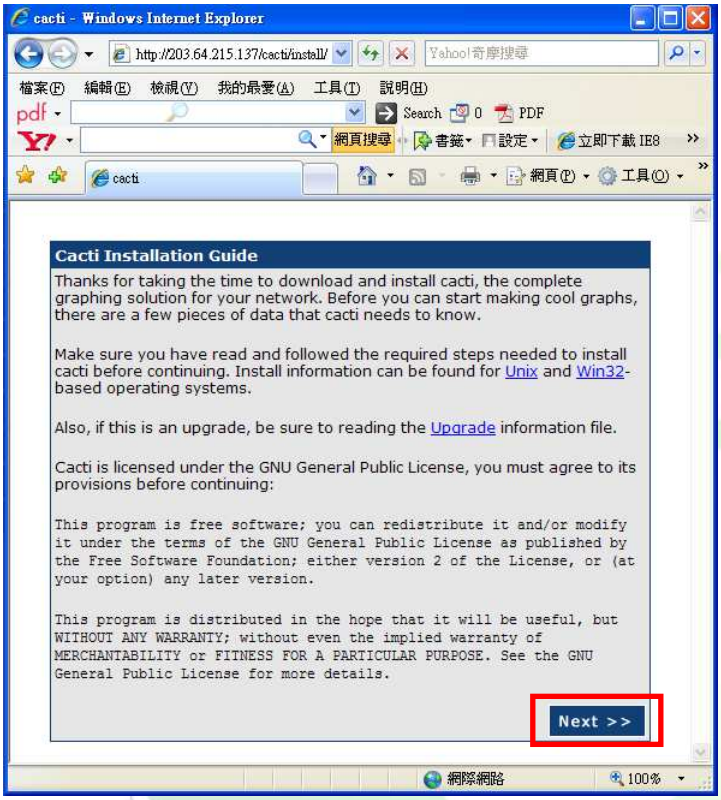
```
DB_Host          localhost
DB_Database      cacti
DB_User          root
DB_Pass
DB_Port          3306
```

二、CACTI Web 連線

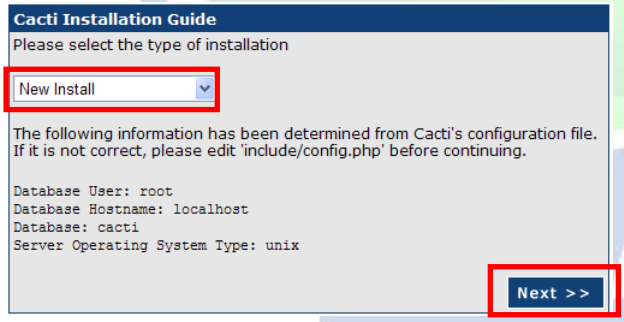
2.1 CACTI Web 首次連線設定

使用瀏覽器連線 http://SERVER_IP/cacti/

第一次連線會導向設定頁面



選擇 New Install 進行安裝



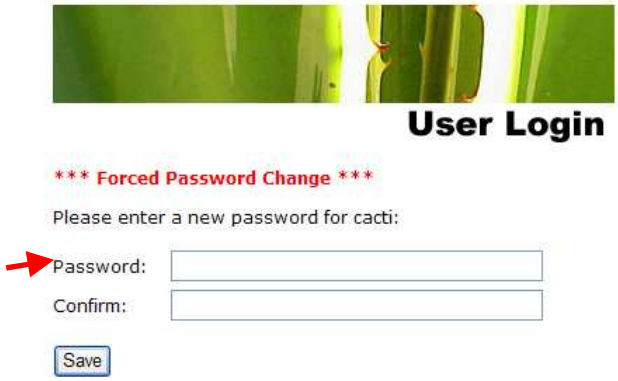
設定相關程式路徑及版本 – 設定完成

2.2 CACTI Web 登入

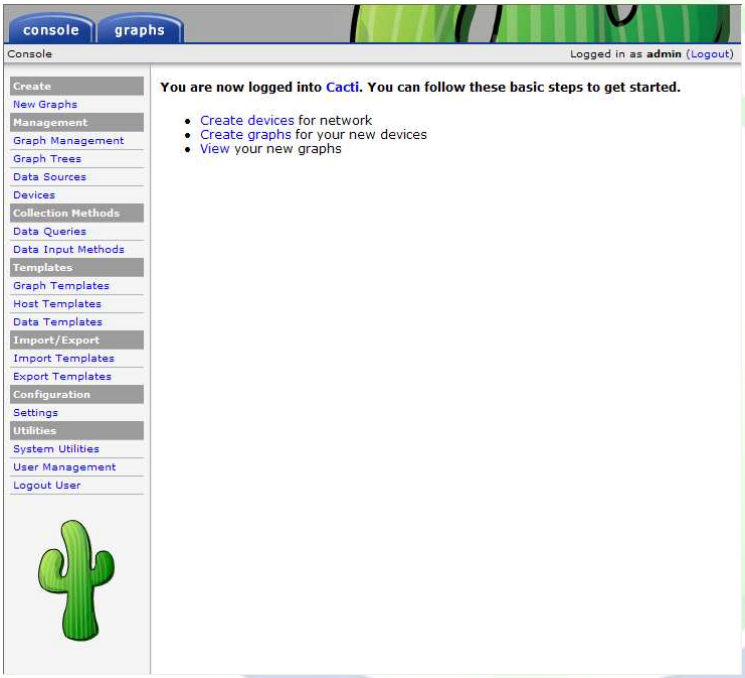
a . 預設路徑：http://YOUR_SERVER_UP/cacti/

b. 第一次登入的預設帳號 admin，以設密碼：admin

c. 使用預設密碼登入後，強制要求修改密碼

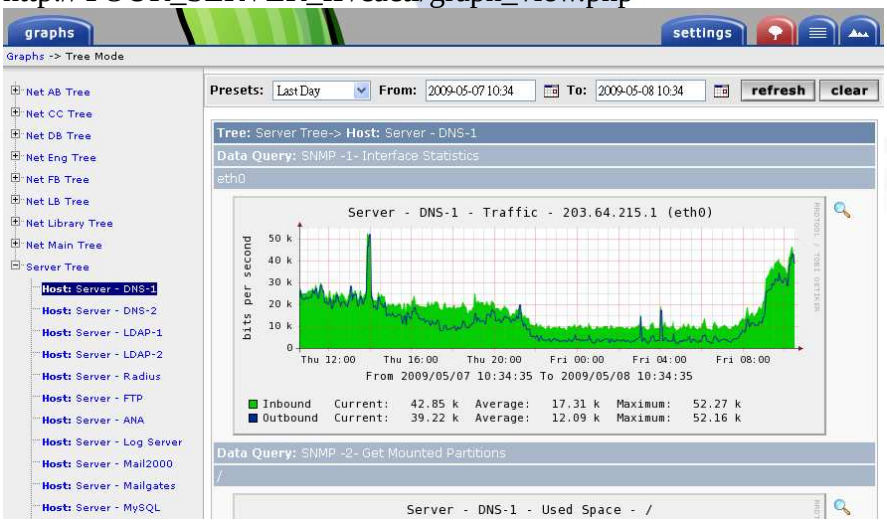


2.3 管理者登入畫面



2.4 匿名觀看狀態圖

http://YOUR_SERVER_IP/cacti/graph_view.php

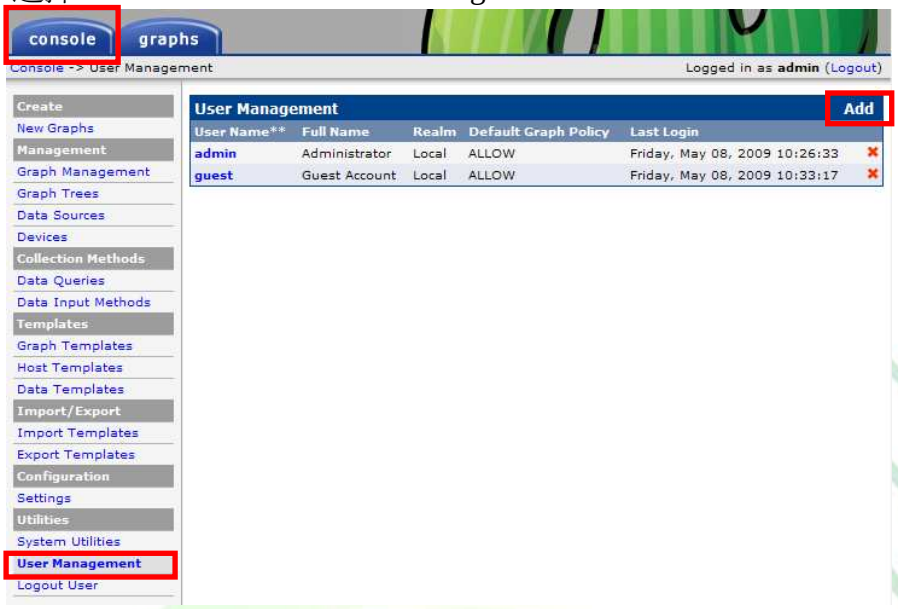


三、CACTI 帳號設定

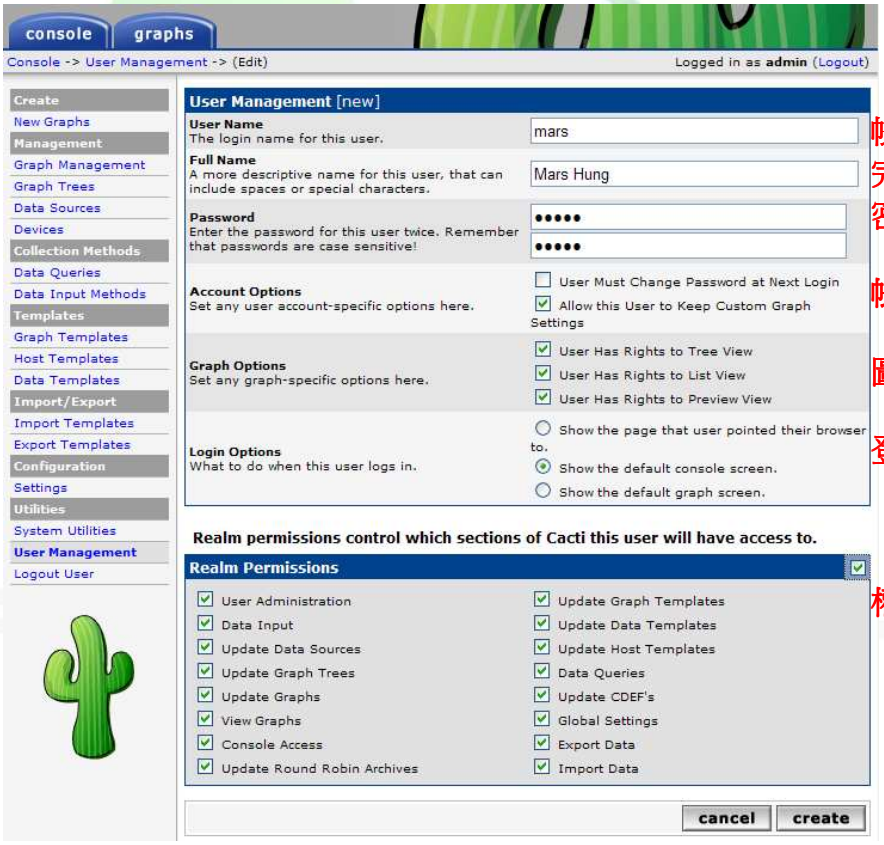
3.1 新增帳號

a. 選擇 

=> User Management => Add



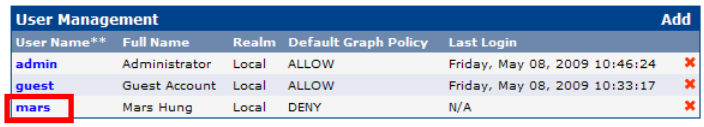
b. 設定帳號資訊及控制權限

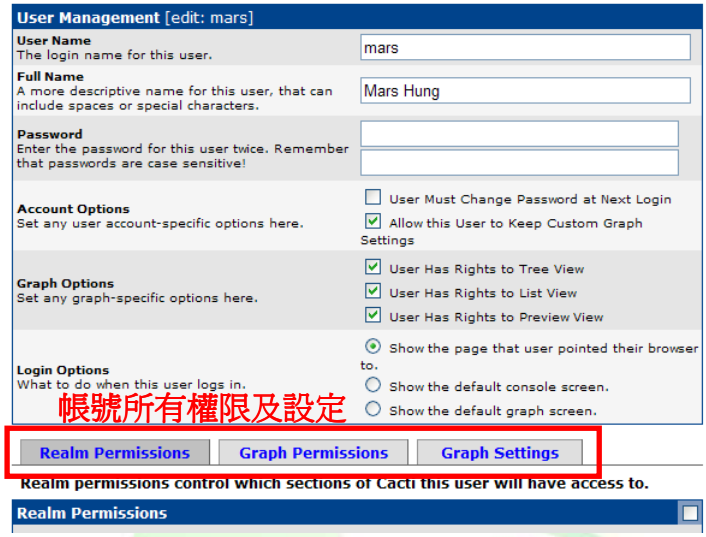


3.2 設定帳號詳細資訊

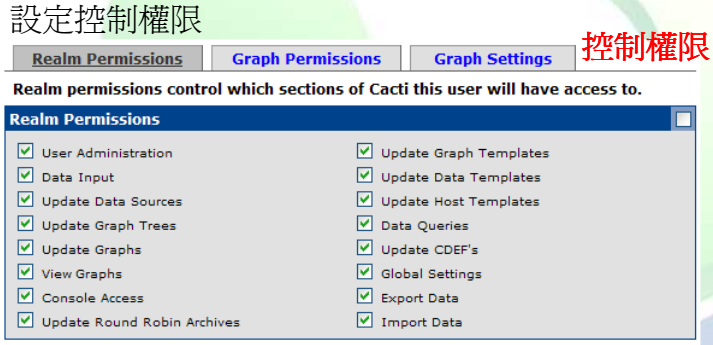
a. 選擇 

=> User Management => mars (目標帳號)



