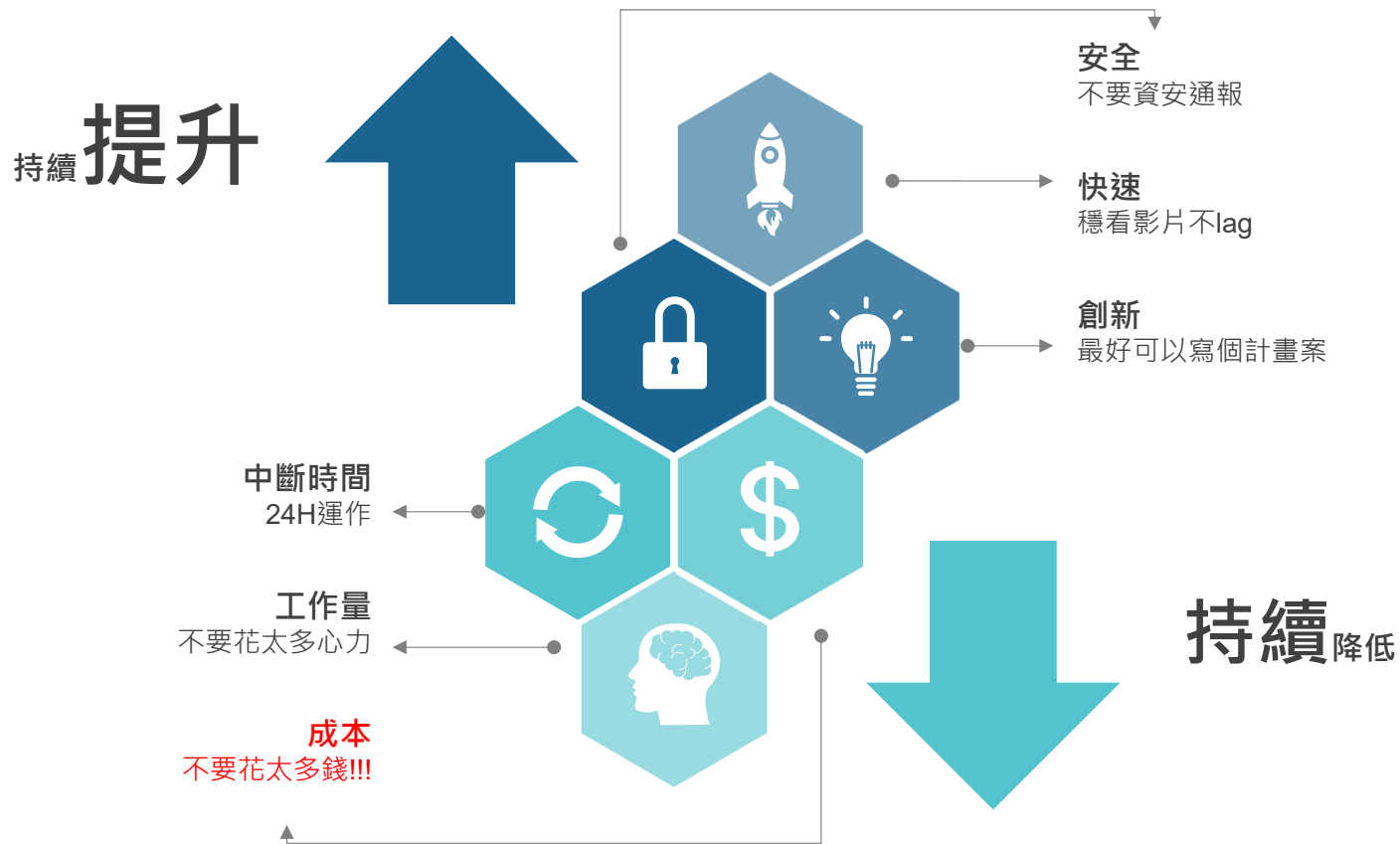


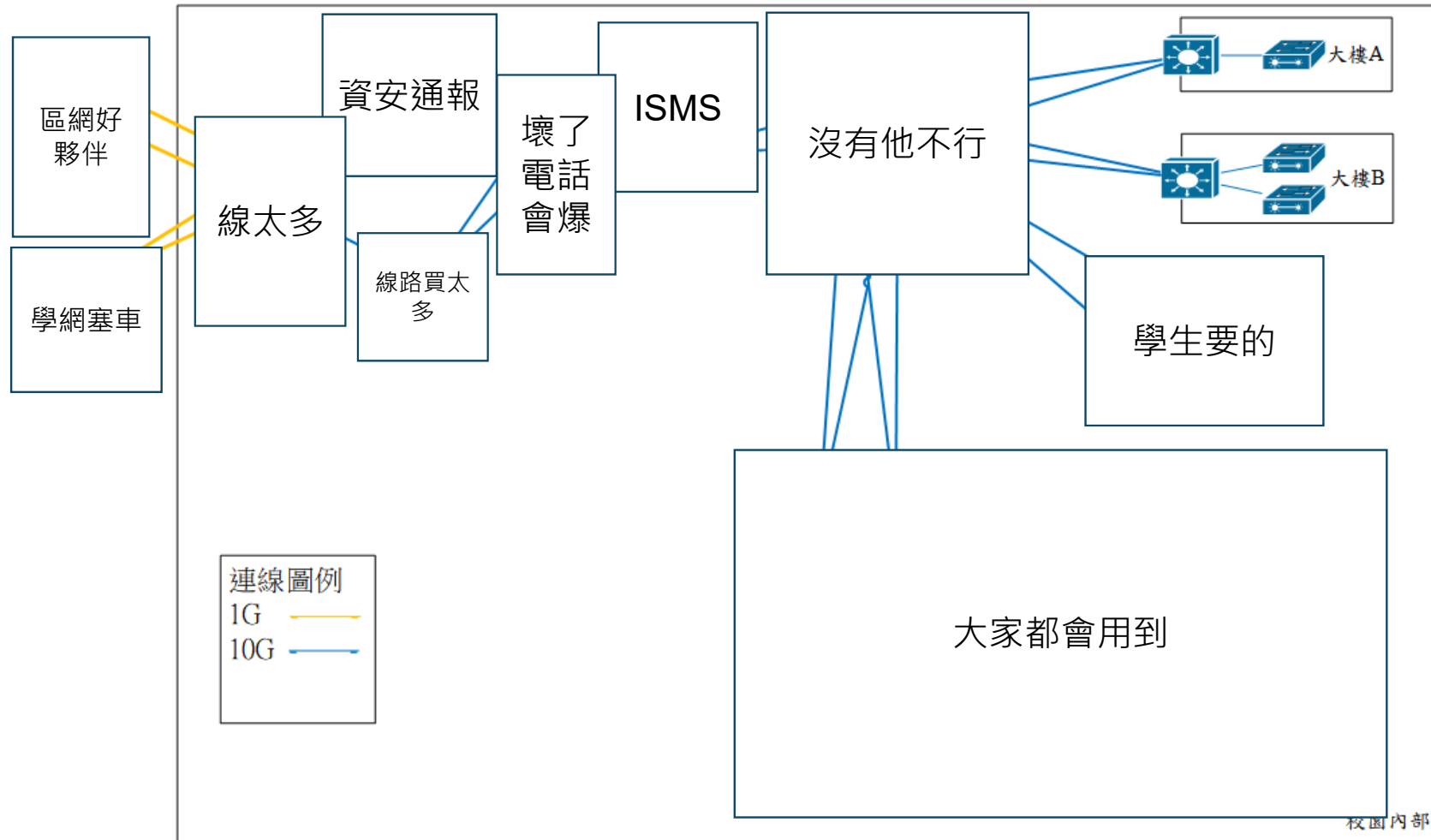
朝陽科大校園網路管理經驗分享 商業 vs. 免費

網路服務組 張君維

校園網路管理需求



