SYSAGE 緊硬科技 The ICT Solution Provider	<b>行銷服務專線 / 0800-008-669</b> 台北市114内湖路一段516號10樓 Tel / 02-874	<b>www.sysage.com.tw</b> 97-8260 Fax / 02-8797-8261
Citrix	Netscaler User Guide	
(下列文件使用的版本為 NetScaler 10.5)		
內容		
<u>一、初始化</u>		<u>2</u>
二、Load Balance		7
$\Xi$ $\checkmark$ SSL Offloading		
四、Content Switch		
五、High Availability		
六、故障排除		



<b>5</b> <u>5</u> The	名牌通路 加値服務 <b>SAGE 緊頓科技</b> ICT Solution Provider	<b>行銷服務專線 / 0800-008-669</b> 台北市114内湖路一段516號10樓 Tel / 02-874	<b>www.sysage.com.tw</b> 97-8260 Fax / 02-8797-8261
使用 Browse	er 登入到 Netscaler IP		
預設帳密	nsroot/nsroot		
Citrix NetScaler VP	X-Co × +	The last serve the local sector	
	nu/neo	▽ ♂ │ Q. 援募	☆ 自 ♣ ♠ ⊜ ≡
NetSca	ler VPX (1)		NS10.5 55.8.nc Logout CITRIX
Dashboard	Configuration Reporting		Documentation Downloads 🔅
Welcome! Use this wizard for already been con	or initial configuration of your NetScaler virtual applianc figured, a check mark appears within a green circle. An	e. To configure or to change a previously configured setting, click each of t orange circle containing a dash indicates that you have chosen to skip this	he sections below. If a parameter has section.
¢°	NetScaler IP Address IP address at which you access the NetScaler for configur NetScaler IP Address 172.16.18.90	ation, monitoring, and other management tasks. Netmask 255.255.0.0	<b>~</b>
~	Subnet IP Address Specify an IP address for your NetScaler to communicate Subnet IP Address Not configured	with the backend servers.	2
	Host Name, DNS IP Address, and Time Zon         Specify a host name to identify your NetScaler, an IP address         Host Name       DNS IP Address         Not configured       Not configured	e ess for a DNS server to resolve domain names, and the time zone in which your Net Time Zone CoordinatedUniversalTime	tScaler is located.
	Licenses Upload licenses from your local computer or allocate lice There are 0 license file(s) present on this NetScaler.	nses from the Citrix licensing portal.	4
選數字 2. 部 [1] [2] ] 選數字 3. 部 [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	と定 Subnet IP (用來跟後端 onet IP Address* 2 . 168 . 100 . 1 tmask* 35 . 255 . 255 . 0 Done Do It Later Done Do It Later と定 Host Name ,DNS IP,Tir st Name, DNS IP Address, and Time Zo ifly a host name to identify your NetScaler. When you g server if you want to allocate your licenses from the Cit lost Name TestNS INS IP Address 168 . 95 . 1 . 1 + ime Zone* GMT+08:00-CST-Asia/Taipei  Done Do It Later	server 溝通) ne Zone ne enerate the Universal license for NetScaler Gateway, the host name is used trix licensing portal. Specify the time zone in which your NetScaler is located	in the license. Specify the IP address of a 3.