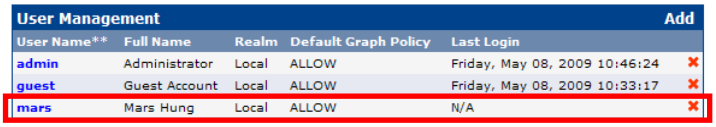


d. 設定控制權限



e. 設定圖片權限

f. 設定完成

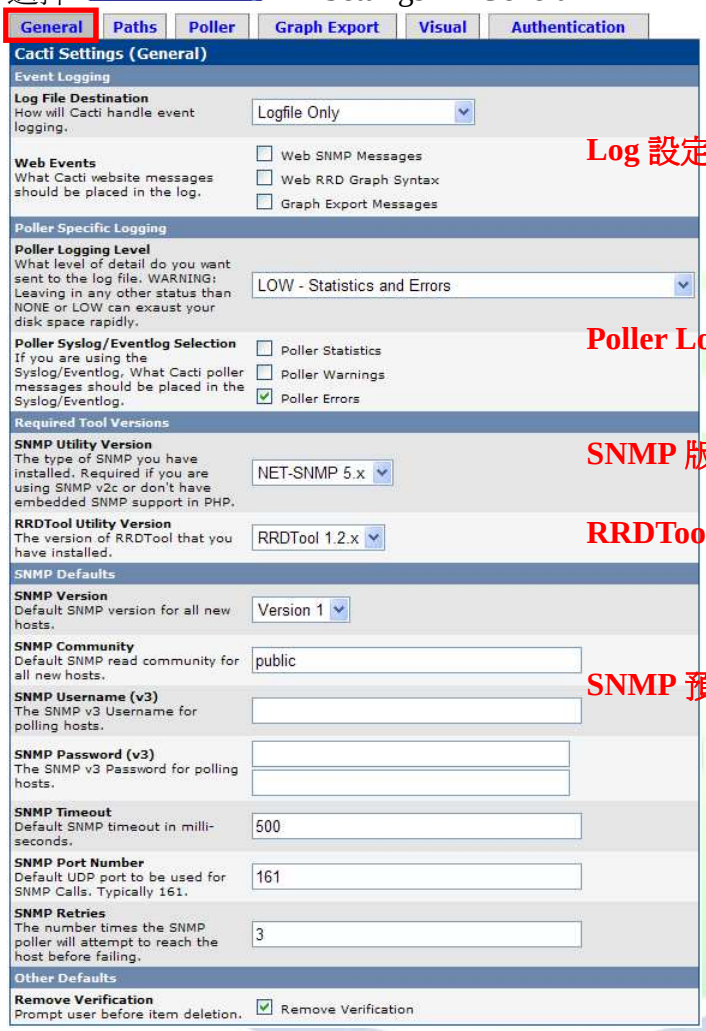


User Management					Add
User Name**	Full Name	Realm	Default Graph Policy	Last Login	
admin	Administrator	Local	ALLOW	Friday, May 08, 2009 10:46:24	✖
guest	Guest Account	Local	ALLOW	Friday, May 08, 2009 10:33:17	✖
mars	Mars Hung	Local	ALLOW	N/A	✖

四、CACTI 參數設定

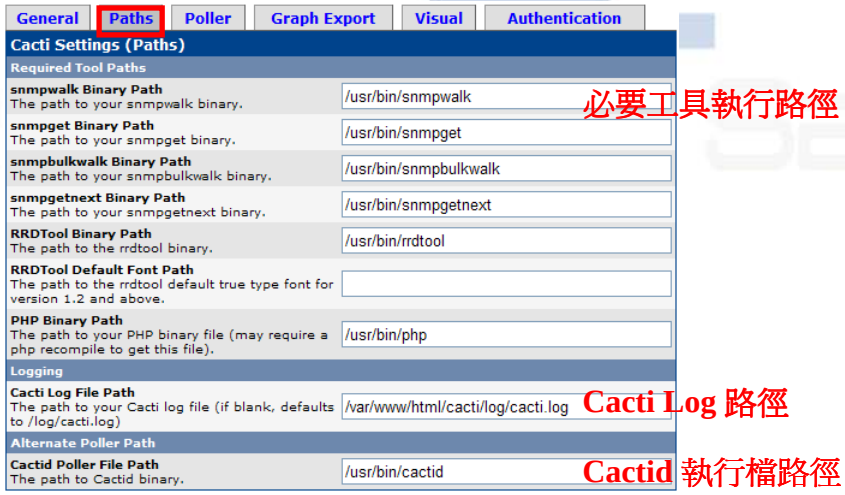
4.1 一般參數設定-General

選擇 console => Settings => General



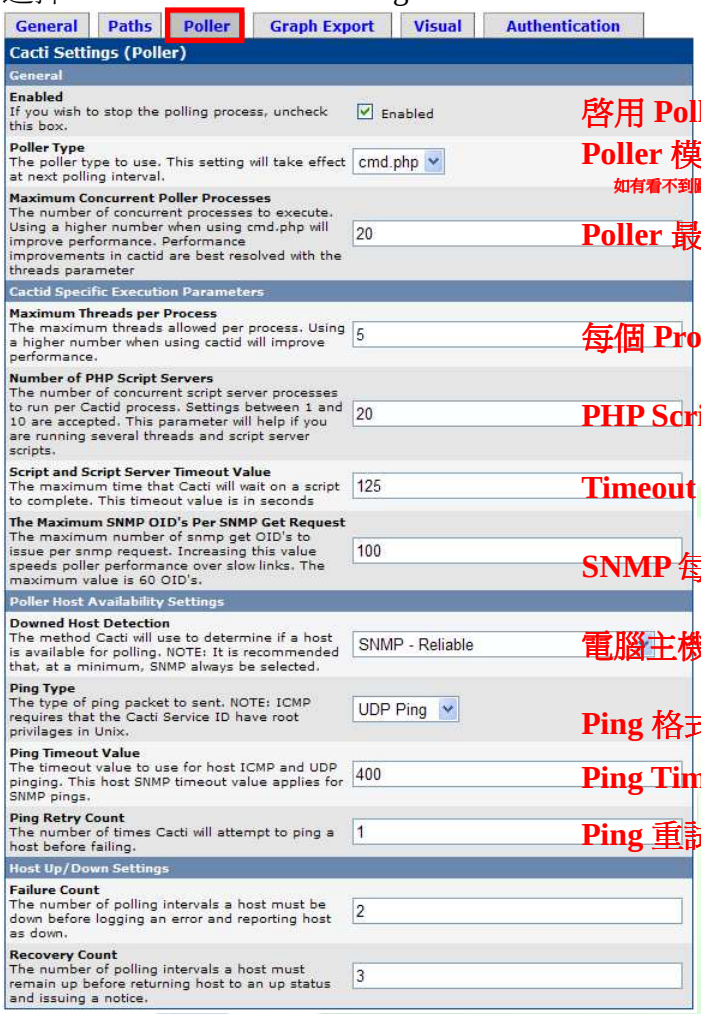
4.2 路徑參數設定-Paths

選擇 console => Settings => Patchs



4.3 偵測參數設定-Poller

選擇 console => Settings => Poller



啓用 Poller 偵測程式

Poller 模式 (cmd.php 慢 / cactid 快)

如有看不到圖表的狀況，可切換至 cactid 試試

Poller 最大 Processes 數量

每個 Process 最大 Thread 數

PHP Script Server 數量

Timeout 時間設定

SNMP 每次 OID 最大取得數

電腦主機偵測方式

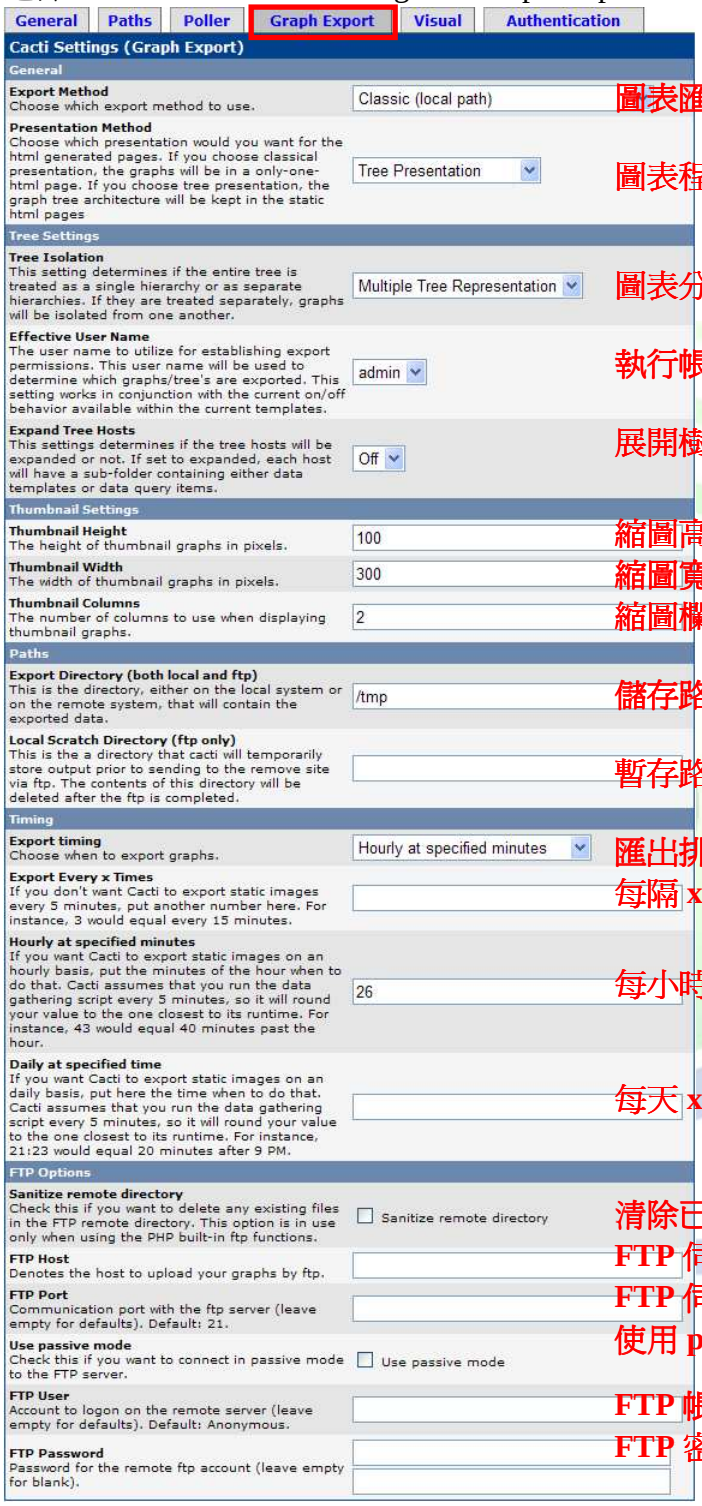
Ping 格式

Ping Timeout 時間

Ping 重試次數

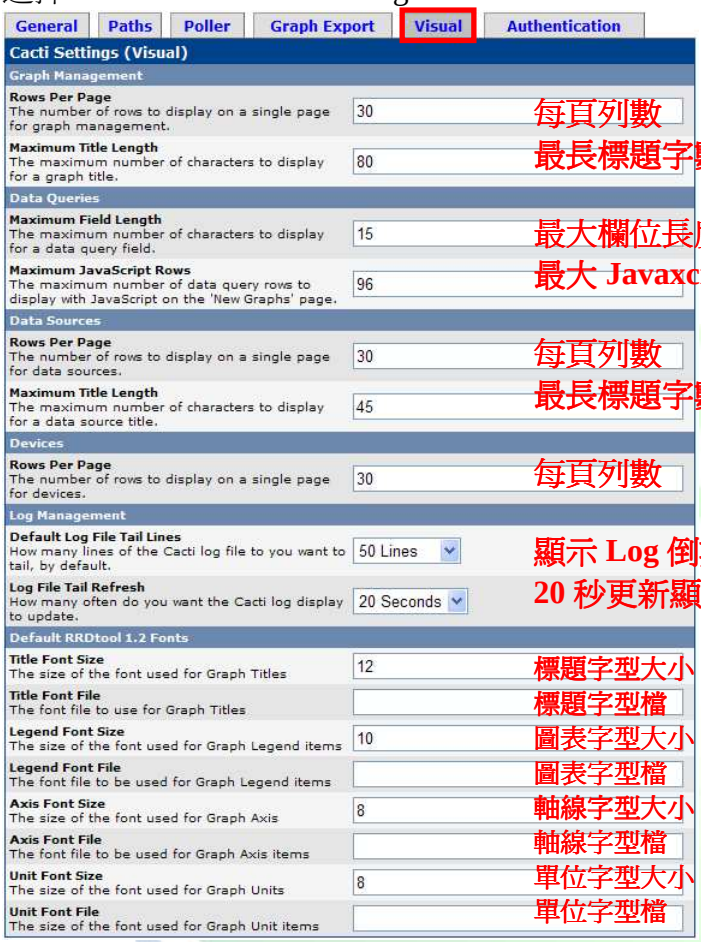
4.4 圖表匯出設定-Graph Export

選擇 console => Settings => Graph Export



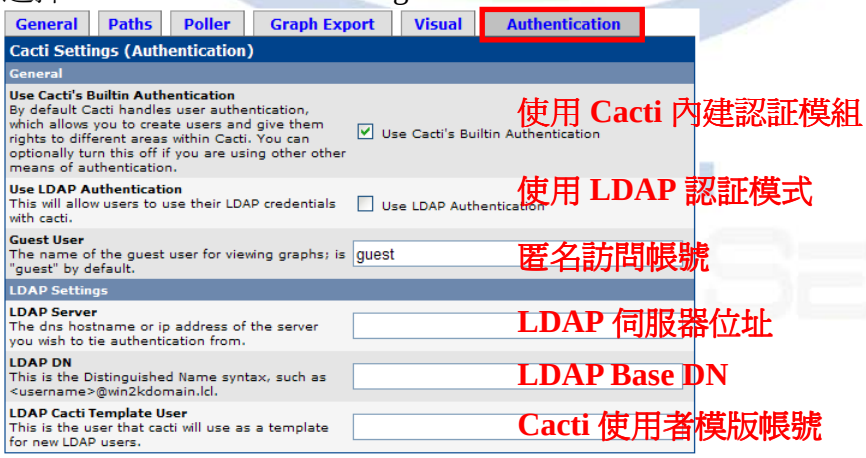
4.5 視覺相關設定-Visual

選擇 console => Settings => Visual



4.6 認証相關設定-Authentication

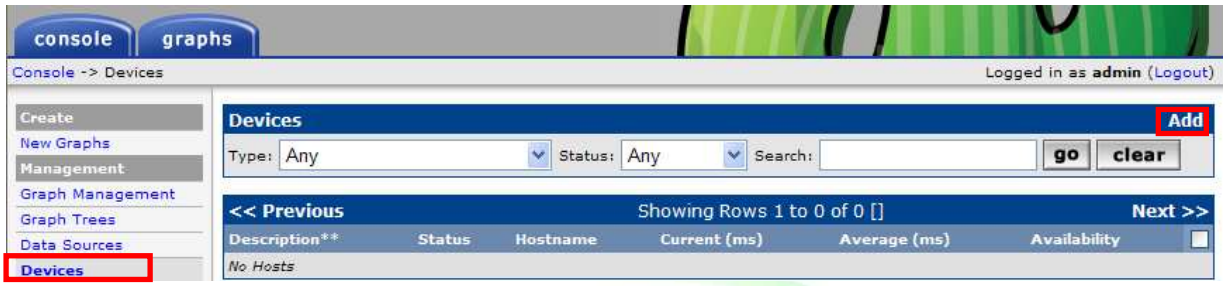
選擇 console => Settings => Authentication



