

Cacti 簡易使用手冊

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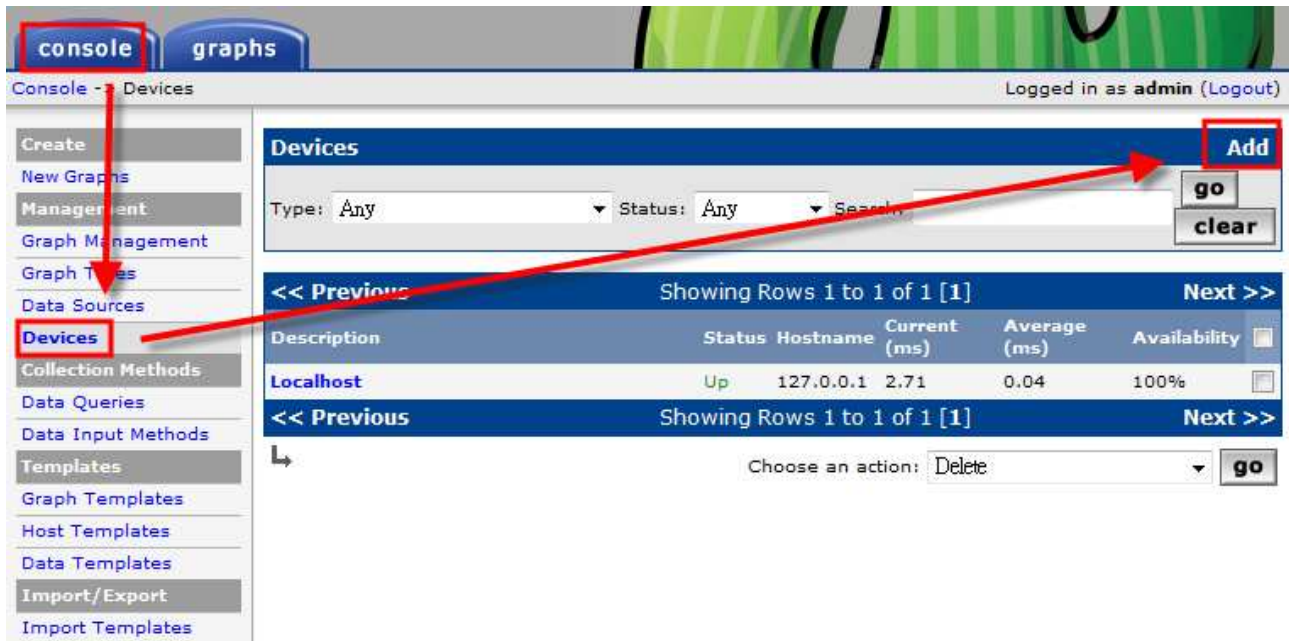
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一、建立設備

1. 登入系統後，點選 "console" > "Devices" > "Add"



2. 建立設備的主畫面，一般會有兩大類別，Devices 設備選項與 SNMP 選項，每個項目各代表：

Description : 設備描述

Hostname : 設備名稱或 IP 位址

Host Template : 設備類別，這跟之後監測的東西有關，常用的有 Local Linux Machine、Generic SNMP-enabled Host、Windows 2000/XP Host 等等

Disable Host

SNMP Community : SNMP 的 Community

SNMP Username : SNMP 的帳號

SNMP Password : SNMP 的密碼

SNMP Version : SNMP 的版本

SNMP Port : SNMP 的監聽埠

SNMP Timeout : SNMP 的 Timeout 時間

Devices [new]	
Description Give this host a meaningful description.	cacti
Hostname Fill in the fully qualified hostname for this device.	192.168.1.6
Host Template Choose what type of host, host template this is. The host template will govern what kinds of data should be gathered from this type of host.	Local Linux Machine
Disable Host Check this box to disable all checks for this host.	<input type="checkbox"/> Disable Host
SNMP Options	
SNMP Community Fill in the SNMP read community for this device.	public
SNMP Username (v3) Fill in the SNMP v3 username for this device.	
SNMP Password (v3) Fill in the SNMP v3 password for this device.	
SNMP Version Choose the SNMP version for this host.	Version 2
SNMP Port Enter the UDP port number to use for SNMP (default is 161).	161
SNMP Timeout The maximum number of milliseconds Cacti will wait for an SNMP response (does not work with php-snmp support).	500
<input type="button" value="cancel"/> <input type="button" value="create"/>	