安裝 License File

取得 Host Id, Configuration->System 然後根據此 Id 申請註冊檔

NetScaler VPX (1)			Info NS10.5 55.8.nc	Logout	<b>citrix</b> .
Dashboard Configuration	Reporting	D	ocumentation	Downloads	۵
+ System	NetScaler > System > System Infor	mation		0	0
+ AppExpert					
+ Traffic Management	System Information System Se	ssions			
Optimization	Upgrade Wizard Reboot Stat	istics			
+ Security	System Information				
Show Unlicensed Features	NetScaler IP Address	172.16.18.90			
	Netmask	255.255.0.0			
ntegrate with Citrix Products	Node	Standalone			
-	Time Zone	GMT+08:00-CST-Asia/Taipei			
🛺 XenMobile	System Time	Tue, 31 Mar 2015 09:15:09 CST			
XenApp and XenDesktop	Last Config Changed Time	Tue, 31 Mar 2015 09:13:39 CST			
••••••••	Last Config Saved Time	Tue, 31 Mar 2015 09:05:43 CST			
	Hardware Information				
	Platform	NetScaler Virtual Appliance 450010			
	Manufactured on	9/30/2009			
	СРО	2000 MHZ			
	Host Id	005056a63106			
	Serial no	HE2H81UJ47			
	Encoded serial no	891e0000cb254307ee9a			

# Configuration->Licenses->Click Manage Licenses->Add New License

NetScaler VPX (1)			Info NS10.5 55.8.	nc - Logout CITRIX
Dashboard Configuration	Reporting		Documentation	n Downloads 🄅
— System	NetScaler > System > Licenses			¢ 🛛 🚱 🗧 🖬
Licenses				
Settings	Manage Licenses			
Diagnostics	License type		Model ID	1
High Availability	Load Balancing	×	SSL Offloading	×
NTP Servers	Content Switching	×	Cache Redirection	×
Reports	Global Server Load Balancing	×	GSLB Proximity	×
Profiles	Authentication, Authorization and Auditing	×	NetScaler Gateway	×
+ Authentication	Maximum NetScaler Gateway Users Allowed	×	Maximum ICA Users Allowed	×
+ Auditing	Clustering	×	Web Interface	×
+ SNMP	Integrated Caching	×	Front End Optimization	×
+ Cluster	Rewrite	×	Responder	×
+ Network	HTTP Compression	×	Content Filtering	x
T Web Interface	Application Firewall	×	Cloud Bridge	x
Backup and Restore	Priority Queuing	×	Sure Connect	×
+ AppExpert	Surge Protection	x	DoS Protection	×
+ Traffic Management	AppFlow	×	AppFlow for ICA	×
Ontimization	IPv6 Protocol Translation	×	Dynamic Routing	×
	BGP Routing	x	OSPF Routing	×
+ Security	RIP Routing	×	ISIS Routing	×





Check license 狀態 Configuration->System->Licenses

Dashboard Configuration	Reporting		Documentation	n Downloads 🔅
— System	NetScaler > System > Licenses			¢ 😗 🗖
Licenses				
Settings	Manage Licenses			
Diagnostics	License type	Platinum	Model ID	3000
High Availability	Load Balancing	$\checkmark$	SSL Offloading	$\checkmark$
NTP Servers	Content Switching	$\checkmark$	Cache Redirection	$\checkmark$
Reports	Global Server Load Balancing	$\checkmark$	GSLB Proximity	$\checkmark$
Profiles + User Administration	Authentication, Authorization and Auditing	~	NetScaler Gateway	~
+ Authentication	Maximum NetScaler Gateway Users Allowed	5	Maximum ICA Users Allowed	Unlimited
T Auditing	Clustering	×	Web Interface	<ul> <li>Image: A second s</li></ul>
+ SNMP	Integrated Caching	×	Front End Optimization	×
T AppFlow	Rewrite	×	Responder	×
- Cluster	HTTP Compression	×	Content Filtering	×
+ Network	Application Firewall	<ul> <li>Image: A set of the set of the</li></ul>	Cloud Bridge	<ul> <li>Image: A second s</li></ul>
+ Cloudbridge Connector	Priority Queuing	<ul> <li>Image: A second s</li></ul>	Sure Connect	<ul> <li>Image: A set of the set of the</li></ul>
Packup and Postore	Surge Protection	✓	DoS Protection	<ul> <li>Image: A set of the set of the</li></ul>
	AppFlow	<ul> <li>Image: A second s</li></ul>	AppFlow for ICA	<ul> <li>Image: A set of the set of the</li></ul>
+ AppExpert	IPv6 Protocol Translation	✓	Dynamic Routing	<ul> <li>Image: A set of the set of the</li></ul>
+ Traffic Management	BGP Routing	×	OSPF Routing	<ul> <li>Image: A second s</li></ul>
+ Optimization	RIP Routing	×	ISIS Routing	×
+ Security	Content Accelerator	×	AppQoE	✓
- Security	NetScaler Push	<ul> <li>Image: A set of the set of the</li></ul>	Web Logging	<ul> <li>Image: A set of the set of the</li></ul>
+ NetScaler Gateway	vPath	~	RISE	~