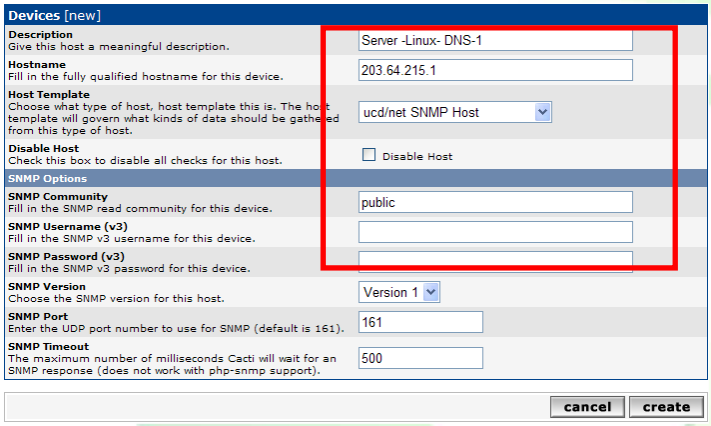
五、管理偵測目標

5.1 設定偵測目標

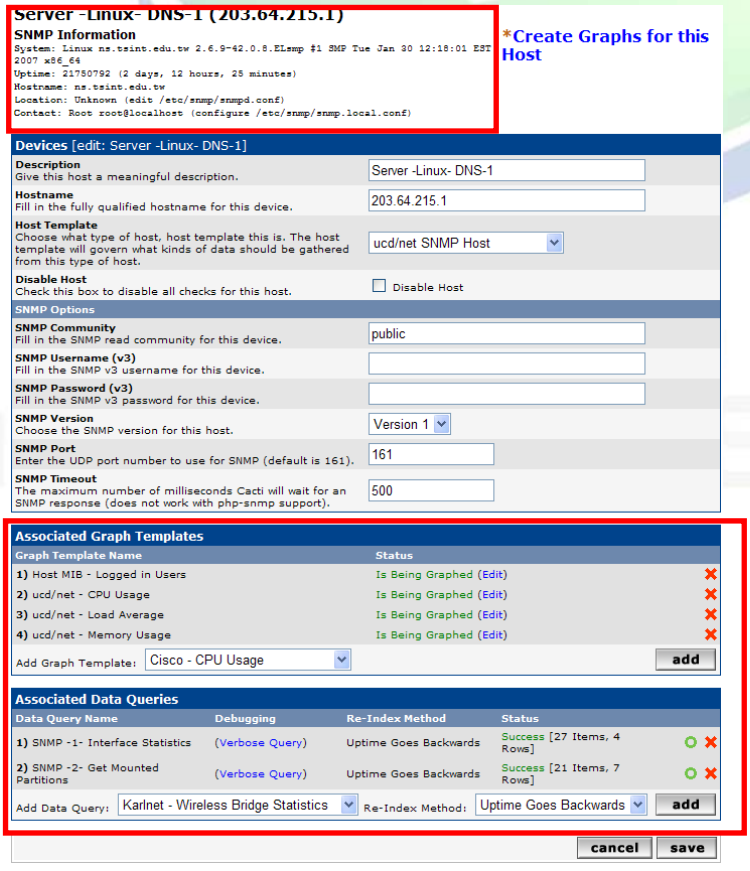
a. 選擇 console => Devices => Add



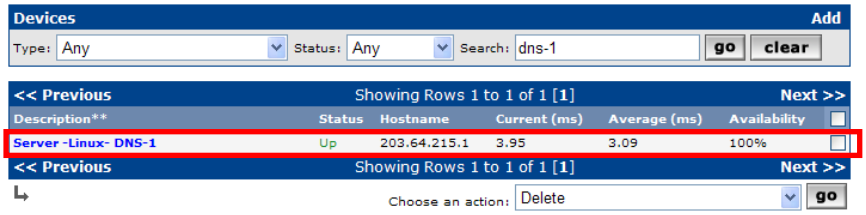
b. 填寫目標資訊



c. 確定目標資訊及偵測模版

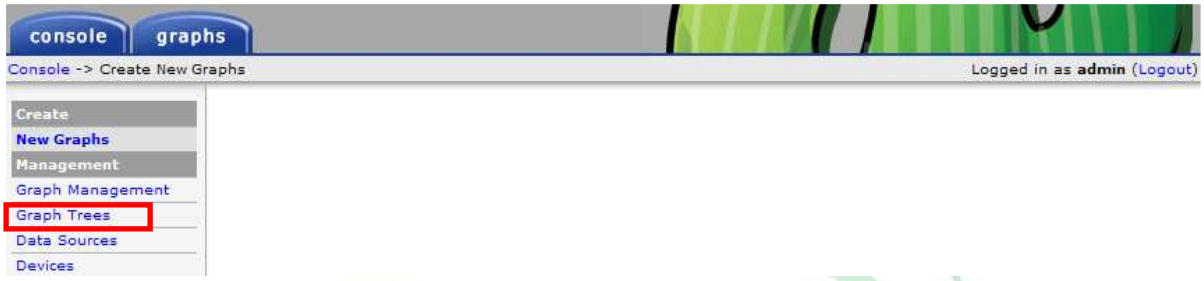


d. 新增完成

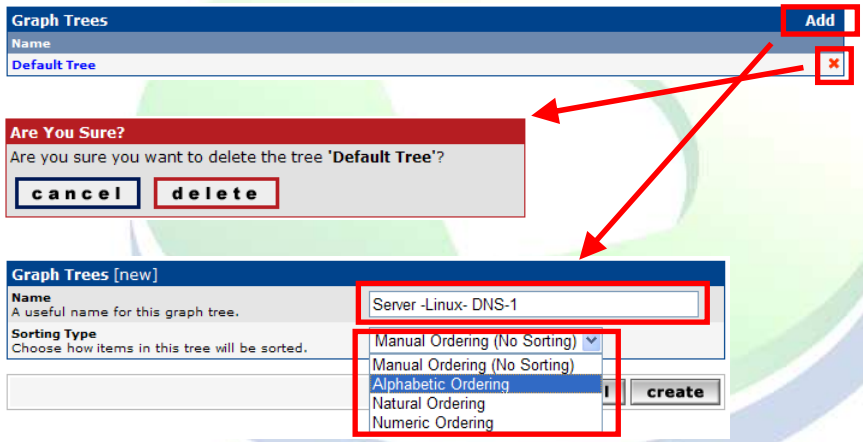


5.2 建立圖表樹狀架構

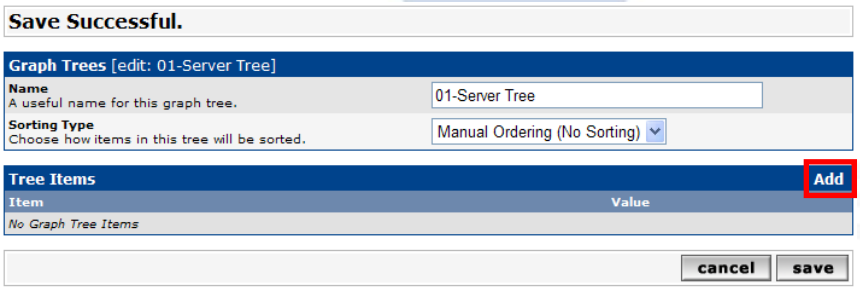
a. 選擇 console => Graph Trees



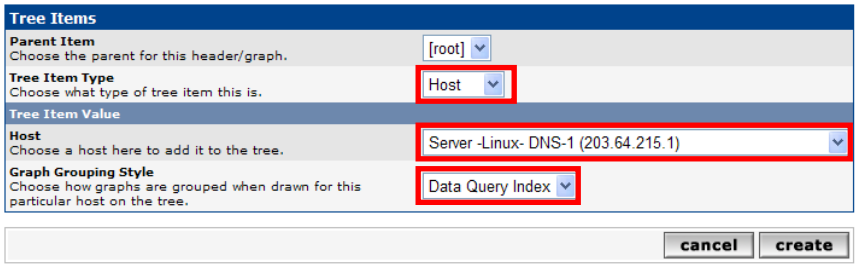
b. 按✖刪除 Default Tree，並按 Add 新增新的 Graph Tree