校園網路架構



我們需要的服務

網路骨幹

1G & 10G & 40G

防火牆

L3 & WAF

設備監控

SNMP、PING

負載平衡

WAN

IPS

P2P、BOTNET、資安通報

網路LOG

設備、Netflow

流量控制

8G限流

種類選擇



皆大歡喜



商業方案

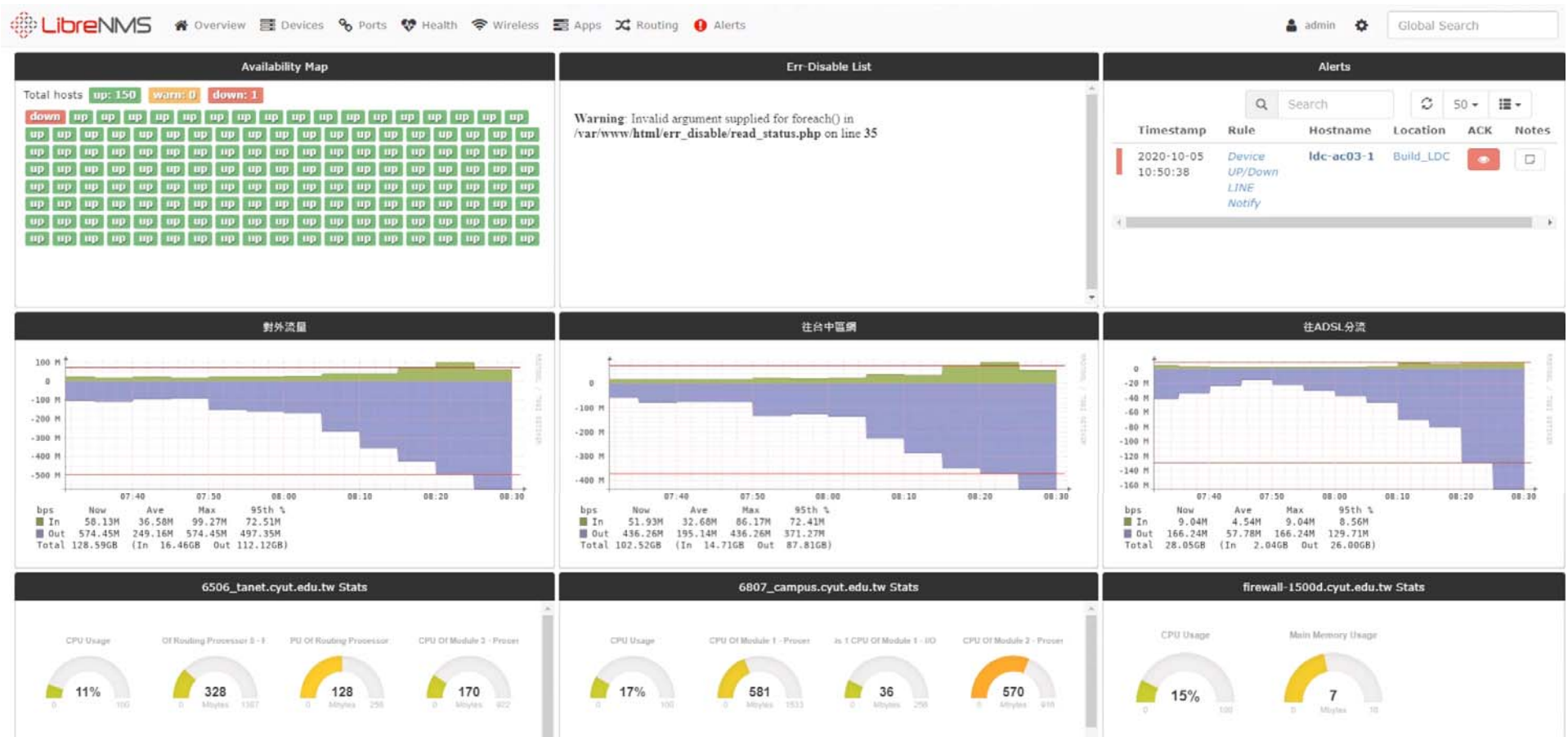
Cisco、Broadco、Aruba、
N-partner、FortiNet、
Windows