SYSAGE 緊張 The ICT Solution P	<sup>新加值服務</sup> 【 <b>科技</b> 名 rovider 台	<b>前銷服務專線/0</b> 1114内湖路一段510	<b>800-008-669</b> 5號10樓 Tel / 02-879	<b>www.sysage.com.tw</b> 27-8260 Fax / 02-8797-8261
二、Load Balance				
<ul> <li>(一) Network Environment</li> <li>1.ns01 (Netscaler)</li> <li>(1)NSIP: 172.16.18.90/16</li> <li>(2)SNIP: 172.16.18.91</li> <li>(3)Gateway: 172.16.254.254</li> <li>2.server farm</li> <li>(1)server01: 172.16.18.63</li> <li>(2)server02: 172.16.18.64</li> <li>(3)Virtual Server: 172.16.18</li> </ul>	4 8.222 Traffic Mana	aement-→I ord E	Palancing -> Sara	zers 、 图上報2 Add 力口 认 /经过半
(二) 新選 Configuration 分頁 <b>7</b> Server。		gement - Load r	Salancing - Serv	'els',
Dashboard Configuration	Reporting			
+ System	NetScaler > Traf	fic Management > Load B	alancing > Servers	
Traffic Management	Add	dit Delete Ac	tion •	lomain
<ul> <li>Load Balancing</li> <li>Virtual Servers</li> <li>Services</li> <li>Service Groups</li> <li>Monitors</li> <li>Metric Tables</li> <li>Servers</li> <li>Persistency Groups</li> <li>Content Switching</li> </ul>	No items	JLATE	If Address / L	

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			服務專線/0800-008-669	
	The ICT Solution	m Provider 台北市	4内湖路一段516號  0樓  e  / 02-8/	97-8260 Fax / 02-8797-8261
(1)	輸入 Server Name(自	訂)及 IP 位址即可,	點擊下方 Create	
	← Back			
	Create Server			
	Server Name*			
	rdp1			
	● IP Address ○ Dor	nain Name		
	IPAddress*			
	172 . 16 .	18 . 63 🔲 IPv	r6 🕜	
	Traffic Domain			
		► +	/	
	Enable after Creatin	g		
	Comments	^		
		$\sim$		
	Create Close			
(2)	Server 加入完成			
	NetScaler > Traffic Man	agement > Load Balancing	> Servers	
	Add Edit	Delete	•	
	Name	State	IPAddress / Domain	
	▶ rdp1	Enabled	172.16.18.63	
(3)	建立 Service:在 Co	nfiguration 分頁→Tra	affic Management→Load Ba	lancing→ Service 中點擊 Add
	建立 Service。	-	-	
	NetScaler VPX (3	000)		
	Dashboard Configuratio	n Reporting		

System	NetScaler >	Traffic Management > Load B	Balancing >	Services > Services
· AppExpert		1		
· Traffic Management	Services	Auto Detected Services	Internal	Services
- Load Balancing	Add	Edit Delete Sta	tistics A	Action 🔻
Virtual Servers	Name		State	IP Address/Domain Na
Services	No items			
Service Groups				
Monitors				
Metric Tables				
Servers				
Persistency Groups				