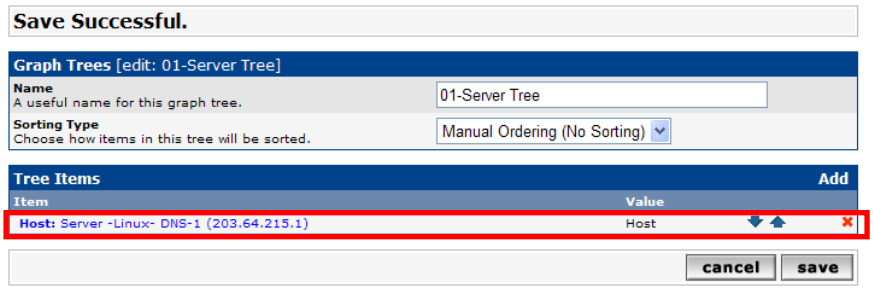
c. 按 Add 新增物件



d. 使用 Host 模式，可選擇之前建立的 Devices – Server -Linux- DNS-1

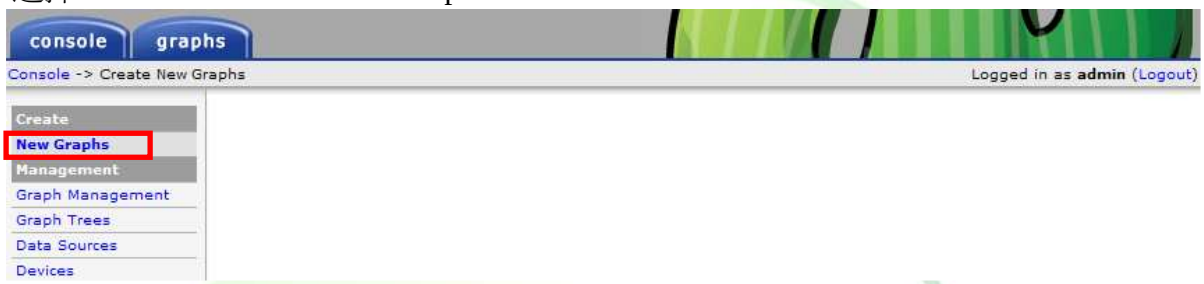


e. 伺服器 Server -Linux- DNS-1 加入 01-Server Tree 完成

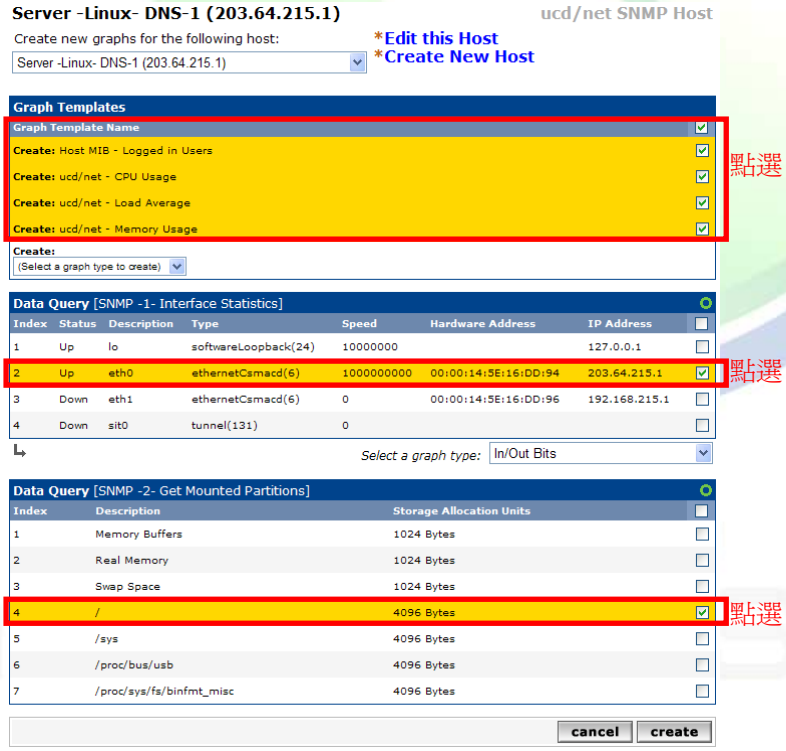


5.3 建立偵測圖表

a. 選擇 console => New Graphs

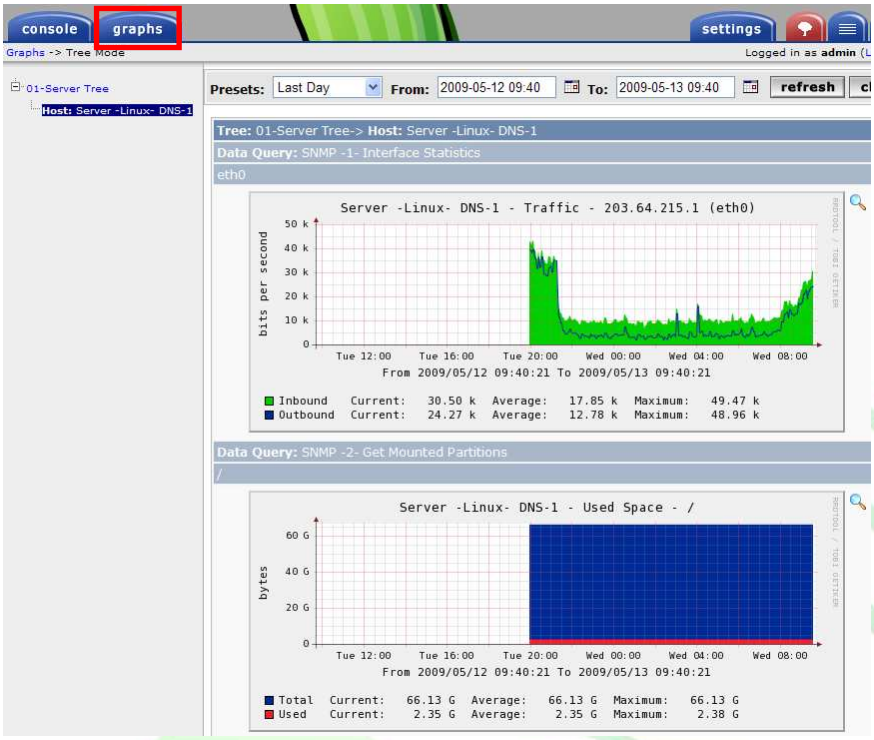


b. 選擇偵測圖表



c. 選擇 

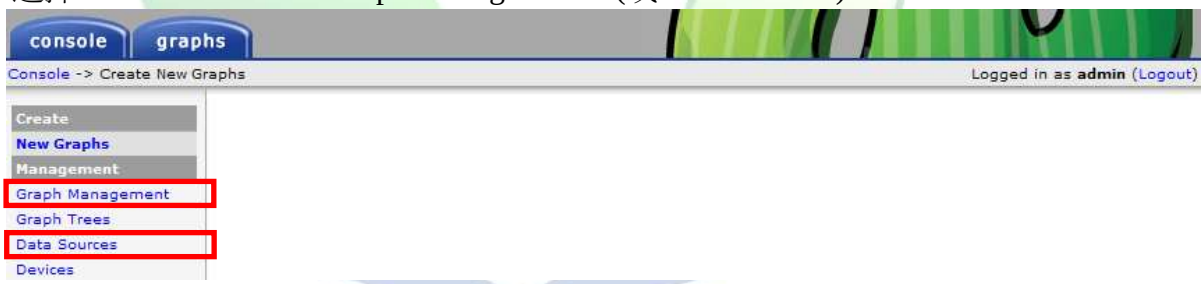
查看圖表



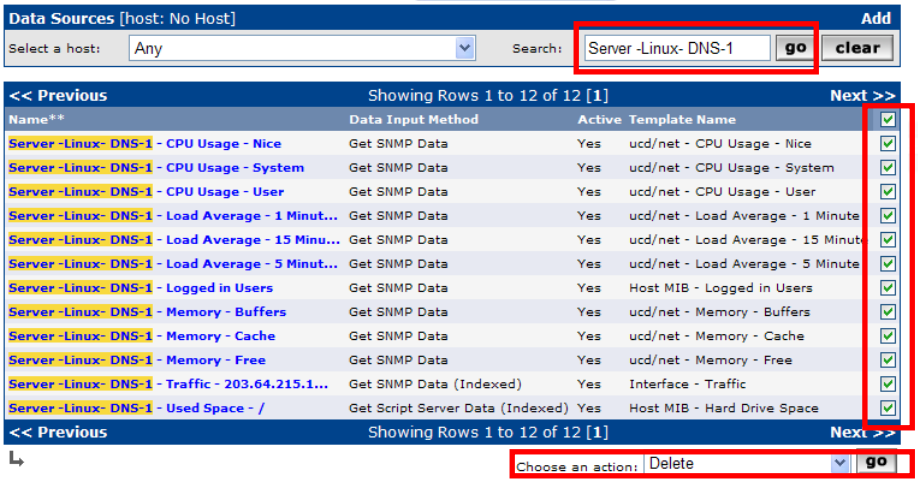
5.4 刪除偵測圖表

a. 選擇 

=> Graph Management (或 Data Sources)

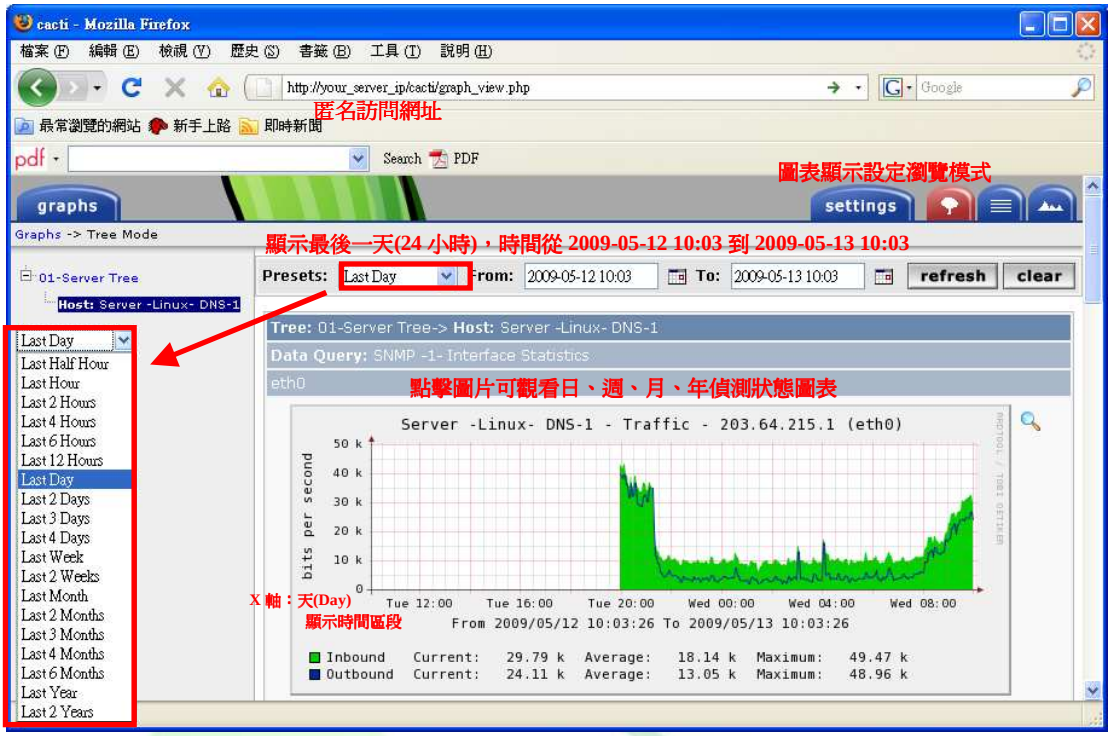


b. 刪除 Server -Linux- DNS-1 相關圖表



六、查尋偵測圖表

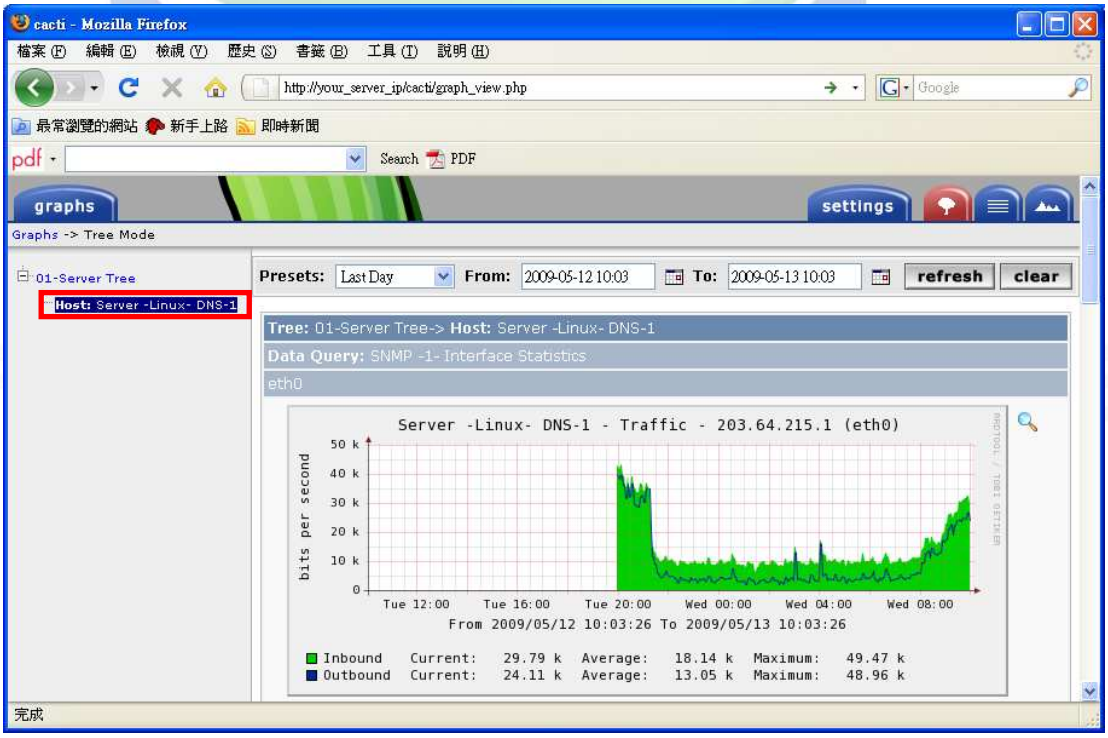
6.1 流量圖表說明



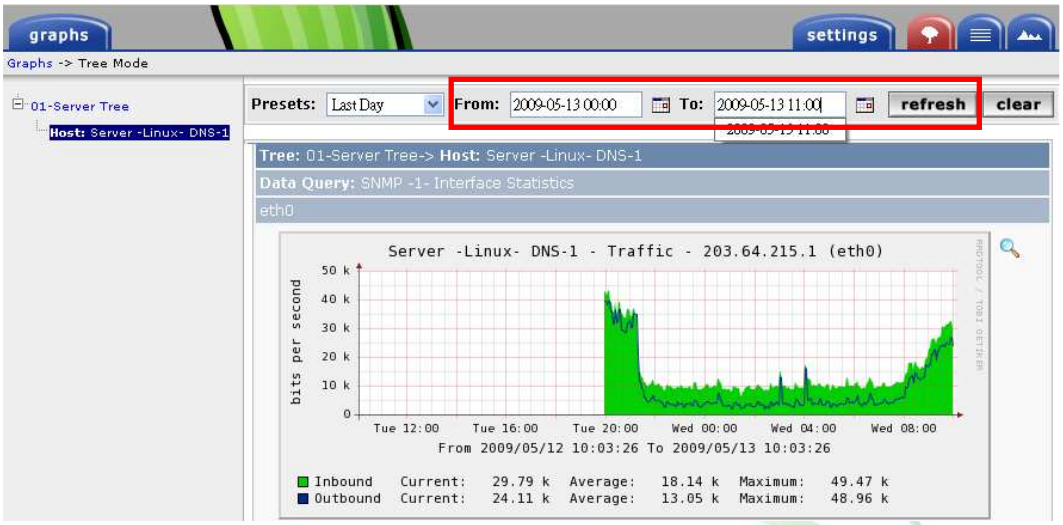
6.2 圖表特定時段狀態查詢

a. 查詢目標：Server -Linux- DNS-1
時間：2009-05-13 00:00 到 2009-05-13 11:00

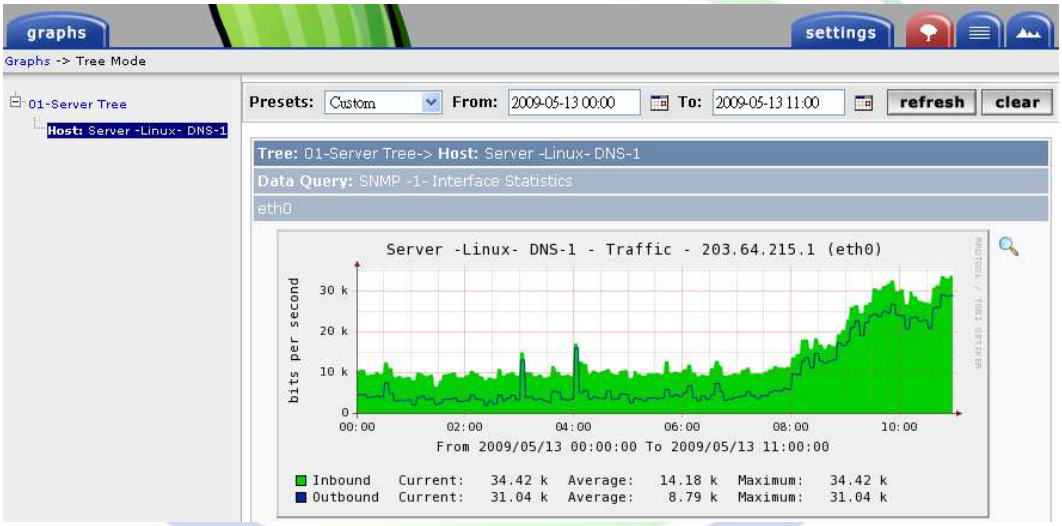
b. 點選 graphs => 01-Server Tree => Server -Linux- DNS-1



