

宜蘭區網中心 CACTI 使用說明

宜蘭區網中心

Cacti 介紹

網路流量圖形監控工具

- SNMP、ICMP、TCP Ping、UDP Ping

監控設備多樣化

- 網路設備(防火牆、Switch)
- 伺服器(CPU、磁碟空間、網卡流量)

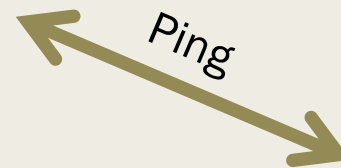
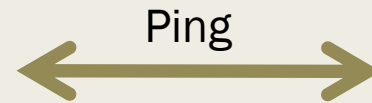
使用者權限控管

- 各校監控自己的設備及流量

偵測架構



宜蘭區網中心
網路監控設備



流量圖

■ 流量類型

- *Traffic*
 - 一般上網、檔案上傳、檔案下載的流量
- *unicast* 單點傳輸
 - 傳給特定目的IP的封包
- *broadcast* 廣播傳輸
 - ARP、網路芳鄰、網路迴圈的封包

■ 流量單位

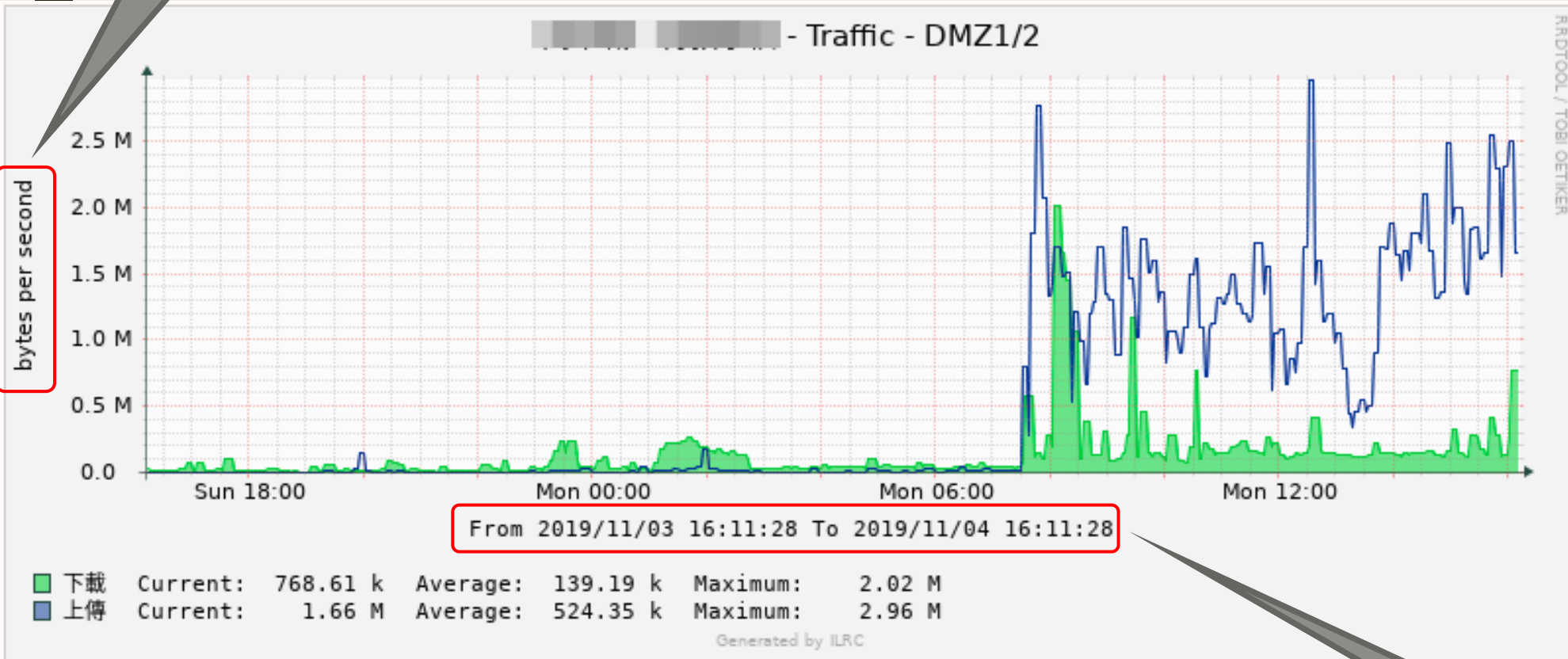
- *bits* (光世代 100Mb/s)
- *bytes* (光世代 $100\text{Mb/s} / 8 = 12.5\text{MB/s}$)

■ 時間

- 天、週、月、年

流量圖 - Traffic

流量單位



將數據匯出成 CSV 檔

realtime
即時流量圖

流量圖的
繪製時間

Daily (1 Minute Average)