Ç	名牌通路 加値服務 <b>SYSAGE</b> 緊碩科技 The ICT Solution Provider 合:	<b>亍銷服務專線 / 0800-008</b> 北市114内湖路一段516號10樓 Tel	<b>3-669 WWV</b> 1 / 02-8797-8260	<b>v.sysage.com.tw</b> Fax / 02-8797-8261
(4)	輸入 Service Name(自訂),選擇已存在 點擊 OK。	E Server,下拉選擇你剛)	加入的 Serve	r,選擇 Protocol。之後
	← Back			
	Load Balancing Service			
	Basic Settings			
	Service Name* rdp1-3389	]		
	O New Server   Existing Server	1		
	Server* rdp1 (172.16.18.63)	]		
	Protocol*	]		
	Port*	]		
	3389			
	OK Cancel			
(5)	進入以下畫面,下拉至底點選 Done		/	^
	Max Bandwidth (kbits)0Monitor Threshold0Max Requests0Max Clients0	Client Idle Time-out 9000 Server Idle Time-out 9000		
	Settings	1	1	×
	Sure Connect     OFF       Surge Protection     OFF       Use Proxy Port     YES       Down State Flush     ENABLED       Access Down     NO	Use Source IP NO Client Keep-Alive NO TCP Buffering NO Client IP DISABLED Header client Ip		
	Monitors			×
	1 Service to Load Balancing Monitor Binding			>
	Done			-
(6)	Service 建立完成			

Dashboard	Configuration	Reporting	
+ System		NetScaler > Traffic Management	t 🗧 Load Balancing 🍃 Virtual Servers
+ AppExpert		Add Edit Dele	ete Enable Disable Statistics Action
<ul> <li>Traffic Manageme</li> </ul>	ent	Name	State Effective State IP Addres
Load Balancing	)	No items	
Virtual Se	rvers	<u></u>	
Service Gr	oups		
Monitors	oops		
· Metric Tab	bles		
Convers			

+ Back

#### Load Balancing Virtual Server

Vame*			
rdp_vip1			
rotocol*			
RDP		~	
P Address Type*			
IP Address		~	
P Address*			
172 . 16 .	18 .	58	IPv6
ort*			
3389			
More			

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			泳 / 0000-00	00-009	<i>ww.</i>	ysaye.com.tw
ine ici soi	ution Provider	台北市114内湖路-	-段516號10樓	Tel / 02-879	7-8260 Fc	ax / 02-8797-8261
(9) 進入以下畫面。	點選 Service 項目下	方位置。				
+ Back						
Load Balancing Virtual Server	Export as a Template					
	capor do a remplate					
Load Balancing Virtual Serve	r					
Basic Settings						
Name rdp_vip1 Protocol RDP		Listen Priority	-			
State DOWN		Range	1			
IP Address 172.16.18.58 Port 3389		Redirection Mode RHI State	IP PASSIVE			
Traffic Domain 0		AppFlow Logging	ENABLED			
Service						
No Load Balancing Virtual Server Se	rvice Binding				>	
OK						
Dashboard Configuration	Reporting Service Binding					
	Service Binding					
	Select Service*					
Load Balancing Virtual Serv	er					
	Binding Details					
	Weight 1	×				
	Bind Close	2				
IF AUGress 172.10.10.06						
(11)	點選要 Bind 在這個	VIP 上的 Ser	vice。點擊	OK °		
Dashboard Configuration			····- •	Documenta	ution Down	
	Canica Diadian A Canica					
← Back	Service binding - Service					
	Service					
	Add Edit					
	Name	State IP Address/Domain	Name Traffic Domain	Port Protocol	Max Clients	
	• Idh1-2203	op 172.10.18.05	0	3309 RUP	0	
	OK Close					