c. 在 From 及 To 表單中輸入開始及結束時間，並按 refresh 鍵



d. 目標伺服器在該時間區段的狀態圖

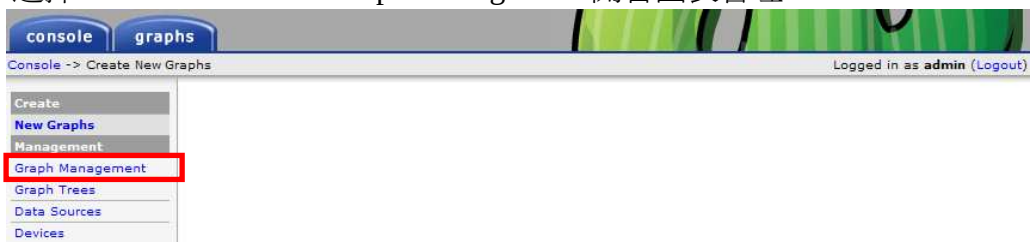


七、修改圖表標題

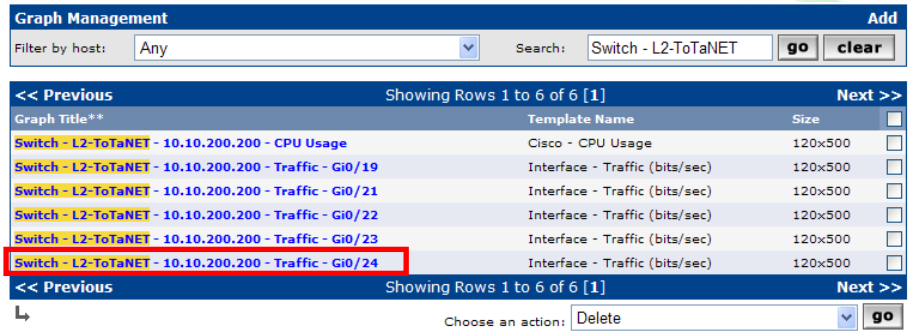
7.1 從圖表管理修改標題

a. 選擇 

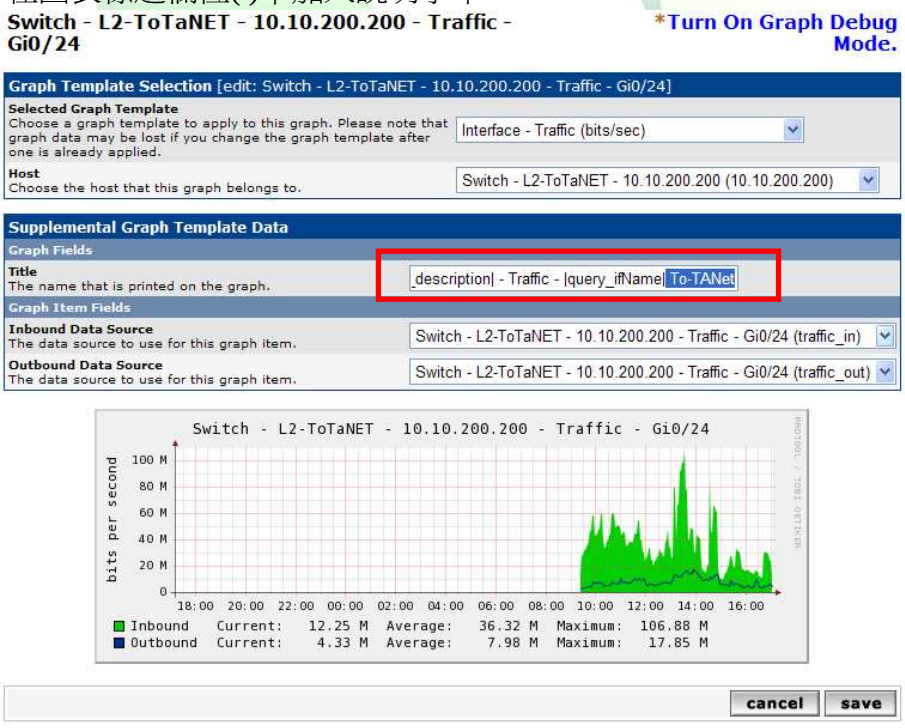
=> Graph Management 開啓圖表管理



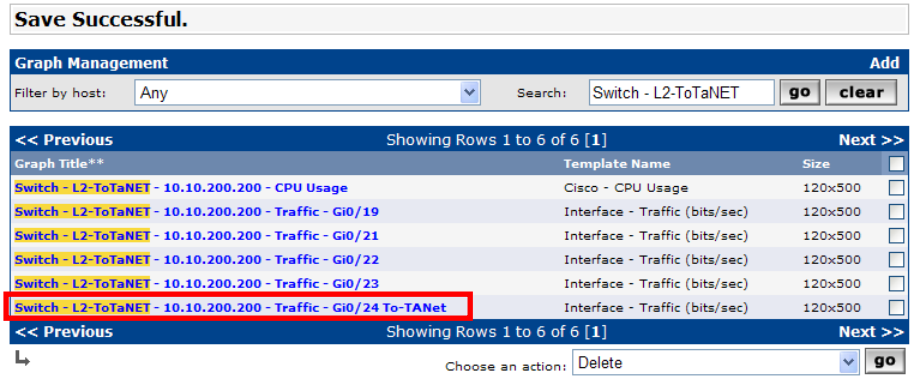
b. 搜尋目標設備，點選目標圖表



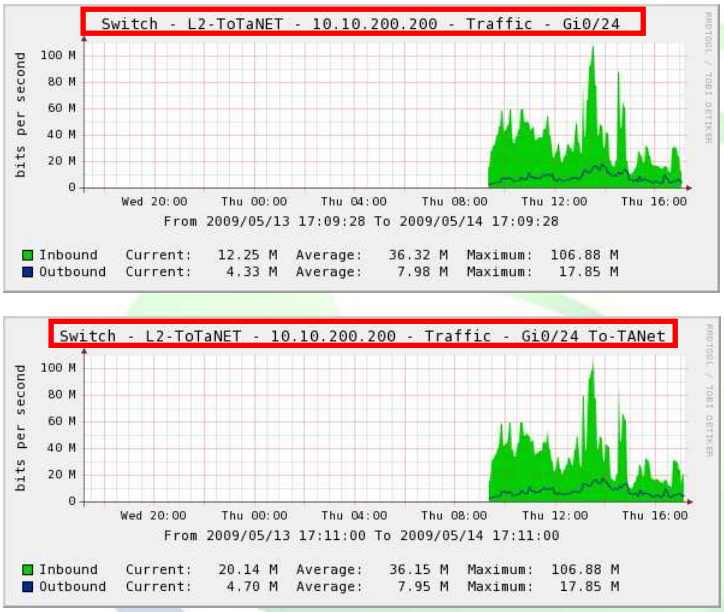
c. 在圖表標題欄位( )中加入說明字串



d. 修改完成



e. 修改標題前後圖表狀況



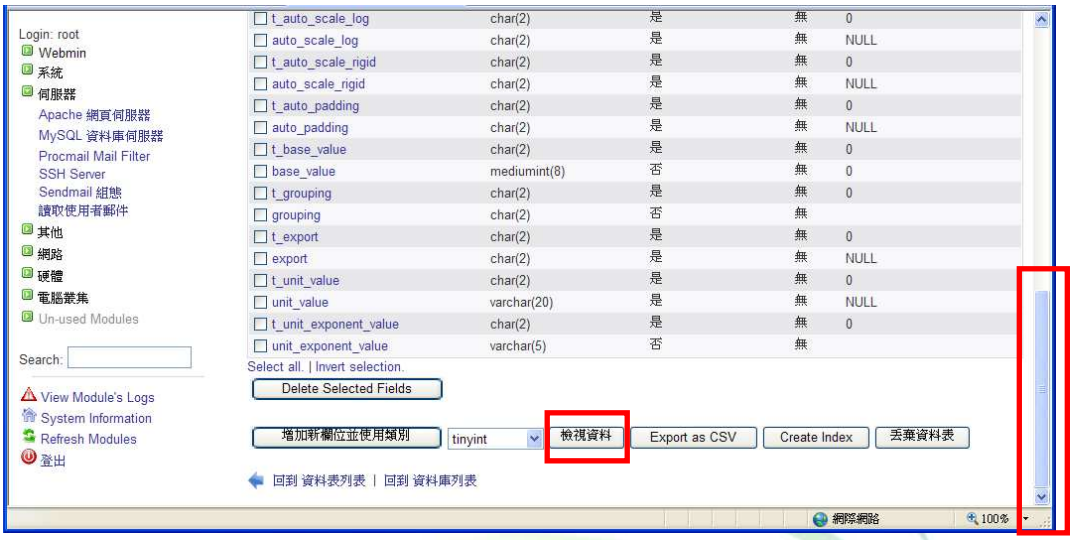
7.2 從資料庫修改標題

a. 使用 Webmin 修改樣圖表資料庫

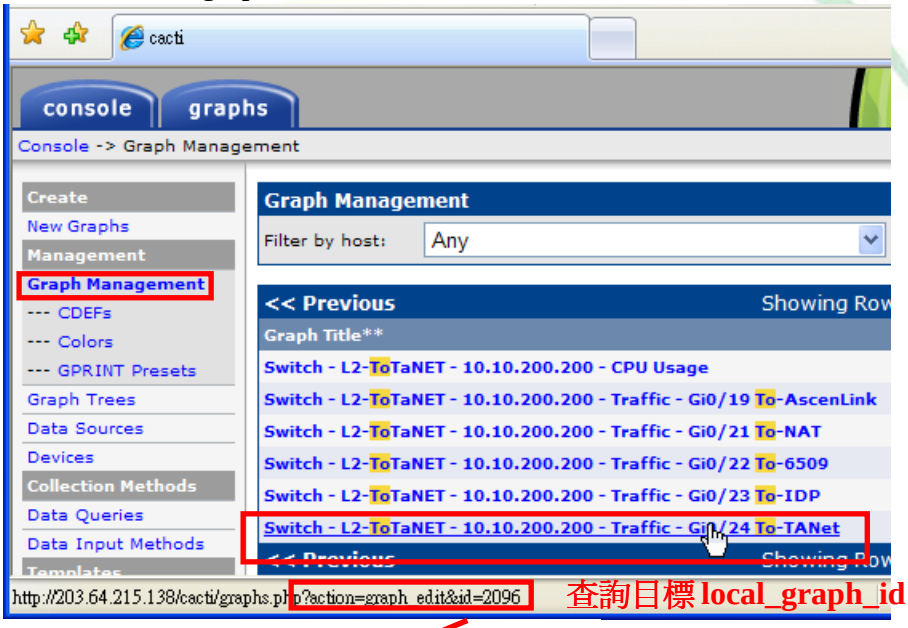
點選 MySQL 資料庫伺服器 => cacti ， 再選擇 graph_templates_graph 資料表

點選 Open 開啓資料表

b. 頁面下拉至最下方，點選**檢視資料**



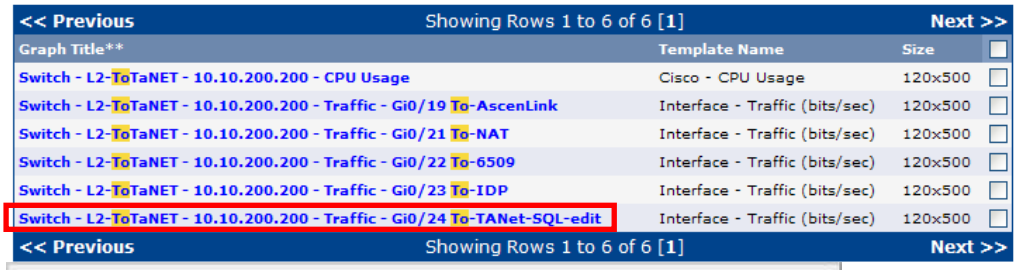
c. 從 Graph Management 查詢目標圖表的 id，然後編輯 graph_templates_graph 資料表中相同 local_graph_id 值所對應的 title、title_cache 欄位值