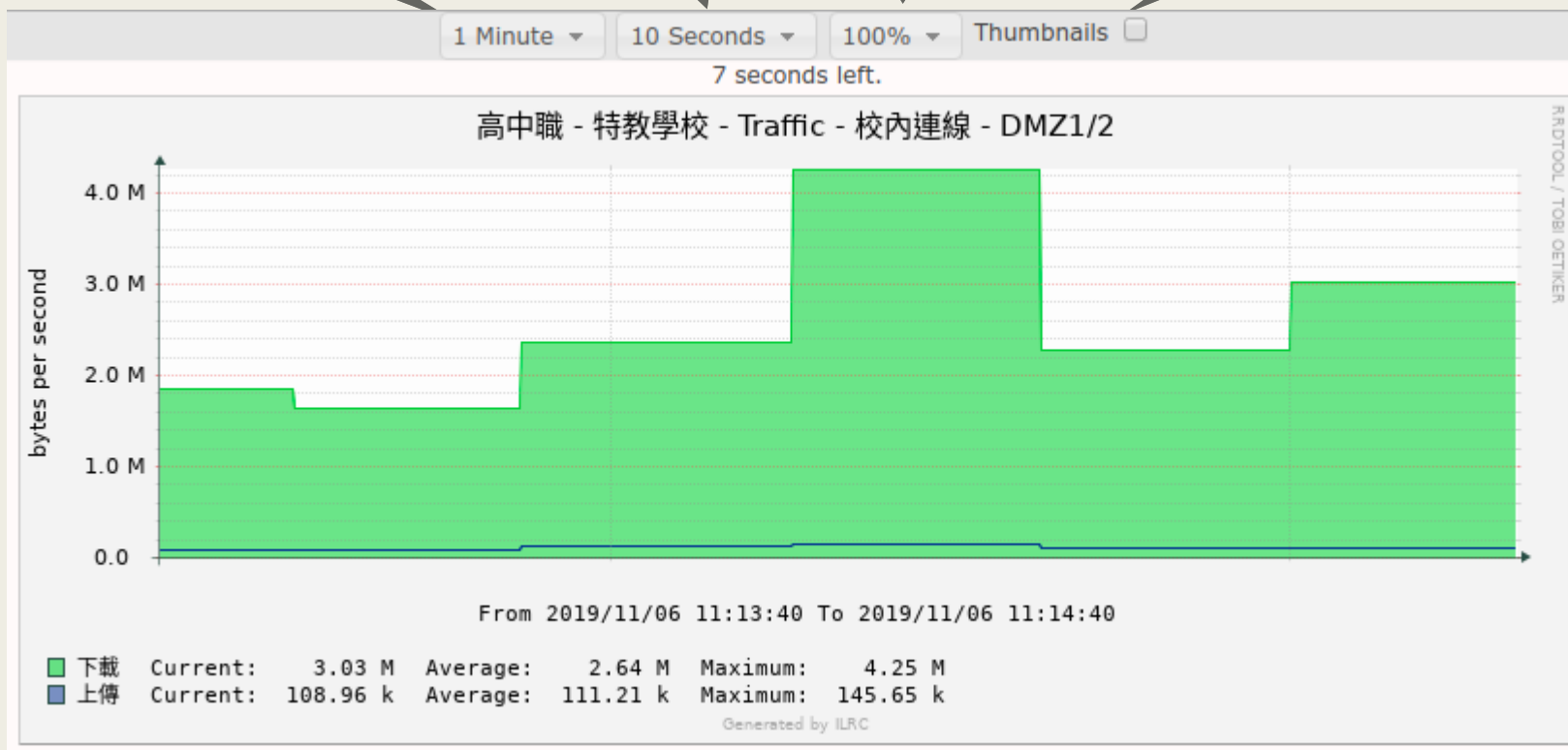
流量圖 - Realtime

顯示的時間
區段為1分鐘