輸入完之後按右下方的 **create** 新增設備。

3. 成功之後會出現如下圖的畫面，要注意 **SNMP** 資訊是否有異常

Save Successful.

cacti (192.168.1.129)

SNMP Information

System: Linux CentOS53.com 2.6.18-128.1.10.c15 #1 SMP Thu May 7 10:39:21 EDT 2009 i686
Uptime: 282989
Hostname: CentOS53.com
Location: Unknown (odit /etc/snmp/snmpd.conf)
Contact: Root root@localhost (configure /etc/snmp/snmp.local.conf)

二、新增設備圖表

1. 登入系統後依序點選 "console" > "Devices" 然後點選你要設定的設備

Description	Status	Hostname	Current (ms)	Average (ms)	Availability
2950	Up	192.168.1.250	6.06	6.26	100%
cacti	Unknown	192.168.1.129	0	0	100%
localhost	Up	127.0.0.1	3.85	0.78	100%

2. 點選右上角的 "Create Graphs for this Host"

cacti (192.168.1.129)

SNMP Information

System: Linux CentOS33.com 2.6.18-128.1.10.el5 #1 SMP Thu May 7 10:39:21 EDT 2009 i686
Uptime: 320955
Hostname: CentOS33.com
Location: Unknown (edit /etc/snmp/snmpd.conf)
Contact: Root: root@localhost (configure /etc/snmp/snmp.local.conf)

[*Create Graphs for this Host](#)

Devices [edit: cacti]

Description Give this host a meaningful description.	<input type="text" value="cacti"/>
Hostname Fill in the fully qualified hostname for this device.	<input type="text" value="192.168.1.129"/>
Host Template Choose what type of host, host template this is. The host template will govern what kinds of data should be gathered from this type of host.	Generic SNMP-enabled Host ▾
Disable Host Check this box to disable all checks for this host.	<input type="checkbox"/> Disable Host
SNMP Options	
SNMP Community Fill in the SNMP read community for this device.	<input type="text" value="public"/>
SNMP Username (v3) Fill in the SNMP v3 username for this device.	<input type="text"/>
SNMP Password (v3) Fill in the SNMP v3 password for this device.	<input type="text"/>
SNMP Version Choose the SNMP version for this host.	Version 2 ▾
SNMP Port Enter the UDP port number to use for SNMP (default is 161).	<input type="text" value="161"/>

3. 點選要新增的圖表，點選完後按一下右下角的 create

Graph Templates

Graph Template Name	
Create: Linux - Memory Usage	<input checked="" type="checkbox"/>
Create: Unix - Load Average	<input checked="" type="checkbox"/>
Create: Unix - Logged in Users	<input checked="" type="checkbox"/>
Create: Unix - Processes	<input checked="" type="checkbox"/>
Create: (Select a graph type to create)	<input type="checkbox"/>

Data Query [SNMP - Interface Statistics]

Index	Status	Description	Name (IF-MIB)	Alias (IF-MIB)	Type	Speed	Hardware Address	IP Address	
1	1	lo	lo		24	10000000		127.0.0.1	<input checked="" type="checkbox"/>
2	1	eth0	eth0		6	10000000	00:0C:29:F2:E8:C6	192.168.1.129	<input checked="" type="checkbox"/>
3	2	sit0	sit0		131	0			<input checked="" type="checkbox"/>

Select a graph type: In/Out Bits

Data Query [Unix - Get Mounted Partitions]