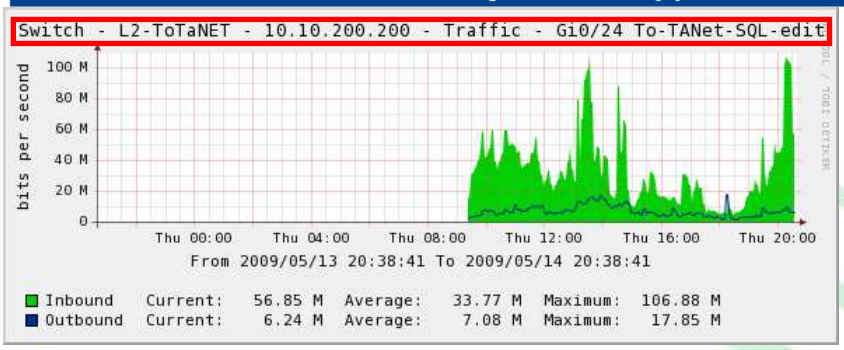


編輯相同 local_graph_id 值所對應的 title、title_cache 欄位值

|host_description|及|query_ifName|為 CACTI 變數，請小心修改。

d. 編輯完成





八、設備及伺服器 SNMP 設定

8.1 Linux 伺服器 SNMP 設定

yum -y install net-snmp net-snmp-utils net-snmp-devel

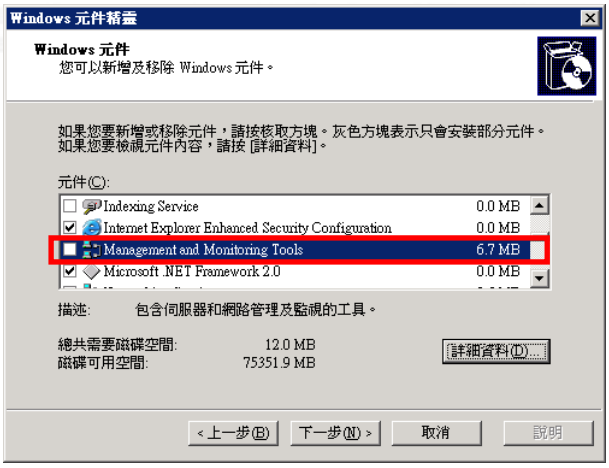
vi /etc/snmp/snmpd.conf

```
#com2sec notConfigUser  default       public          <== 註解該行
#group   notConfigGroup v1            notConfigUser   <== 註解該行
#group   notConfigGroup v2c           notConfigUser   <== 註解該行
#view    systemview    included   .1.3.6.1.2.1.1      <== 註解該行
#view    systemview    included   .1.3.6.1.2.1.25.1.1 <== 註解該行
#access  notConfigGroup ""  any  noauth  exact  systemview none none  <== 註解該行

# 定義 security name 的 SNMP Request 來源端 IP 及 Community
com2sec  local     localhost       public
com2sec  mynetwork 203.64.215.0/24 public

# 定義 group 的 SNMP 版本及擁有的 security name
group   MyRWGroup any  local
group   MyROGroup any  mynetwork

# 定義 view 所包含的 OID/MIB subtree
view    all    included   .1          80

# 定義 SNMP 訪問權限
access      MyROGroup   ""   any   noauth    prefix    all    none  none
access      MyRWGroup   ""   any   noauth    prefix    all    all   all
```

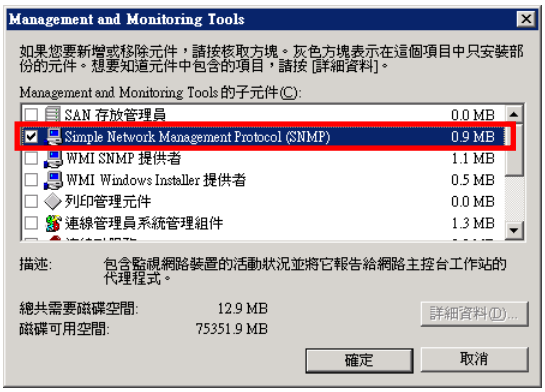
8.2 Windows 伺服器 SNMP 設定

a. 點選 控制台 => 新增移除程式 => 新增移除 Windows 元件

b. 選擇 Management and Monitoring Tools，再按詳細資料

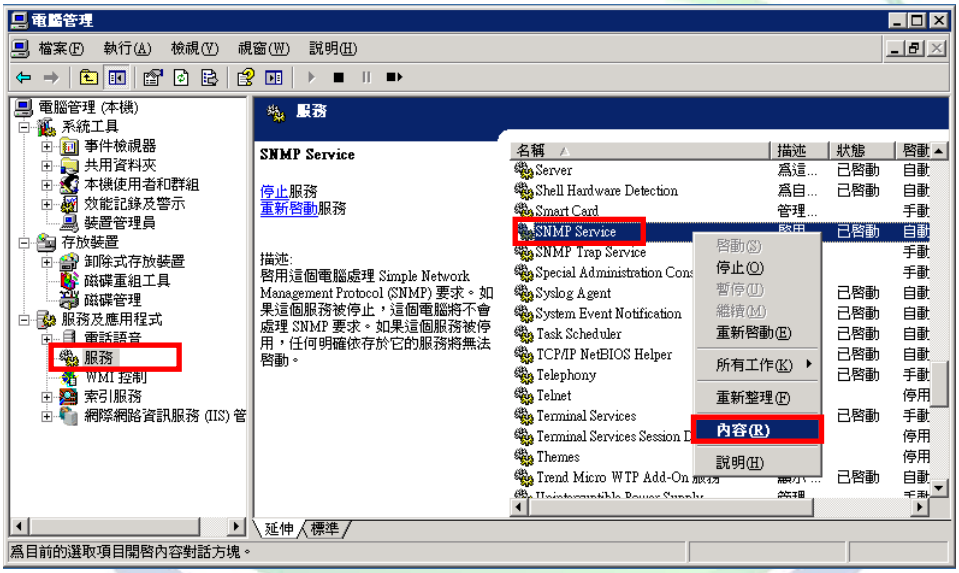


c. 勾選 Simple Network Management Protocol (SNMP)，按確定開始安裝

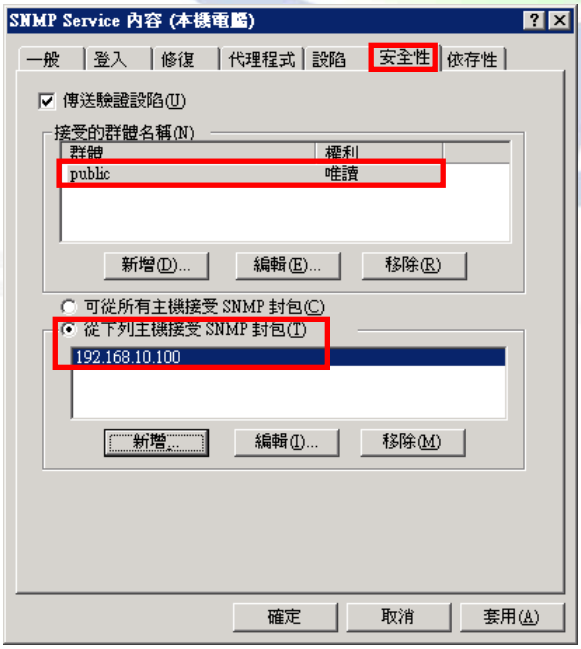


d. 在 

上按右鍵，選管理，服務及應用程式 => 服務 => SNMP Service 右鍵選內容



e. 選擇安全性新增目標主機及接受的群體名稱



8.3 Cisco 交換器 SNMP 設定

Cisco SNMP v1 設定

Switch> configure terminal
Switch(config)> snmp-server community read RO
Switch(config)> snmp-server community write RW

九、CACTI 圖表中文支援

9.1 對 RRDTool 套件打上雙字元處理補丁

a. 取得 rrdtool-1.2.23-3.el4.src.rpm，展開 srpm。

```
# wget ftp://ftp.pbone.net/mirror/download.fedora.redhat.com/pub/fedora/epel/4/SRPMS/rrdtool-1.2.23-3.el4.src.rpm
# rpm -i rrdtool-1.2.23-3.el4.src.rpm
```

b. 解開 rrdtool-1.2.23.tar.gz，參考 RRDTool 中文版安裝經驗及 RRDTool 中文 Ebuild 爲此版本編寫 patch 檔修正 src/rrd_gfx.c 及 src/rrd_graph.c。

Patch 程式碼如下：

```
--- rrdtool-1.2.23.orig/src/rrd_gfx.c      2007-05-02 18:06:10.000000000 +0000
+++ rrdtool-1.2.23/src/rrd_gfx.c       2009-05-15 11:13:37.000000000 +0000
@@ -389,7 +389,7 @@
     int                 n;
     int                 error;
     int             gottab = 0;
+    // 雙字元處理 multi-bytes 問題
+    wchar_t* w_text;
  #ifdef HAVE_MBSTOWCS
     wchar_t         *cstr;
     size_t          clen = strlen(text)+1;
@@ -410,7 +410,6 @@
     ft_pen.x = 0;      /* start at (0,0) !! */
     ft_pen.y = 0;

-
     string->width = 0;
     string->height = 0;
     string->glyphs = (gfx_char) calloc (string->count,sizeof(struct gfx_char_s));
@@ -420,6 +419,9 @@
     string->transform.yx = (FT_Fixed)( sin(M_PI*(rotation)/180.0)*0x10000);
     string->transform.yy = (FT_Fixed)( cos(M_PI*(rotation)/180.0)*0x10000);
+    w_text = (wchar_t) calloc (string->count,sizeof(wchar_t));
+    //   轉換爲 wide 型式
+    mbstowcs(w_text,text,string->count);
     use_kerning = FT_HAS_KERNING(face);
     previous       = 0;
     glyph = string->glyphs;
@@ -448,7 +450,8 @@
         glyph->pos.x = 0;
         glyph->pos.y = 0;
         glyph->image = NULL;
-       glyph->index = FT_Get_Char_Index( face, letter );
+// 字符隻轉換
+       glyph->index = FT_Get_Char_Index( face, w_text[n]);

         /* compute glyph origin */
         if ( use_kerning && previous && glyph->index ) {
@@ -521,6 +524,7 @@
            string->width = string->bbox.xMax - string->bbox.xMin;
     } */
     string->height = string->bbox.yMax - string->bbox.yMin;
+    free(w_text);
     return string;
  }

--- rrdtool-1.2.23.orig/src/rrd_graph.c 2007-05-02 18:06:10.000000000 +0000
+++ rrdtool-1.2.23/src/rrd_graph.c    2009-05-15 10:56:43.000000000 +0000
@@ -3105,8 +3105,10 @@
  #endif
  #ifdef HAVE_SETLOCALE
         setlocale(LC_TIME,"");
```

```
+       // 語系使用 zh_TW.UTF-8
+       setlocale(LC_ALL,"zh_TW.UTF-8");
 #ifdef HAVE_MBSTOWCS
        setlocale(LC_CTYPE,"");
+       // 語系使用 zh_TW.UTF-8
+       setlocale(LC_ALL,"zh_TW.UTF-8");
 #endif
 #endif
        im->yorigin=0;
```

c. 使用 patch 修正後，可使用 rpmbuild 編譯出支援中文圖表的 rpm 檔

9.2 修改語系支援

a. 修改 apache 語系爲 UTF-8

vi /etc/httpd/conf/httpd.conf

AddDefaultCharset UTF-8

b. 修改 cacti 頁面，使其預設語系爲 UTF-8

vi /var/www/html/cacti/include/top_header.php

在<head></head>中加入

<meta http-equiv="Content-Type" content="text/html; charset=utf-8">

9.3 在 CACTI 中設定使用的中文字型檔

a. 取得中文字型檔

安裝 Linux 中文字型

yum -y install ttfonts-zh_TW

可得字型檔

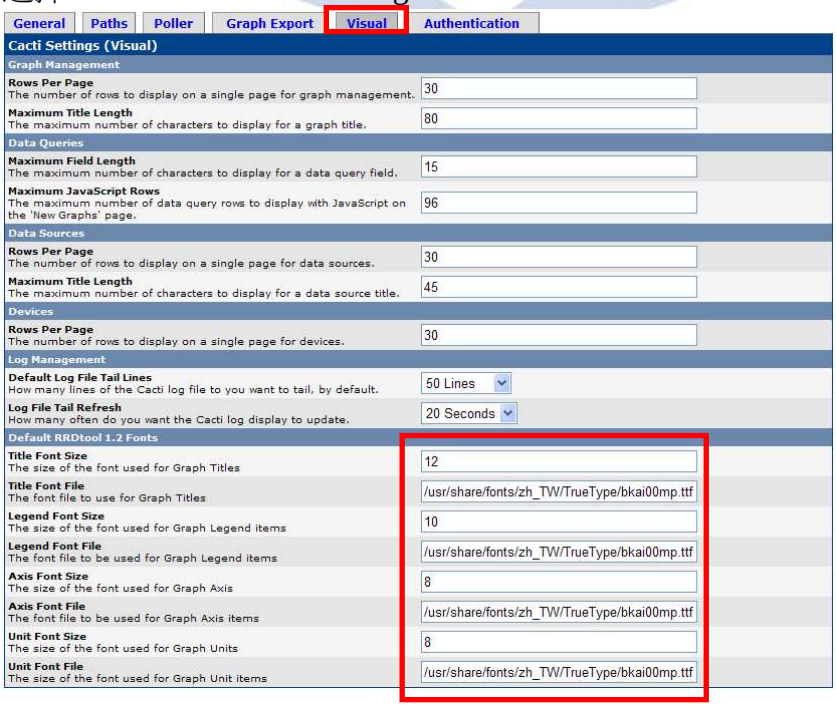
/usr/share/fonts/zh_TW/TrueType/bkai00mp.ttf