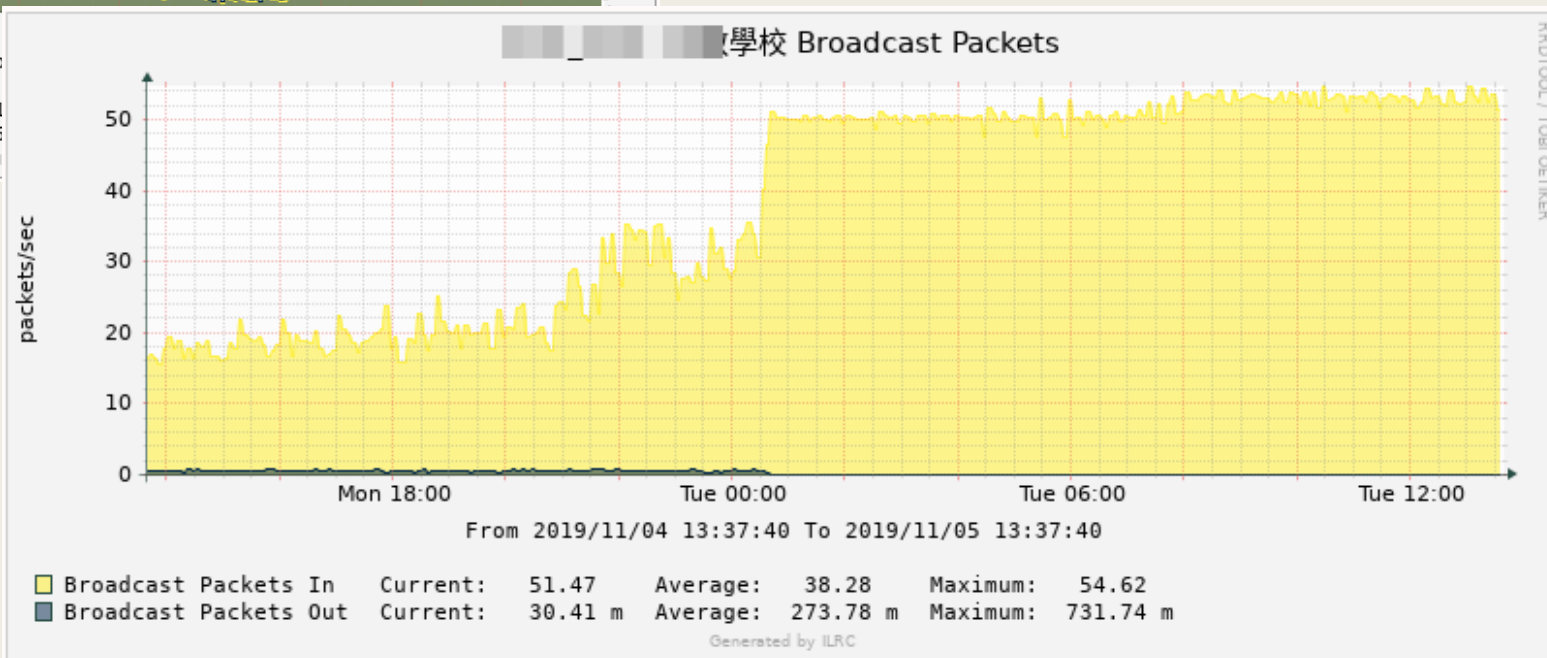
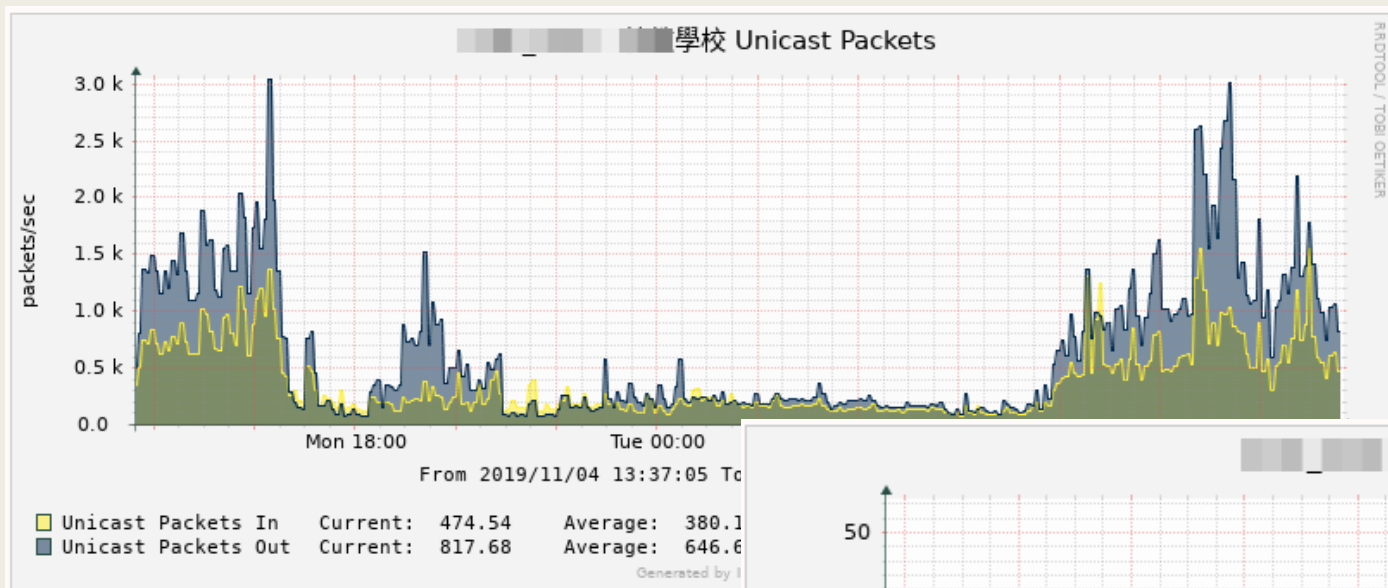
每10秒鐘偵測
一次