免費方案

Librenms、PfSense、
Graylog、Linux

LibreNMS



LibreNMS

LibreNMS Ports Health Wireless Apps Routing Alerts admin Global Search

	a-	52 3	Catalyst 2950G (WS-C2950G-48-EI)	Cisco IOS 12.1(22)EA13 (I6K2L2Q4)	65d 21h 18m 12s	Build_A	
	a- a-	32 4	registration.64.1.1.1.2	Brocade IronWare	65d 21h 20m 44s	Build_A	
	a-	54 4	Catalyst 3560V2 (WS-C3560V2-48PS-S)	Cisco IOS 12.2(55)SE5 (IPBASEK9)	65d 21h 18m 43s	Build_A	
	A- a-	56 55	AT-x530L-52GPX	Alliedware Plus 5.5.0-1.1	39d 21h 28m 57s	Build_A	
	a-	26	catalyst2924XLv	Cisco IOS 12.0(5.3)WC(1) (C3H2S)	65d 21h 19m 7s	Build_A	
	c- c-	32 4	registration.64.1.1.1.2	Brocade IronWare	7d 16h 45m	Build_C	
	c- c-	10 5	EKI-7710G-2CP	Advantech 1.01.03	51d 17h 41m 16s	Build_BUS station	
	CF			Ping only			
	CF			Ping only			
	CY cy	16	amd64	pFSense 2.4.5-RELEASE-p1	104d 19h 12m 30s	Build_LDC	
	CY cy	13	amd64	pFSense 2.4.5-RELEASE-p1	35d 23h 20m 49s	Build_LDC	
	cy cy	14 46	NSMPX-8900 8*CPU+4*F1X+6*E1K+1*E1K+1*COL 8955	Citrix Netscaler NS12.1 (Build 57.18.nc)	83d 21h 9m 45s	Build_LDC	
	cy cy	14 46	NSMPX-8900 8*CPU+4*F1X+6*E1K+1*E1K+1*COL 8955	Citrix Netscaler NS12.1 (Build 57.18.nc)	83d 20h 18m 6s	Build_LDC	
	cy cy	14 46	NSMPX-8900 8*CPU+4*F1X+6*E1K+1*E1K+1*COL 8955	Citrix Netscaler NS12.1 (Build 57.18.nc)	83d 21h 9m 44s	Build_LDC	
	d-	30 3	Catalyst 2960L (WS-C2960L-24PS-LL)	Cisco IOS 15.2(7)E2 (UNIVERSALK9)	6d 17h 34m 56s	Build_D	
	D- d-	52 2	Catalyst 2960 (WS-C2960-48TT-L)	Cisco IOS 12.2(58)SE2 (LANBASEK9)	64d 18h 21m 22s	Build_D	
	d-	77 19	WS-C3850-48P	Cisco IOS-XE 03.06.04.E (UNIVERSALK9)	35d 11h 9s	Build_D	
	d-	57 4	Catalyst 3560G (WS-C3560G-48TS-S)	Cisco IOS 12.2(55)SE5 (IPSERVICESK9)	64d 18h 20m 37s	Build_D	

LibreNMS



LINE Notify

【LibreNMS】 [警報] 裝置離線

主機: [d](#) [u.tw](#)
系統名稱: [d](#) [edu.tw](#)
IP: 1
說明:
程度: critical

時間: 2020-10-13 14:55:55

ID: 12675

規則: Device UP/Down LINE Notify

錯誤:

1: sysObjectID = .1.3.6.1.4.1.9.1.2365; sysDescr =
Cisco IOS Software, C2960L Software (C2960L-
UNIVERSALK9-M), Version 15.2(6)E, RELEASE
SOFTWARE (fc4)

Technical Support: [http://www.cisco.com/
techsupport](http://www.cisco.com/techsupport)

Copyright (c) 1986-2017 by Cisco Systems, Inc.
Compiled Sat 05-Aug-17 12:46 by prod_rel_team;
location_id = 4;

下午 3:01



LINE Notify

【LibreNMS】 [恢復]

主機: [d-1](#) [w](#)
系統名稱: [du.tw](#)
IP: 1
說明:

程度: critical

經過: 5m 8s

時間: 2020-10-13 15:01:03

ID: 12676

規則: Device UP/Down LINE Notify

錯誤:

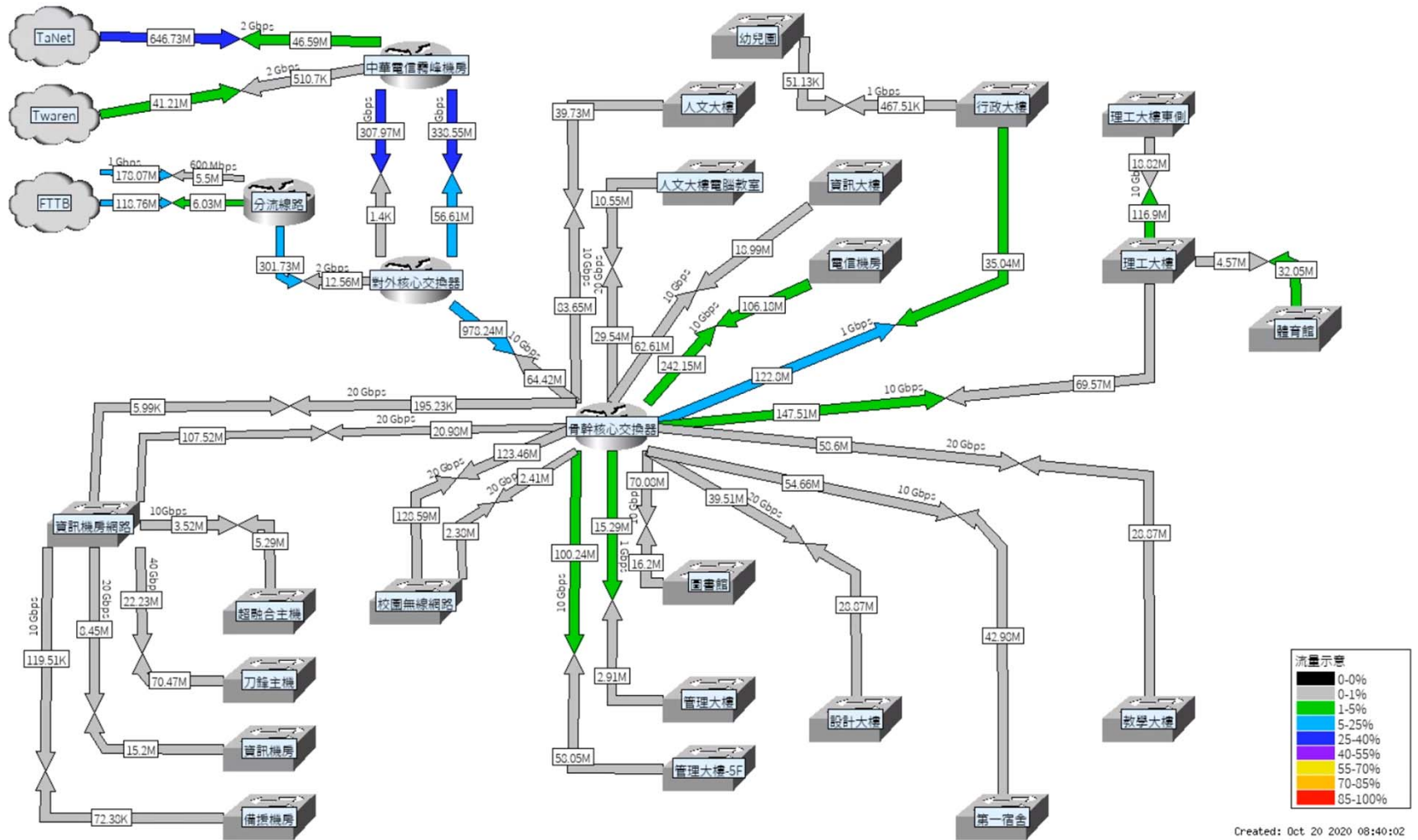
1: sysObjectID = >.1.3.6.1.4.1.9.1.2365;
sysDescr = > Cisco IOS Software, C2960L
Software (C2960L-UNIVERSALK9-M), Version
15.2(6)E, RELEASE SOFTWARE (fc4)

Technical Support: [http://www.cisco.com/
techsupport](http://www.cisco.com/techsupport)