/usr/share/fonts/zh_TW/TrueType/bsmi00lp.ttf

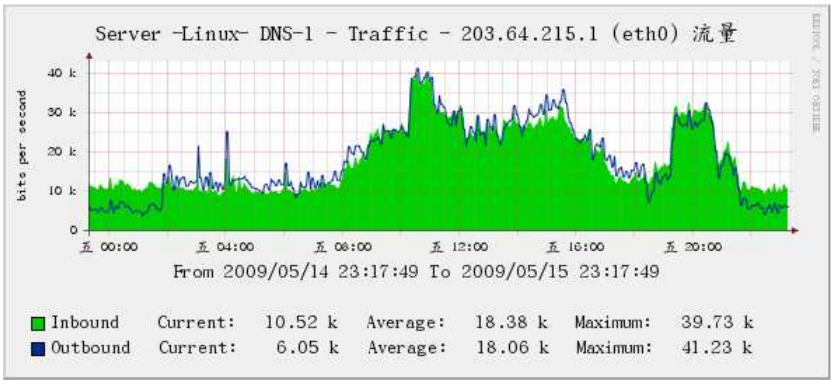
b. 設定 CACTI 使用的字型路徑

選擇 

=> Settings => Visual



9.4 觀看圖表中文支援狀況

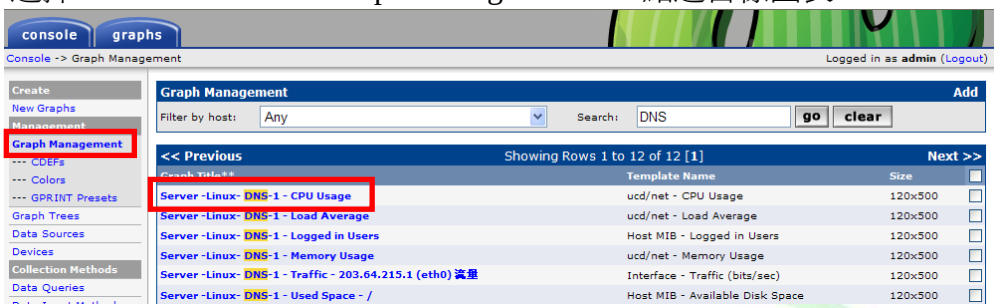


十、圖表中文化

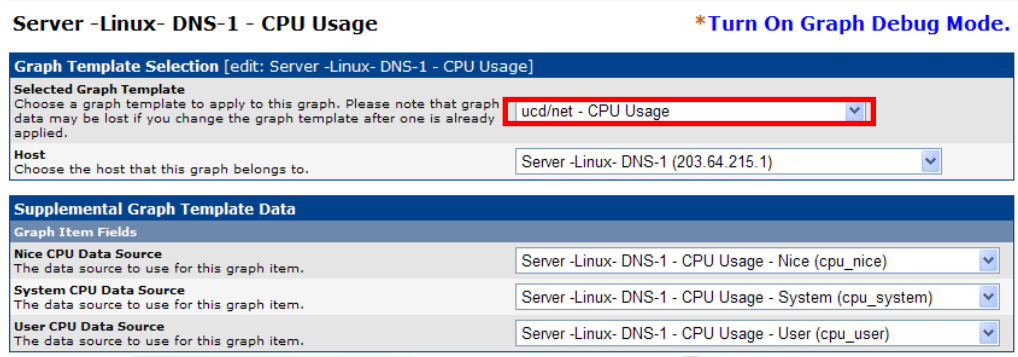
10.1 圖表樣版(Graph Template)中文化

a. 選擇 

=> Graph Management => 點選目標圖表

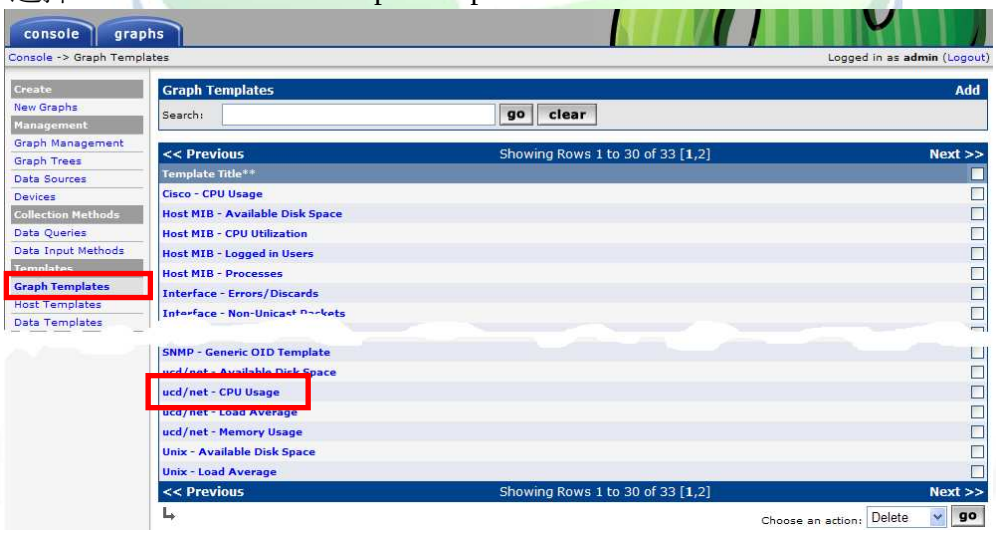


b. 取得圖表樣版名稱

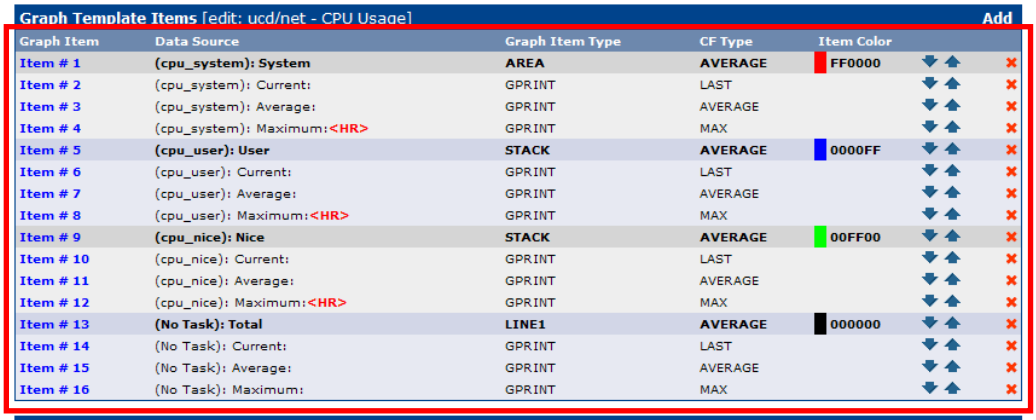


c. 選擇 

=> Graph Templates

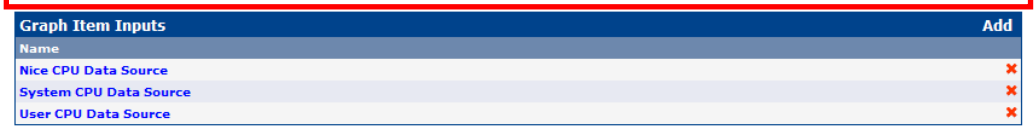


d. 圖表樣版內容



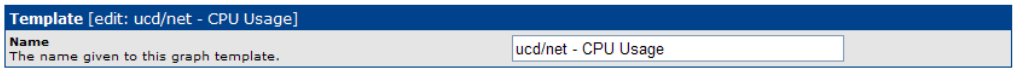
Graph Template Items [edit: ucd/net - CPU Usage] — Add

Graph Item	Data Source	Graph Item Type	CF Type	Item Color
Item # 1	(cpu_system): System	AREA	AVERAGE	FF0000
Item # 2	(cpu_system): Current:	GPRINT	LAST	
Item # 3	(cpu_system): Average:	GPRINT	AVERAGE	
Item # 4	(cpu_system): Maximum:<HR>	GPRINT	MAX	
Item # 5	(cpu_user): User	STACK	AVERAGE	0000FF
Item # 6	(cpu_user): Current:	GPRINT	LAST	
Item # 7	(cpu_user): Average:	GPRINT	AVERAGE	
Item # 8	(cpu_user): Maximum:<HR>	GPRINT	MAX	
Item # 9	(cpu_nice): Nice	STACK	AVERAGE	00FF00
Item # 10	(cpu_nice): Current:	GPRINT	LAST	
Item # 11	(cpu_nice): Average:	GPRINT	AVERAGE	
Item # 12	(cpu_nice): Maximum:<HR>	GPRINT	MAX	
Item # 13	(No Task): Total	LINE1	AVERAGE	000000
Item # 14	(No Task): Current:	GPRINT	LAST	
Item # 15	(No Task): Average:	GPRINT	AVERAGE	
Item # 16	(No Task): Maximum:	GPRINT	MAX	



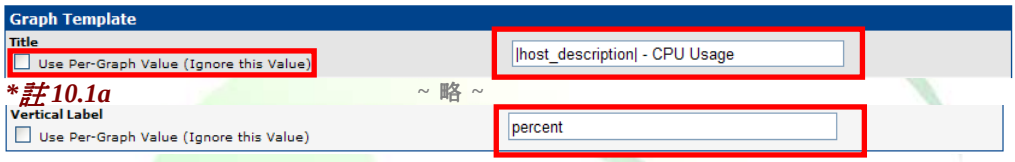
Graph Item Inputs — Add

Name
Nice CPU Data Source
System CPU Data Source
User CPU Data Source



Template [edit: ucd/net - CPU Usage]

Name
The name given to this graph template.
ucd/net - CPU Usage



Graph Template

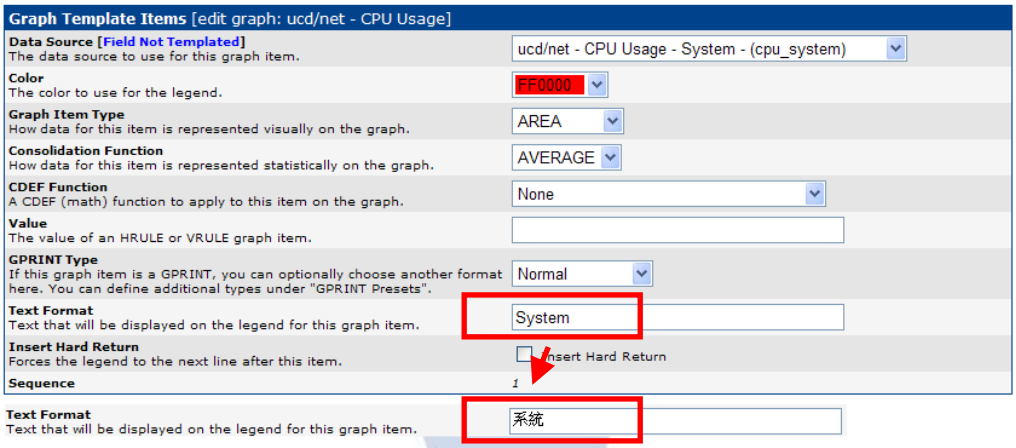
Title
☐ Use Per-Graph Value (Ignore this Value)
|host_description| - CPU Usage

*註 10.1a

~ 略 ~

Vertical Label
☐ Use Per-Graph Value (Ignore this Value)
percent

e. 修改圖表說明欄位(Graph Item)



Graph Template Items [edit graph: ucd/net - CPU Usage]

Data Source [Field Not Templated]
The data source to use for this graph item.
ucd/net - CPU Usage - System - (cpu_system)

Color
The color to use for the legend.
FF0000

Graph Item Type
How data for this item is represented visually on the graph.
AREA

Consolidation Function
How data for this item is represented statistically on the graph.
AVERAGE

CDEF Function
A CDEF (math) function to apply to this item on the graph.
None

Value
The value of an HRULE or VRULE graph item.

GPRINT Type
If this graph item is a GPRINT, you can optionally choose another format here. You can define additional types under "GPRINT Presets".
Normal

Text Format
Text that will be displayed on the legend for this graph item.
System

Insert Hard Return
Forces the legend to the next line after this item.
☐ Insert Hard Return

Sequence
1

Text Format
Text that will be displayed on the legend for this graph item.
系統

f. 圖表樣版修改後狀況

Graph Template Items [edit: ucd/net - CPU Usage] — Add

Graph Item	Data Source	Graph Item Type	CF Type	Item Color
Item # 1	(cpu_system): 系統	AREA	AVERAGE	FF0000
Item # 2	(cpu_system): 現值:	GPRINT	LAST	
Item # 3	(cpu_system): 平均值:	GPRINT	AVERAGE	
Item # 4	(cpu_system): 最大值:<HR>	GPRINT	MAX	
Item # 5	(cpu_user): 使用者	STACK	AVERAGE	0000FF
Item # 6	(cpu_user): 現值:	GPRINT	LAST	
Item # 7	(cpu_user): 平均值:	GPRINT	AVERAGE	
Item # 8	(cpu_user): 最大值:<HR>	GPRINT	MAX	
Item # 9	(cpu_nice): Nice	STACK	AVERAGE	00FF00
Item # 10	(cpu_nice): 現值:	GPRINT	LAST	
Item # 11	(cpu_nice): 平均值:	GPRINT	AVERAGE	
Item # 12	(cpu_nice): 最大值:<HR>	GPRINT	MAX	
Item # 13	(No Task): 總合	LINE1	AVERAGE	000000
Item # 14	(No Task): 現值:	GPRINT	LAST	
Item # 15	(No Task): 平均值:	GPRINT	AVERAGE	
Item # 16	(No Task): 最大值:	GPRINT	MAX	

Graph Item Inputs — Add

Name
Nice CPU Data Source
System CPU Data Source
User CPU Data Source

Template [edit: ucd/net - CPU Usage]

Name
The name given to this graph template.
ucd/net - CPU Usage

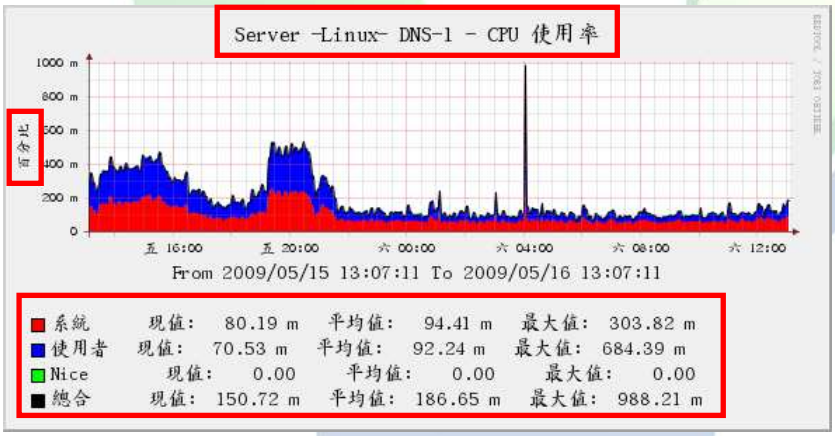
Graph Template

Title
Use Per-Graph Value (Ignore this Value)
|host_description| - CPU 使用率

~ 略 ~

Vertical Label
Use Per-Graph Value (Ignore this Value)
百分比

效果：

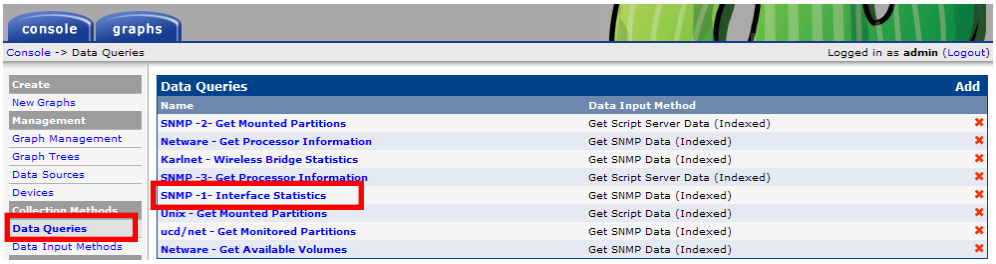


註 10.1a：由此修改圖表樣版時，除了勾選 Use Per-Graph Value (Ignore this Value)的欄位外，會更新 graph_templates_graph 資料表中所有使用此樣版的資料值，因此 Data Queries 樣版(如：網路介面的流量圖表 Interface – Traffic)使用的 Graph Template 的 title 欄位應保持 Use Per-Graph Value (Ignore this Value)為勾選狀態。關於 Data Queries 樣版的 title 欄位中文化參照 10.2 章節。