Device Name	Mount Point	
/dev/mapper/VolGroup00-LogVol00	/	<input checked="" type="checkbox"/>
/dev/sda1	/boot	<input checked="" type="checkbox"/>

cancel create

4. 新增成功後會在畫面上方顯示訊息

```
+ Created graph: cacti - Memory Usage
+ Created graph: cacti - Load Average
+ Created graph: cacti - Logged in Users
+ Created graph: cacti - Processes
+ Created graph: cacti - Traffic - lo
+ Created graph: cacti - Traffic - eth0
+ Created graph: cacti - Traffic - sit0
+ Created graph: cacti - Disk Space - /dev/mapper/Vol
+ Created graph: cacti - Disk Space - /dev/sda1
```

三、Graph Trees 管理

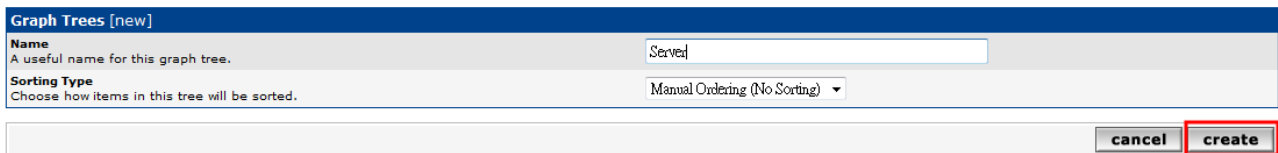
Graph Trees 可用來管理圖表的分類

新增 Graph Trees

1. 點選 "console" > "Graph Trees" 會顯示目前 Graph Trees，預設只有 Default Tree，要新增 Graph Trees 請點選右上方的 "Add"

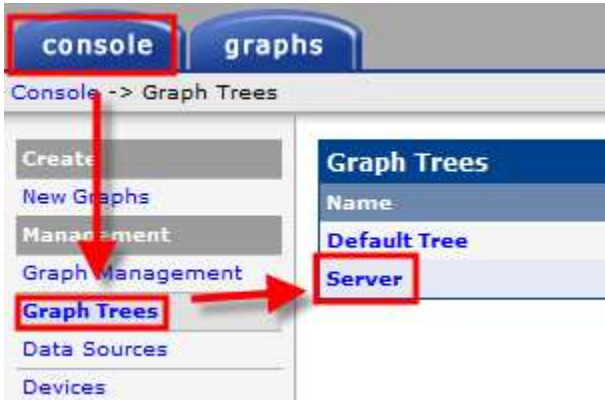


2. 在此頁面輸入 Graph Trees 的資訊，name 為 Graph Trees 的名稱， sorting Type 為圖表的排列順序，輸入完按右下角的 "create" 即可

A screenshot of a form titled 'Graph Trees [new]'. It has two main input fields: 'Name' with the value 'Served' and 'Sorting Type' with a dropdown menu set to 'Manual Ordering (No Sorting)'. Below the form, there are two buttons: 'cancel' and 'create'. The 'create' button is highlighted with a red box.

四、新增圖表到 Graph Trees

1. 點選 "console" > "Graph Trees", 在要新增圖表的 Graph Trees 上點一下, 這裡以 Server 示範



2. 點選 "Add"

A screenshot of a form titled 'Graph Trees [edit: Server]'. The form has two main sections. The first section is for configuration: 'Name' (with a text input containing 'Server'), 'Sorting Type' (with a dropdown menu set to 'Manual Ordering (No Sorting)'), and 'Tree Items' (with a table below it). The table has two columns: 'Item' and 'Value', and currently contains no data. A red box highlights the 'Add' button in the top right corner of the 'Tree Items' section. At the bottom right of the form are 'cancel' and 'save' buttons.