(12) 進入以下畫面。點擊 Bind。

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Dashboard Configuration Reporting Service Binding	
Load Balancing Virtual Server Expor Load Balancing Virtual Server rdp1-3389	> +
Basic Settings More Binding Details	
Name     Itp_spin     Weight       Protocol     RDP     1       State     DOWN     1       IP Address     172.16.18.58       Port     3389       Traffic Domain     0	Close
(13) 進入以下畫面,此時 Service 項目 在此操作,點選 Add Binding 即可	會顯示已綁上 1 個 Service。(之後若要綁上其他 Service,也是) 點擊 OK。
Load Balancing Virtual Server Basic Settings	
Namerdp_vip1ProtocolRDPStateDOWNIP Address172.16.18.58Port3389Traffic Domain0	Listen Priority-Listen Policy Expression-Range1Redirection ModeIPRHI StatePASSIVEAppFlow LoggingENABLED
Service	
Load Balancing Virtual Server Service Binding OK	
(14) 進入以下畫面,下拉至底點選 Dom Name rdp_vip1 Protocol RDP State DOWN IP Address 172.16.18.58 Port 3389 Traffic Domain 0	Listen Priority       -         Listen Policy Expression       -         Range       1         Redirection Mode       IP         RHI State       PASSIVE         AppFlow Logging       ENABLED
Service 1 Load Balancing Virtual Server Service Binding	>
Traffic Settings	/ ×
Health Threshold     0     Priority Queuing     Ol       Client Idle Time-out     9000     Sure Connect     Ol       Minimum Autoscale Members     0     Down State Flush     EN       Maximum Autoscale Members     0     ICMP Virtual Server Response     PASSIVE	FF Layer 2 Parameters OFF FF NABLED
Done (15) VIP 建立完成 (Client 可透過此 IP	使用服務)

<u>5 575</u>	AGE	<sup>SHEME</sup>	<sup>加値服務</sup>	行針	消服務	專線 / 0800-0	)08-669	www.s	ysage.com	.tw
NetScaler > Traffic Mana	gement >	Load Balancing	VICIER	台北市 rs	5114内湖	路一段516號10樓	₿ Tel / 02-87	'97-8260 Fa	x / 02-8797-8261	
Add Edit	Delete	Enable	Disable Stat	tistics	Action	•				
Name	State	Effective State	IP Address	Port	Protocol	Method	Persistence	% Health		
▶ rdp_vip1	●Up	<b>⊚</b> Up	172.16.18.58	3389	RDP	LEASTCONNECTION	NONE	100.00% 1 UP/C		

完成

I

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<b>SSL Offloadi</b>	ng					
牧用 SSL Offloading 指	令					
enable ns feature ssl						
<b></b>	iguration->Trafi	fic Management	->(右鍵)SSL Enable	e Feature		
Dashboard Configuration	Reporting			Documentation	Downloads	¢
+ System	NetScaler > Traffic Managen	nent > SSL			¢ (8)	
+ AppExpert - Traffic Management + Load Balancing + Content Switching 1 + Cache Redirection 1 + DNS + GSLB 1 + SSL 1 Enable Feature	Getting Started Server Certificate Wizard Client Certificate Wizard Intermediate-CA Certificate Wi Root-CA Certificate Wizard CRL Management SSL Keys Create RSA Key	zard	SSL Certificates Create Certificate Signin Certificate Create and Install a Serve Tools Create Diffie-Hellman (I	ig Request (CSR) er Test Certificate DH) key		
+ Optimization + Security + NetScaler Gateway Show Unlicensed Features	Create DSA Key		Import PKCS#12 Export PKCS#12 Manage Certificates / Ke Start SSL certificate, key Start SSL certificate, key OpenSSL interface	eys / CSRs file synchronization for F file synchronization for C	IA Juster	
Integrate with Citrix Products	Policy Manager SSL Policy Manager		Settings Change advanced SSL so	ettings		
ArnMobile     XenApp and XenDesktop	Configuration Summa 1 Certificate-key pair 94 Cipher Groups	ary				



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	The ICT Solu	tion Pr	ovider