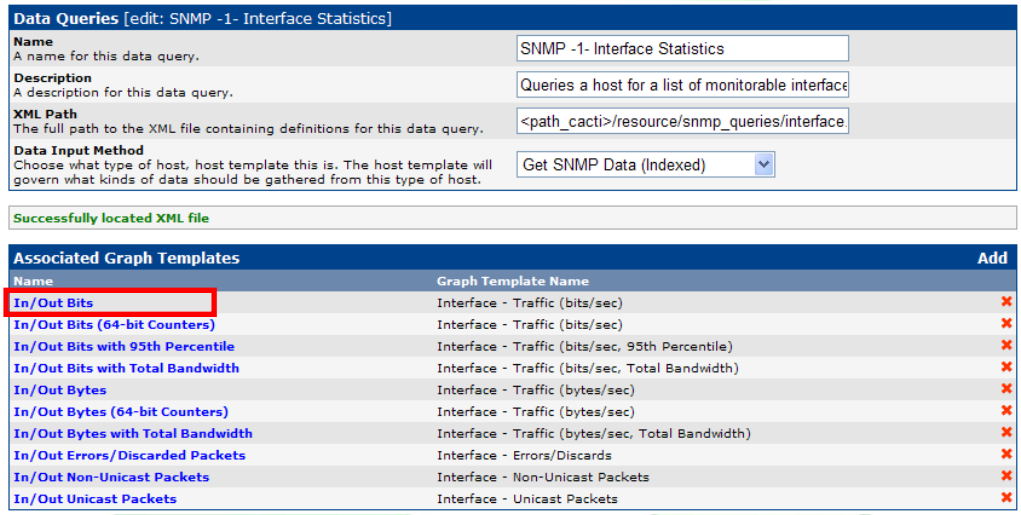
10.2 Data Queries 的圖表樣版中文化

a. 選擇 

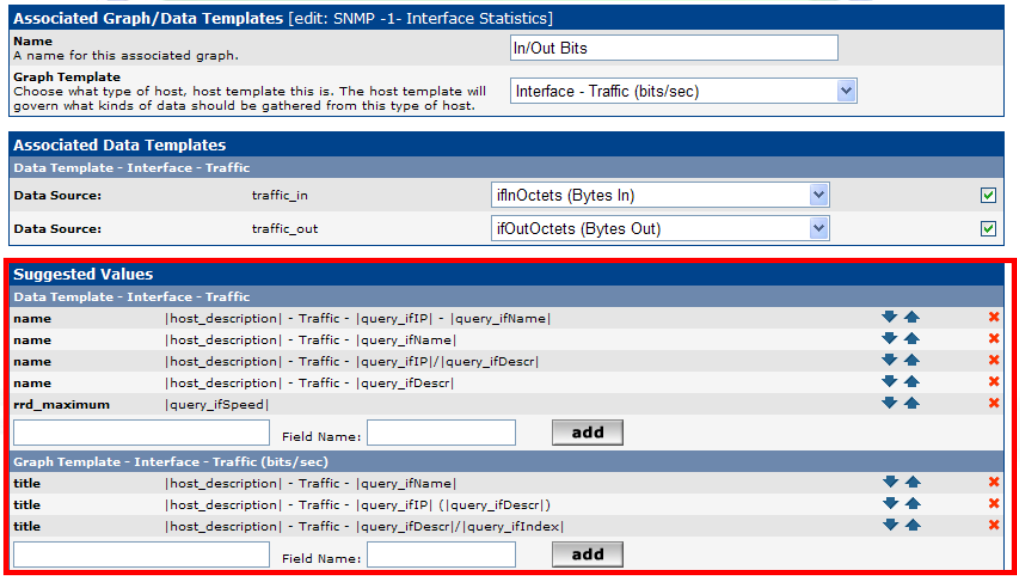
=> Data Queries => SNMP -1- Interface Statistics



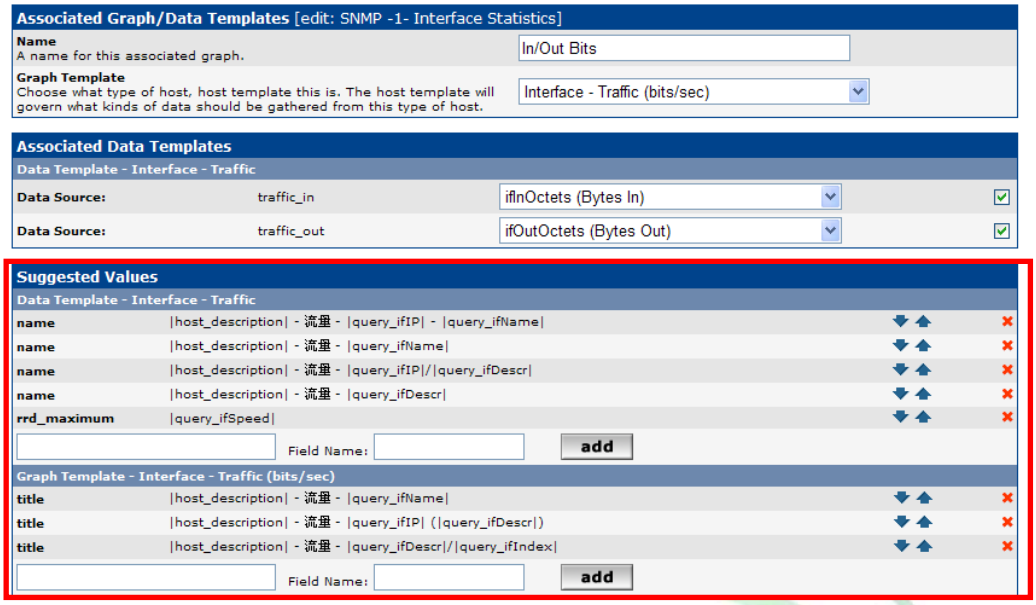
b. 選擇 Associated Graph Templates



c. 對 Suggested Values 進行中文化 **(b 步驟中所有 Associated Graph Templates 都要中文化)**



d. 中文化結果 **(*註 10.2a)**

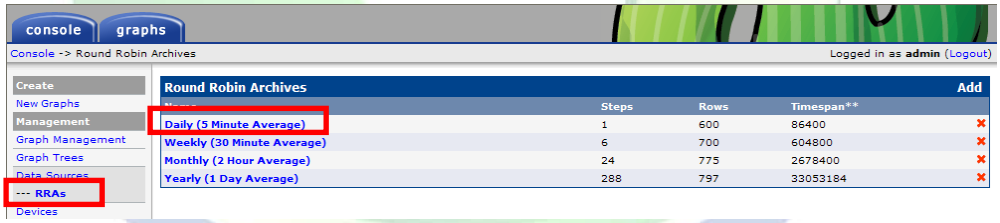


註 10.2a：對 Data Queries 圖表樣版中文化只有當新增圖表時，由此取得中文圖表標題，而不會改變已建立的圖表標題。變更已建立的圖表標題請參照章節七、修改圖表標題及 10.1 章節中的 title 欄位 Use Per-Graph Value (Ignore this Value)用法

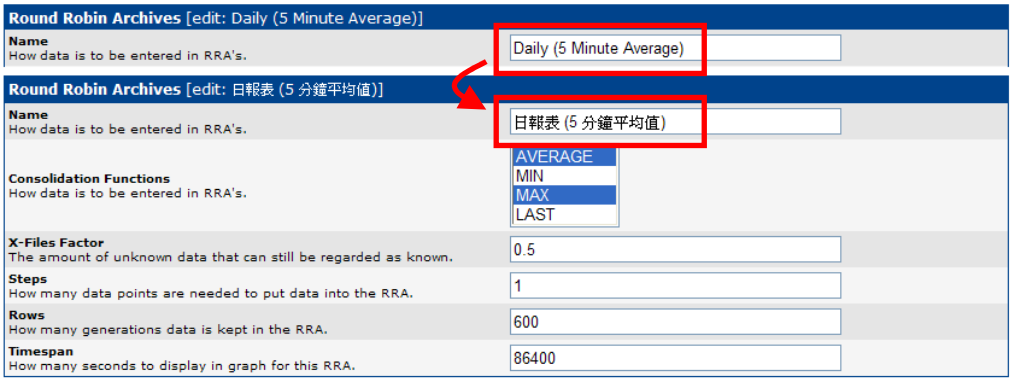
10.3 對圖表 Round Robin Archives 名稱中文化

a. 選擇 

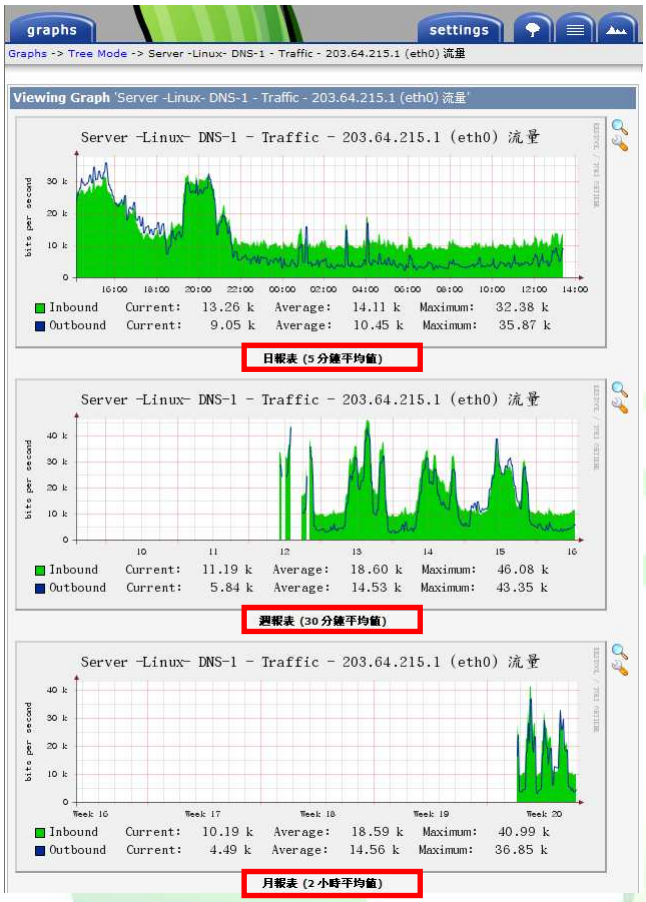
=> Data Sources => RRAs



b. 點擊目標項目進入修改 Name 欄位



c. 中文化結果



附錄一、常用 Linux OID/MIB 對照表

.1.3.6.1.2.1.1	SNMPv2-MIB::system
.1.3.6.1.2.1.2	IF-MIB::interfaces
.1.3.6.1.2.1.3	RFC1213-MIB::at (ip-mac-arp info)
.1.3.6.1.2.1.4	IP-MIB::ip (network info)
.1.3.6.1.2.1.5	IP-MIB::icmp (ICMP info)
.1.3.6.1.2.1.6	TCP-MIB::tcp (TCP info)
.1.3.6.1.2.1.7	UDP-MIB::udp (UDP info)
.1.3.6.1.2.1.8	RFC1213-MIB::egp (egp info)
.1.3.6.1.2.1.11	SNMPv2-MIB::snmp (SNMP info)
.1.3.6.1.2.1.25	HOST-RESOURCES-MIB::host
.1.3.6.1.2.1.25.1	HOST-RESOURCES-MIB::hrSystem
.1.3.6.1.2.1.25.1.1	HOST-RESOURCES-MIB::hrSystemUptime
.1.3.6.1.2.1.25.2	HOST-RESOURCES-MIB::hrStorage
.1.3.6.1.2.1.25.2.1	HOST-RESOURCES-MIB::hrStorageTypes
.1.3.6.1.2.1.25.2.2	HOST-RESOURCES-MIB::hrMemorySize
.1.3.6.1.4.1.2021	UCD-SNMP-MIB::ucdavis
.1.3.6.1.4.1.2021.4	UCD-SNMP-MIB::memory
.1.3.6.1.4.1.2021.10	UCD-SNMP-MIB::laTable

參考資料

酷!學園 [分享]RRDTool 中文版安裝經驗：
http://phorum.study-area.org/index.php?action=printpage;topic=23822.0

RRDTool 中文 Ebuild：
http://blog.t-times.net/ada/space/start/2006-04-26/1

使用 cacti 監測系統性能：
http://dz.adj.idv.tw/archiver/tid-145.html

Change Log

20090513 初版完成

20090514 **新增七、修改圖表標題**

20090515 **新增八、設備及伺服器 snmp 設定**

新增附錄一、常用 Linux OID/MIB 對照表

新增九、CACTI 圖表中文支援

新增參考資料

20090516 **新增十、圖表中文化**