圖形顯示比例

是否使用縮圖





流量圖 - Unicast/Broadcast

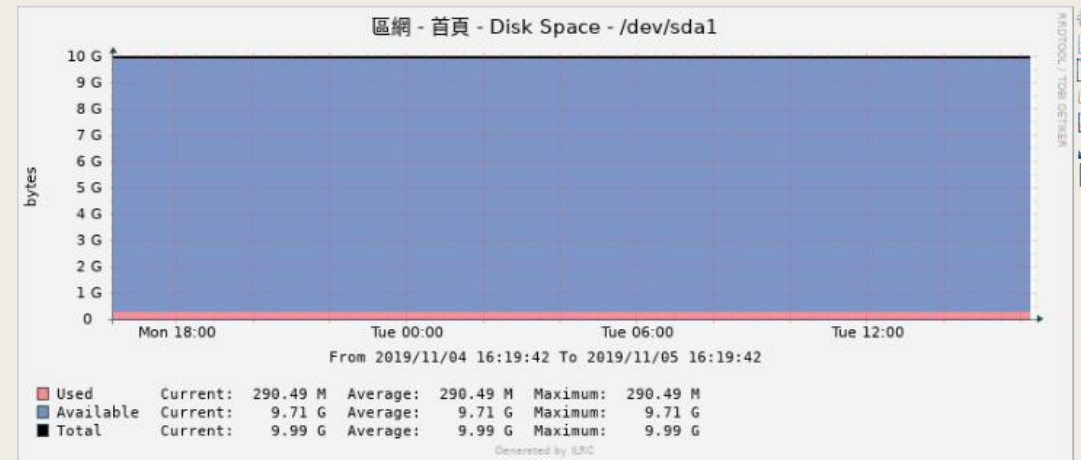
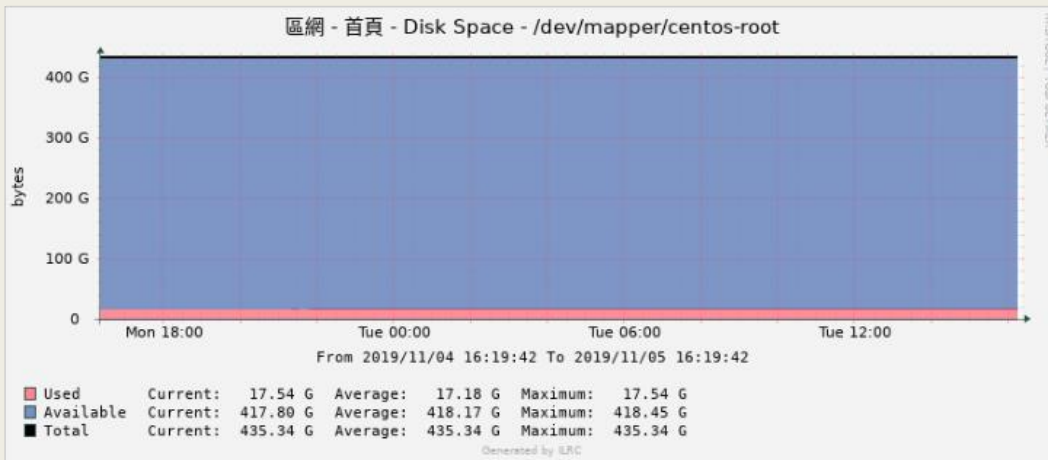
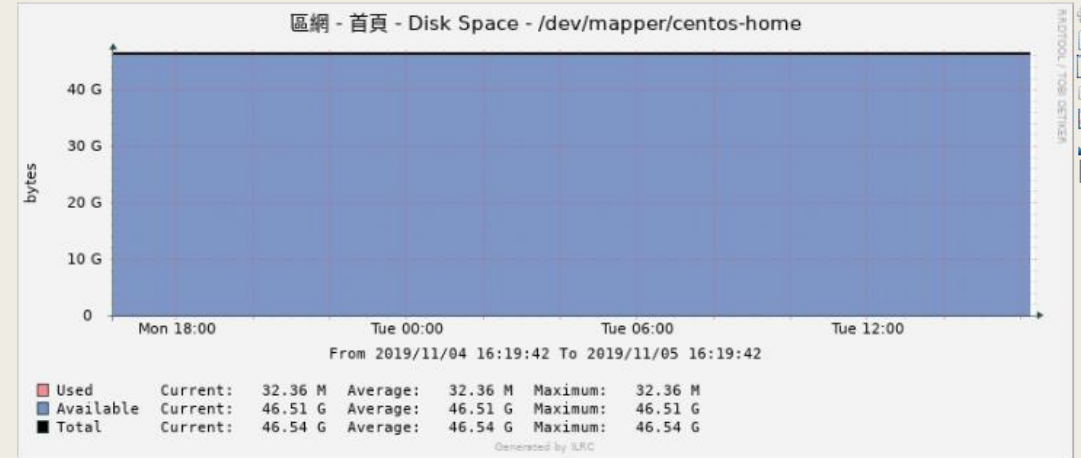
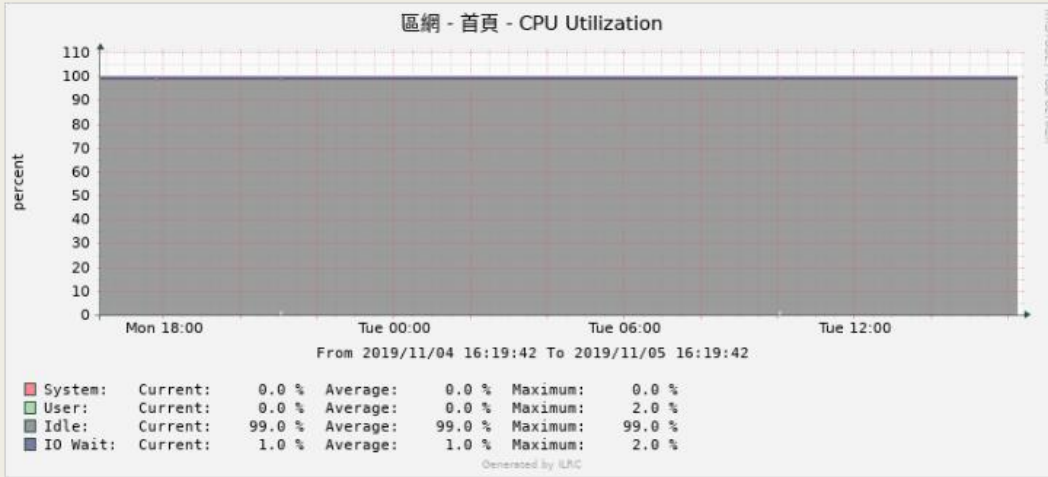