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(2).產生憑證要求(CSR)

Configuration->Traffic Management->SSL SSL Certificates->Create Certificate Signing Request(CSR) 名稱自取.csr

# Key Filename 選剛剛創的 private key

Create Certificate Signing Re	quest (CSR)
Request File Name*	
testcsr.csr	Browse
Key Filename*	
test.key	Browse V
Key Format	
PEIVI Passphrase (For Encrypted Key)	
Distinguished Name Fields	
Country*	
TAIWAN, PROVINCE OF CHINA	
State or Province*	
Taiwan	
Organization Name*	
sysage	
City	
Taipei	
Email Address	
davidshao@sysage.com.tw	0
Organization Unit	
NSBU	
Common Name	
demo123.com.tw	
Attribute Fields	
Challenge Password	
Company Name	

填好資料後按 Create

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(3).透過第三方核發憑證或是自己簽發
採用自己簽發的方式
Configuration->Traffic Management->SSL SSL Certificates->Certificate
Certificate File Name = 自取.cert
Certificate Type = Server
Certificate Request File Name = 選自創的 testcsr csr
CA Certicate File Name = $\frac{3}{3}$ ns-root cert
NetScaler VPX (3000)
Dashboard Configuration Reporting Documentation Downloads
← Back
Certificate
Certificate File Name*
test123.cert
Certificate Format
● PEM <sup>®</sup> DER
Certificate Type*
Server  Configurate File Manual
Certificate Reduest File Name
Key Format
Validity Period (Number of Days)
365
CA Certificate File Name"
/nsconfig/ssl/ns-root.cert
CA Certificate File format
CA Key File Name – Jet Is-root.key
CA Serial File Number = 速 ns-root.srl
CA Certificate File format
CA Key File Name*
/nsconfig/ssl/ns-root.key Browse V
CA Key File Format
● PEM <sup>©</sup> DER
PEM Passphrase (For Encrypted CA Key)
CA Serial File Number*
/nsconfig/ssl/ns-root.srl
Create Close
按 Create



# (4).安裝憑證

Configuration->Traffic Management->SSL->Certificates 選 Install

Dashboard Config	guration	Reporting	Documentation	Downloads
+ System + AppExpert		NetScaler > Traffic Management > SSL > SSL Certificates       Install     Update       Delete     Action		¢
Traffic Management     Load Balancing		Name  Name	Days to Expire 5794	Status Valid
Content Switching     Cache Redirection     DNS				
+ GSLB — SSL	•			
Certificates				

# 名稱自取.pair

Certficate File Name 選剛剛創的 test123.cert Key File Name 選一開始創的 key

Dashboard Configur	tion Reporting	Documentation Do
Back		
Install Certificate		
Certificate-Key Pair Name*		
Test123.pair		
Certificate and Key files are stored	n the folder /nsconfig/ssl/ on appliance.	
Certificate File Name*		
test123.cert	Browse 🔻 🕇	
Key File Name		
test.key	Browse 🔻 🛨	
Certificate Format		
● PEM ◎ DER		
Password		
	0	
Certificate Bundle		
Notify When Expires		
30		
Install		