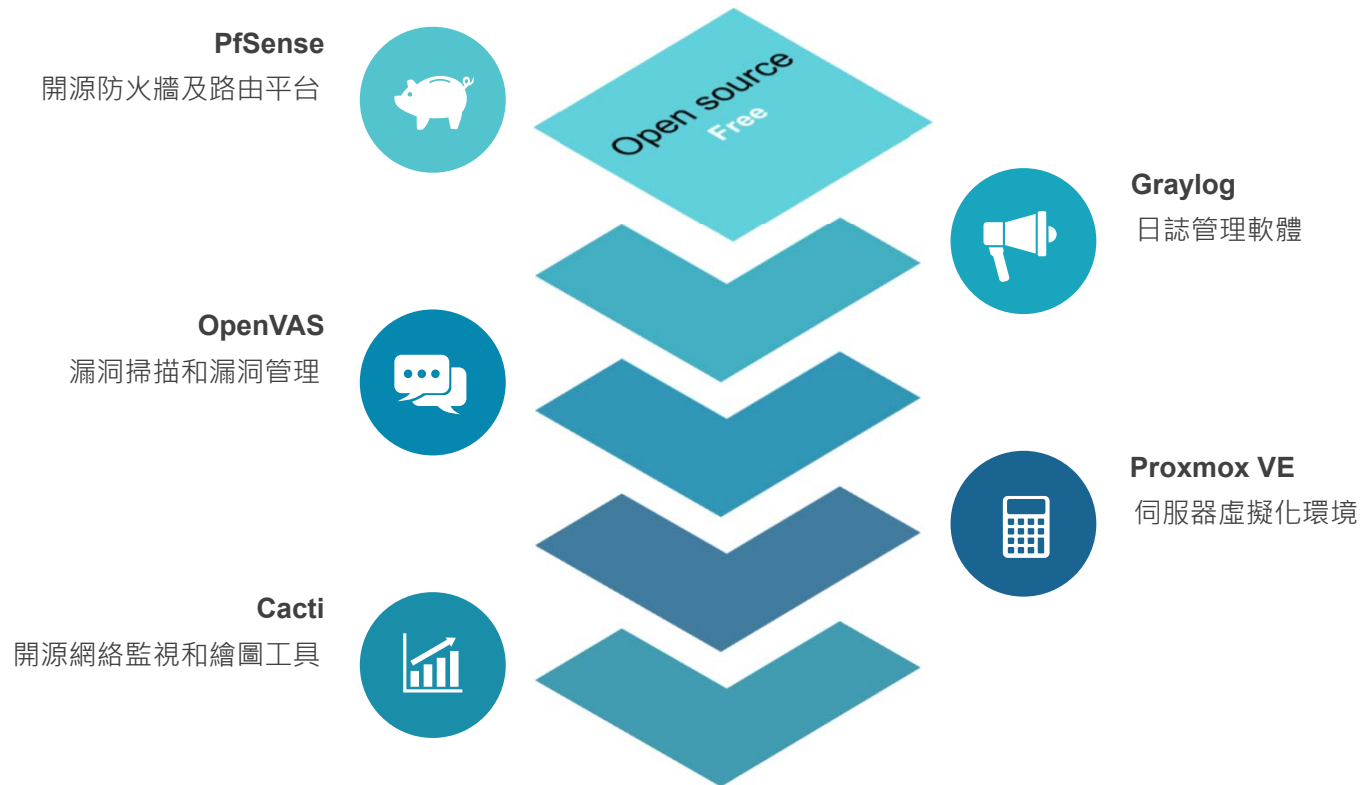
Copyright (c) 1986-2017 by Cisco Systems, Inc.
Compiled Sat 05-Aug-17 12:46 by prod_rel_team;
location_id = > 4;

下午 3:02

LibreNMS



其他免費(開源)方案





THANK YOU



The image features a dark blue background with a grid pattern and faint binary code (0s and 1s) scattered throughout. A prominent white cloud icon is centered in the upper half, with four vertical lines extending downwards from its base. These lines connect to a white graphic that resembles a circuit board or a network diagram, consisting of four horizontal lines extending from the vertical ones, each ending in a small white dot. The text 'THANK YOU' is written in a clean, white, sans-serif font, centered horizontally and positioned between the cloud icon and the circuit graphic.