設備監控

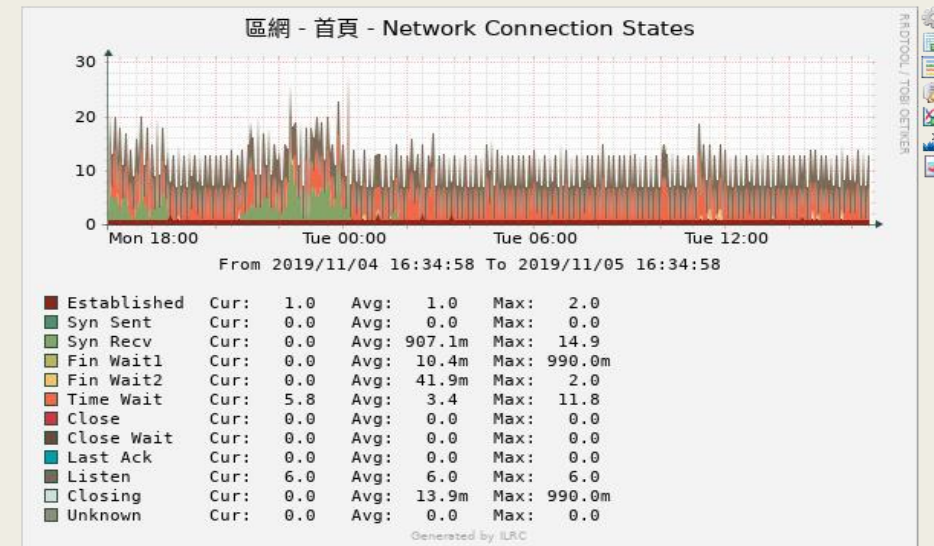
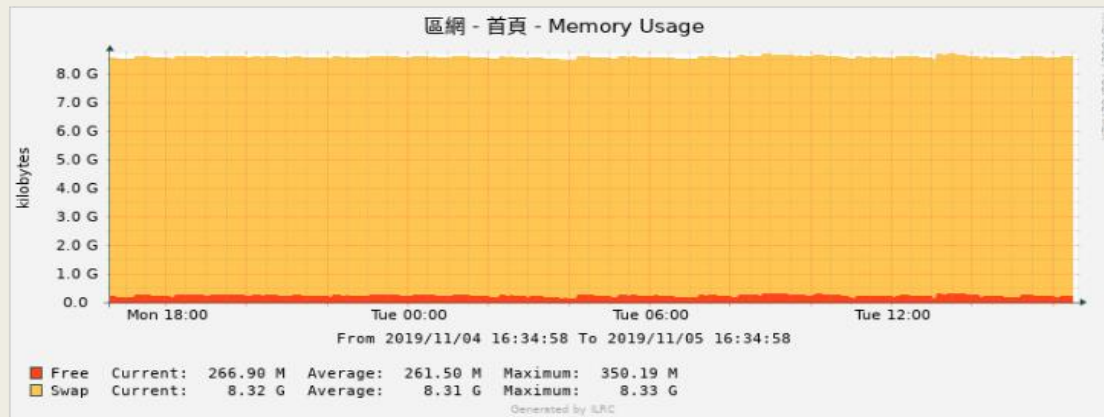
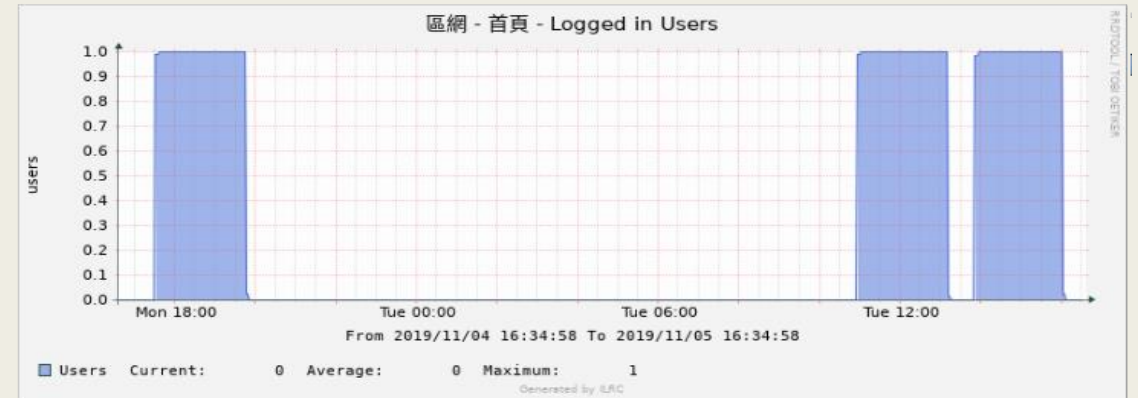
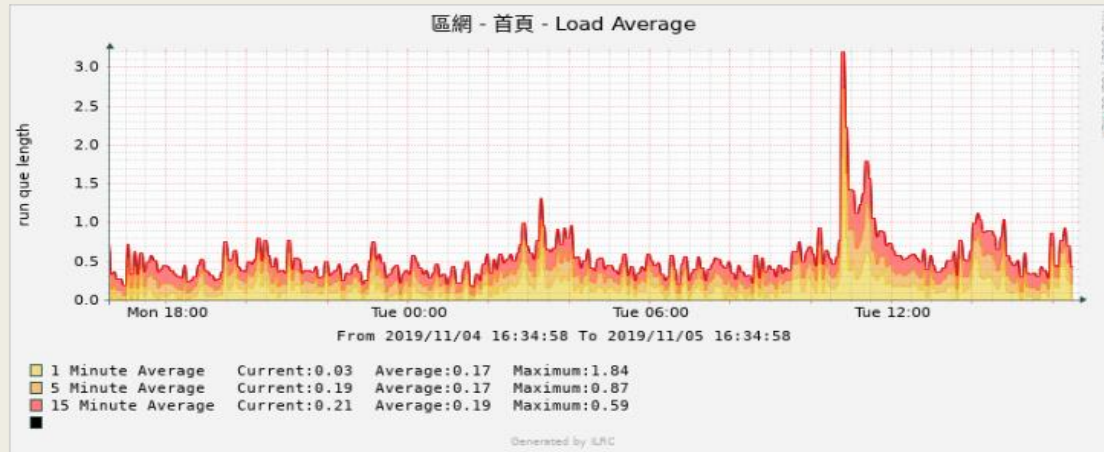
確認從區網連線至各偵測點是否正常

Monitored Devices								
Hostname	Description	Site	Criticality	Availability	Status	Length in status	Averages	Warning
8.8.8.8	Google - DNS	Internet	Low	100 %	Up	Never	3 ms / 3 ms	200 ms / 400 ms
www.google.com	Google - Web	Internet	Low	99.85 %	Up	Never	10 ms / 17 ms	200 ms / 400 ms
168.95.1.1	Hinet-DNS	Internet	Low	78.93 %	Up	2d:7h:3m	3 ms / 3 ms	200 ms / 400 ms
		 Core	High	100 %	Up	181d:23h:8m	0 ms / 1 ms	100 ms / 200 ms
	高中職 - 		High	99.8 %	Up	Never	2 ms / 7 ms	100 ms / 200 ms