# 點 Install

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接下來要把創好的憑證 先在 services 加一台 we Fraffic Management->Lo	.pair 綁在 vip 上 b server port 80 pad Balancing->Se	(如何加 serve ervices	er 請參考三 Loa	ad Balance)		
+ AppExpert - Traffic Management - Load Balancing Virtual Servers Services Services Services Monitors Metric Tables Servers - John Services 後到 Traffi	Services Auto Detecte Add Edit D Name > web02	Internal Servi elete Statistics Actio State IP Address/Domai Up 172.16.18.64 Load Balancin	ces n v n Name Port Protocol 80 HTTP g->Virtual Serv	Max Clients Max Red 0 ers Add 創い	quests Cache Type 0 SERVER	Search 🔻
Dashboard Configuration	Reporting			Document	tation Downlo	Dads 💭
Load Balancing Virtual Server Basic Settings Name* Webvip Protocol* SSL IP Address Type* IP Address				Н	elp	>
IP Address* 172 . 16 . 18 . 43 Port* 443 ► More OK Cancel	] [] IPv6 []					
Bind 上一個 Load Balar Load Balancing Virtual Server Basic Settings	ncing Virtual serve	er service Bind	ing ->OK	н	elp	>
NamewebvipProtocolSSLStateDownIP Address172.16.18.43Port443Traffic Domain0		Listen Priority Listen Policy Expression Range Redirection Mode RHI State AppFlow Logging	- 1 IP PASSIVE ENABLED			
Services and Service Groups  1 Load Balancing Virtual Server Servi No Load Balancing Virtual Server Servi OK	ice Binding rviceGroup Binding			>		



# 點 No server Certificate

Certificates	
No Server Certificate	>
No CA Certificate	>
ОК	

# Click to select

U DACK	Server Certificate Binding	×
Load Balancing Virtual Server   B	Select Server Certificate*	
oad Balancing Virtual Server	Click to select > +	
	Server Certificate for SNI	
Basic Settings	Bind Close	

### 選剛剛創的 test123.pair ->OK

	Install Update Delete Action -		Search 🔻
_oad Balancing Virtual Server	Name	Days to Expire	Status
	⊘ ► ns-server-certificate	5794	Valid
		364	Valid
	OK Close		8
D' 1			

#### Bind

Server Certificate Binding	×
Select Server Certificate*	
Test123.pair > +	
Server Certificate for SNI	
Bind Close	
	Server Certificate Binding Select Server Certificate* Test123.pair Server Certificate for SNI Bind Close



Load Balancing Virtual Server Export as a Template

Basic Settings					И	lelp	>
Name webvip Protocol SSL		Listen Priority Listen Policy Expression	-		A	dvanced	
IP Address 172.16.18.43		Redirection Mode	IP			+ Policies	
Port <b>443</b>		RHI State	PASSIVE				
Traffic Domain 0		AppFlow Logging	ENABLED			+ SSL Ciphers	
Services and Service Grou	ps				(	+ SSL Policies	
1 Load Balancing Virtual Serve	er Service Binding				> (	+ SSL Profile	
No Load Balancing Virtual Ser	ver ServiceGroup Binding				> (	+ SSL Parameters	
Certificates					(	+ Method	
1 Server Certificate					> (	+ Persistence	
No CA Certificate					> (	+ Protection	
ECC Curve					×	+ Profiles	
4 ECC Curves					>	+ Push	
Done						-	
e						1) I A A A A	
ystem	NetScaler > Traffic Manageme	ent $>$ Load Balancing $>$ V	irtual Servers			¢	
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raffic Management	Name State Effective	re State IP Address F	ort Protocol	Method	Persistence	% Health	Traffic Dom
Load Balancing	Name State Effectiv	172161942	442 661		NONE	100.00% 1 UD/0 DOWN	
Virtual Convers	🕨 webvip 💿 Up	1/2.10.18.43	445 55L	LEASTCONNECTION	NOINE	100.00% 1 0P/0 DOWN	