3. Tree Item Type 選擇 "Host", Host 選擇要新增的設備, 選好之後按 create

A screenshot of the 'Tree Items' section of the form. It contains three rows of configuration: 'Parent Item' (dropdown set to '[root]'), 'Tree Item Type' (dropdown set to 'Host'), and 'Tree Item Value' (dropdown set to 'cacti (192.168.1.129)'). The 'Host' and 'cacti (192.168.1.129)' options are highlighted with red boxes. Below these is a 'Graph Grouping Style' dropdown set to 'Graph Template'. At the bottom right are 'cancel' and 'create' buttons.

4. 新增成功後就會 Graph Trees 下面出現該設備了

A screenshot of the 'Graph Trees [edit: Server]' form, showing the result of the previous step. The 'Tree Items' table now contains one row: 'Host: cacti (192.168.1.129)' in the 'Item' column and 'Host' in the 'Value' column. The entire row is highlighted with a red box. The 'cancel' and 'save' buttons are visible at the bottom right.

五、設定設備的 SNMP 設定

Linux

安裝 snmp

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

啟動 snmp

```
service snmpd start
```

開機時啟動

```
chkconfig snmpd on
```

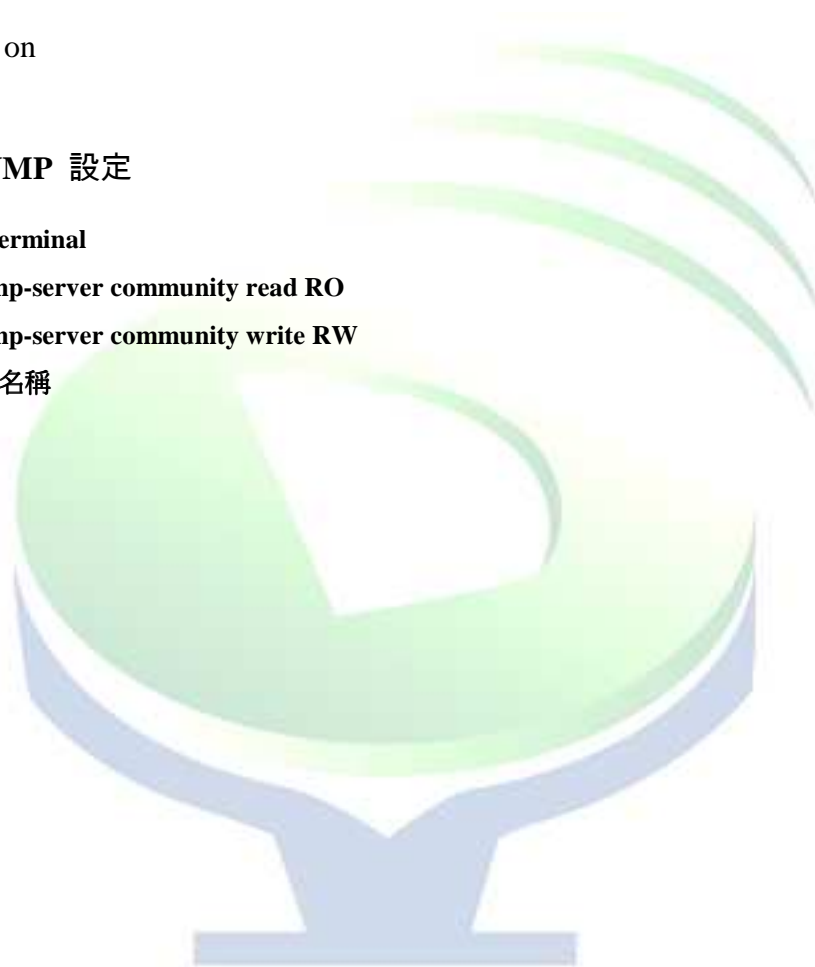
Cisco 交換器SNMP 設定

```
Switch> configure terminal
```

```
Switch(config)> snmp-server community read RO
```

```
Switch(config)> snmp-server community write RW
```

community 為自訂名稱



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