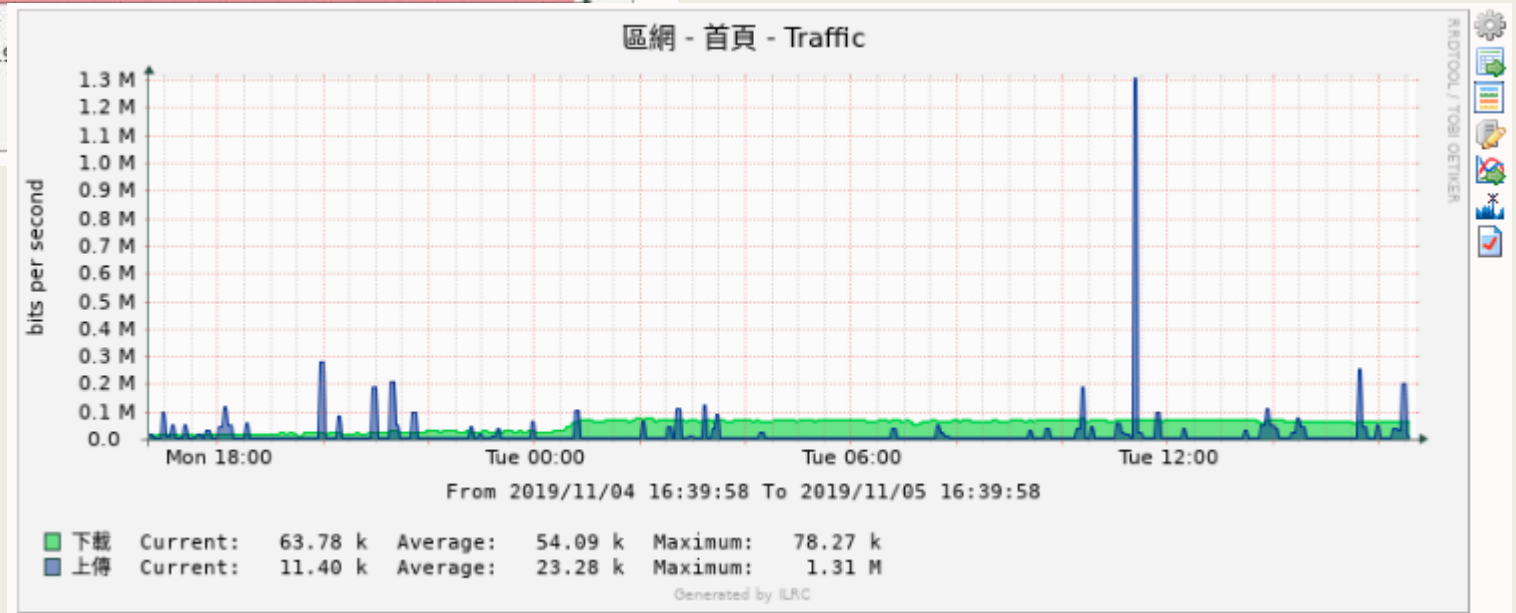
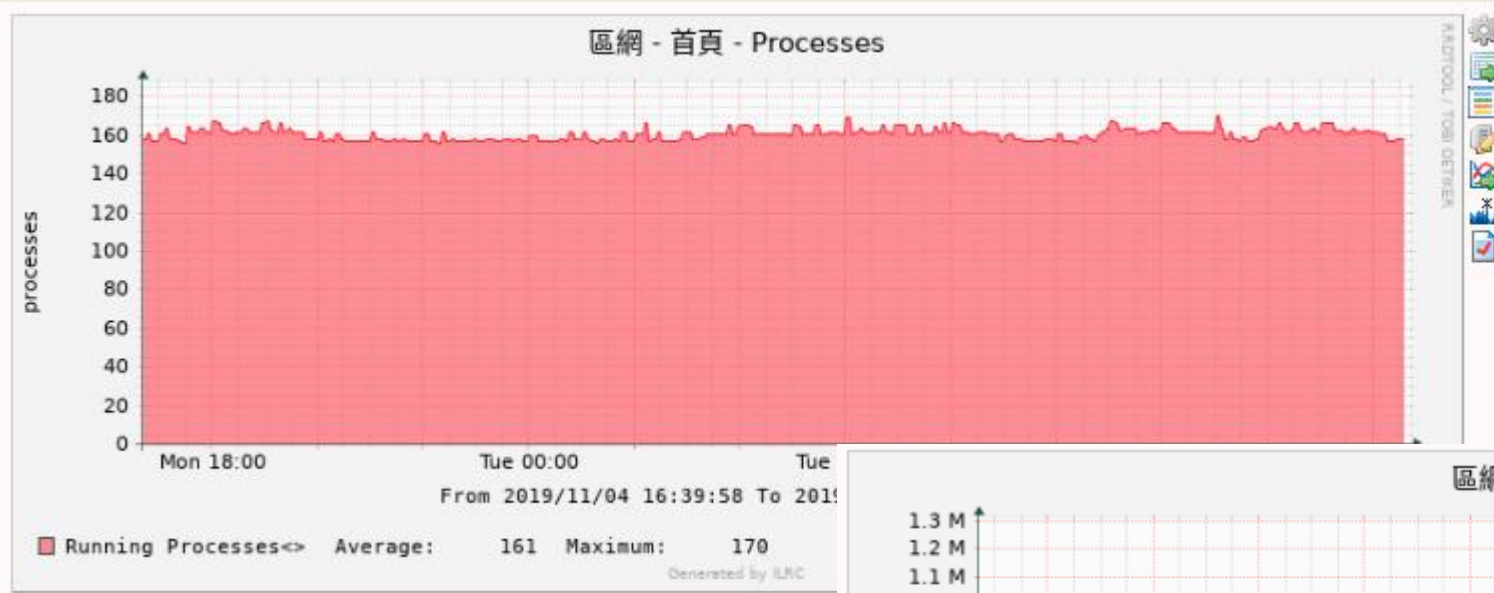
系統監控



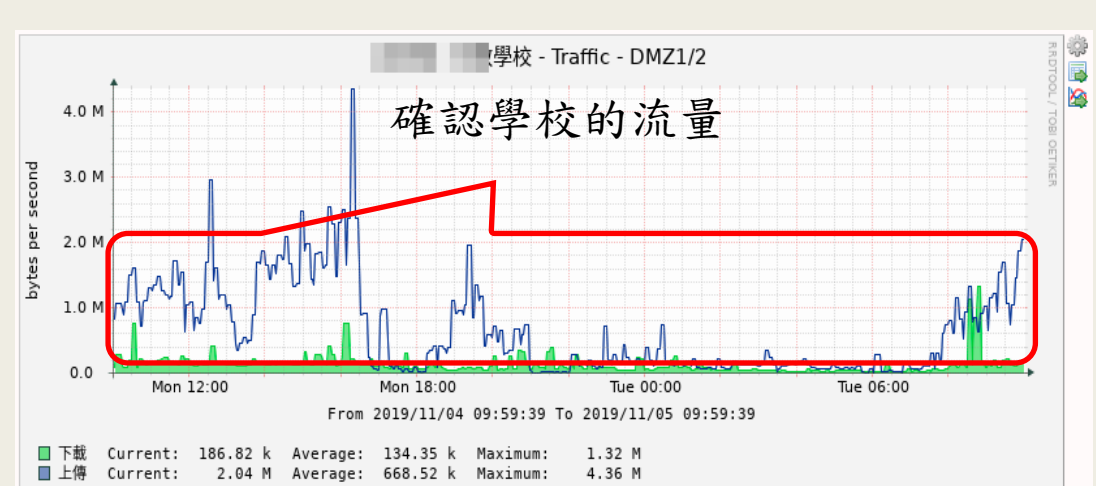
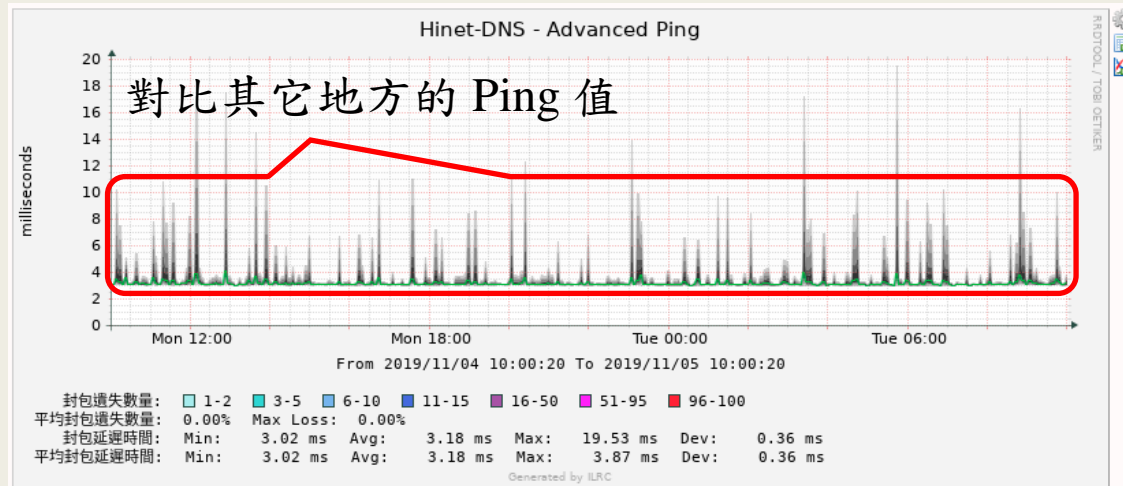
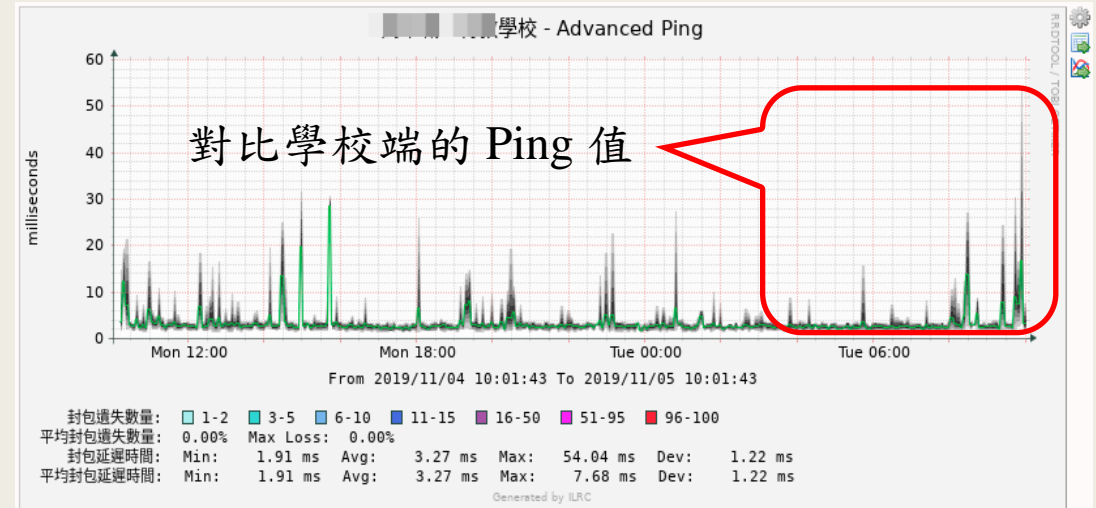
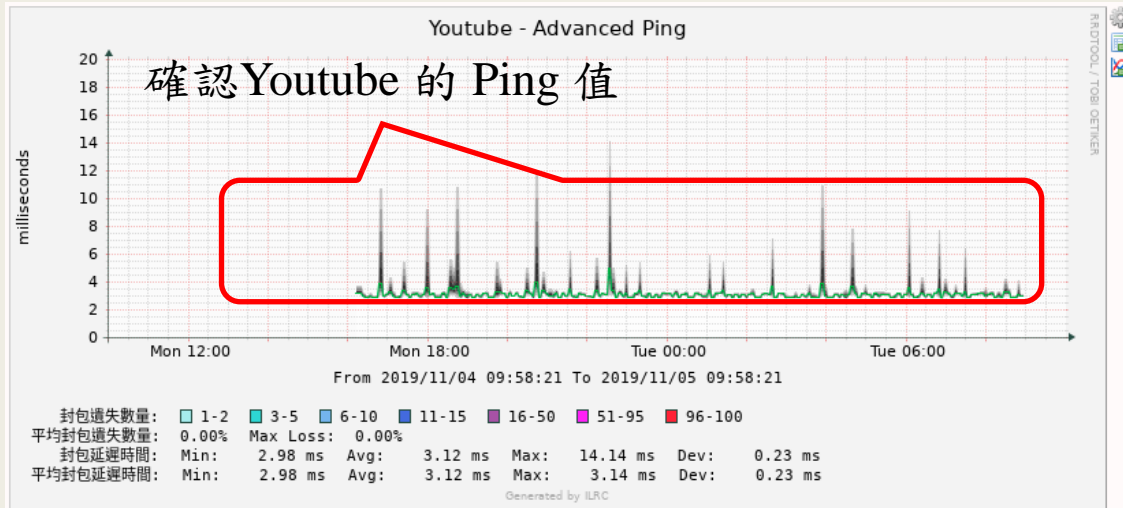
系統監控



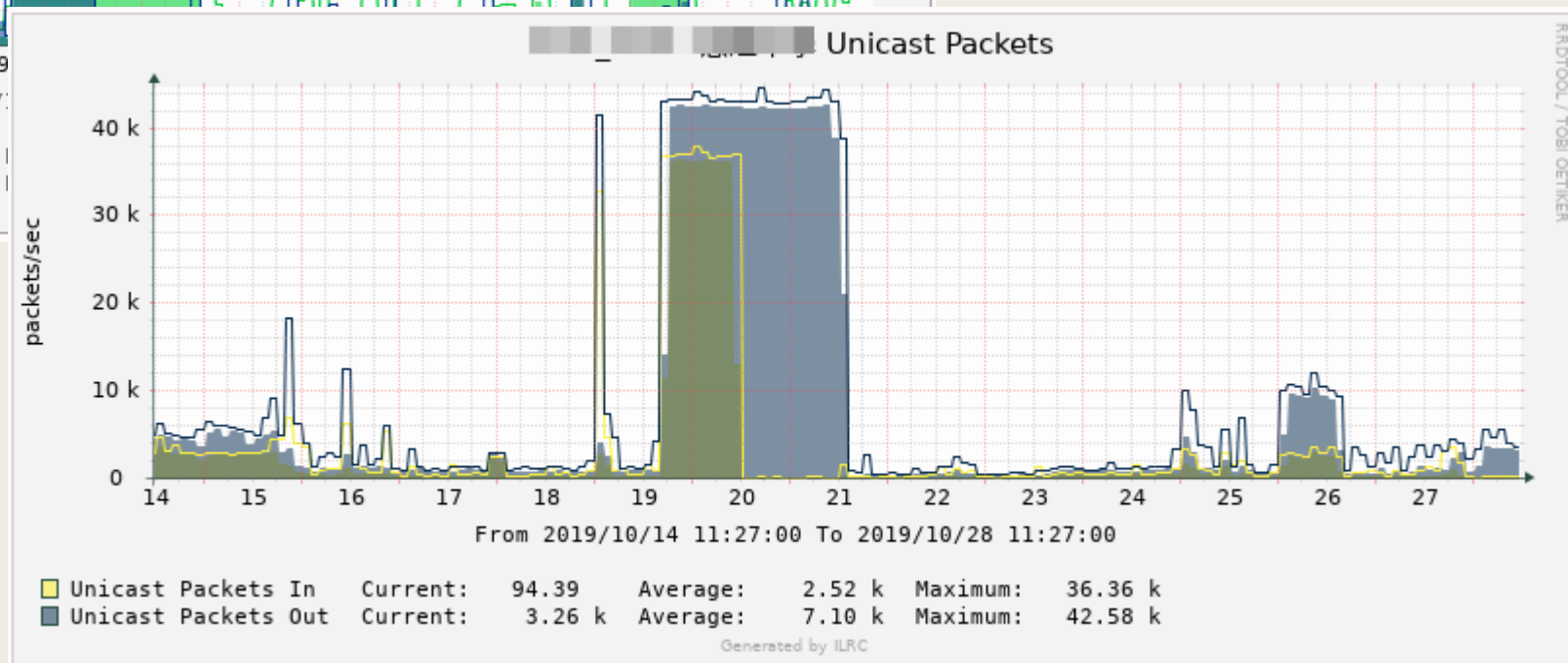
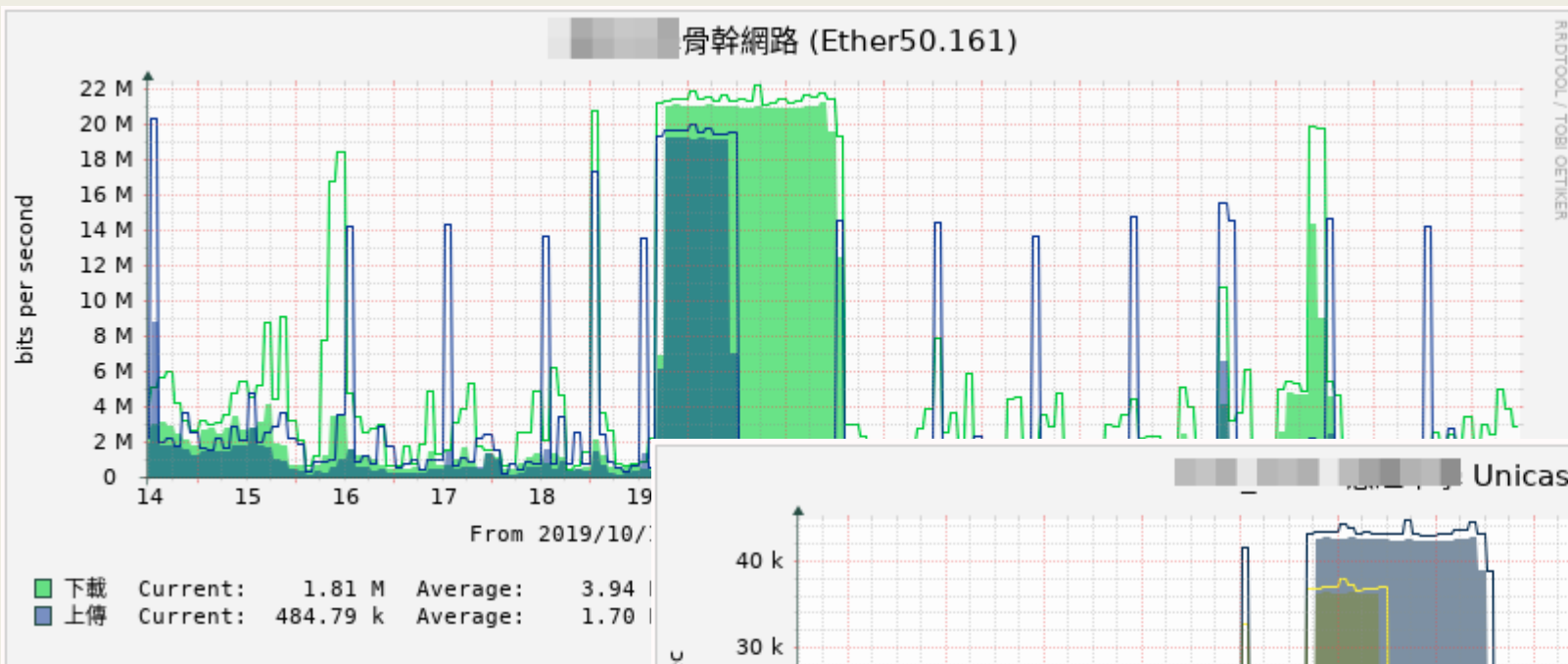
系統監控



看 Youtube 影片很慢，是誰的問題？



學校對外連線很慢



申請方式