完成

	名牌通路 加值服務			
<b>SY</b> SAGE	€ 聚碩科技	行銷服務專線 / 0800-008-669	www.sysage	e.com.tw
The ICT Sol	lution Provider	台北市114内湖路一段516號10樓 Tel / 02-87	97-8260 Fax / 02-8	797-8261
四、Content Sw	vitching			
測試環境				
Web1 172.16.18.63				
Web2 172.16.18.64				
請牛建立 LB vserver	加下層			
Webly vin 172 16 19	2 2 1			
webiv vip 172.16.16	0.231			
Web2v vip 1/2.16.18	8.232			
+ System	NetScaler > Traffic Manageme	ent > Load Balancing > Virtual Servers		¢ 🛛 🚱 🗧 🔚
+ AppExpert	Add Edit D	elete Enable Disable Statistics Action 🔻		Search 🔻
- Traffic Management	Name State Effective	State IP Address Port Protocol Method	Persistence % Health	Traffic Doma
Load Balancing	▶ web1v 💿 Up 💿 Up	172.16.18.231 80 HTTP LEASTCONNECTION	NONE 100.00% 1 UF	P/0 DOWN
Virtual Servers Services	▶ web2v 💿 Up 💿 Up	172.16.18.232 80 HTTP LEASTCONNECTION	NONE 100.00% 1 UF	P/0 DOWN
+ System	NetScaler > Traffic Manageme	ent > Content Switching > Content Switching Virtual Servers		¢   Ø   🖬
Traffic Management	Add Edit D	elete Statistics Action -		Search 🔻
+ Load Balancing	Name Create a new Content	Switching Virtual Server ate IP Address Pr	ort Protocol	Traffic Domain
- Content Switching	No items			
Virtual Servers				
Policy Labels				
Actions				
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前八 Inallie、IF -> OF				
+ Back				
Content Switching Virtual S	Server			
Basic Settings			Help	>
Name*				
CCVIP				
Protocol*				
НТТР	•			
IP Address Type*	•			
IP Address*				
172 . 16 . 18 . 23	13 IPv6 🕐			
Port* 80				
▶ More				
OK Cancel				



# 新增 policy

#### Configuration->Traffic Management->Content Switching->Policies Click Add

⊢ System	NetScaler > Traffic Manageme	ent > Content Switchin	g > Content Switching Pol	icies	¢ ()	
+ AppExpert	Add Edit D	Action	•		Sear	ch 🔻
Traffic Management	Name	Action Log Action		Expression	Domain	Hite
+ Load Balancing	No items	Logradon	Unit	Expression	Domain	1110
<ul> <li>Content Switching</li> </ul>						
Virtual Servers						
Policy Labels						
Policies						
Actions						
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小人 Name 夜話 Exp						
Back						
Create Content Switching Policy						
Jame*						
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	on and then type '.' to get the next set of	options				
Press Control+Space to start the expression	21 B					
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Press Control+Space to start the expression				Evaluate		
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Switch to Classic Syntax

<b>2</b> SY.SAGE	<b>疑碩科技</b>	行銷服務專	線 / 0800-00	8-669 <i>w</i> i	ww.sysag	e.com.tw
The ICT Soluti	on Provider	台北市114内湖路-	一段516號10樓 Te	el / 02-8797-82	60 Fax / 02-1	8797-8261
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iffic Management	Vame	Sta	te IP Address	Port	Protocol	Traffic Domain
Load Balancing	CVIP	• ا	Jp 172.16.18.233	80	НТТР	0
Virtual Servers						
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← Back						
ontent Switching Virtual Server						
Basic Settings					Help	>
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Protocol HTTP		Listen Priority Listen Policy Expression	-		Advanced	
State UP IP Address 172.16.18.233		Range Traffic Domain	1 0		+ Policies	:
Port 80		RHI State AppFlow Logging	PASSIVE true		+ Protect	ion
					+ Profiles	;
CS Policy Binding					+ Push	
No Content Switching Policy Bound				>	(+) Authen	tication
No Default Load Balancing Virtual Server	Bound			/		
Done					(+) Traffic	Settings
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Basic Settings       Name     CCVIP       Protocol     HTTP       State     UP       IP Address     172.16.18.233       Port     80	More Binding Details Priority* 100 Goto Expression*					
Basic Settings       Name     CCVIP       Protocol     HTTP       State     UP       IP Address     172.16.18.233       Port     80	More Binding Details Priority* 100 Goto Expression* END					
Basic Settings Name CCVIP Protocol HTTP State UP IP Address 172.16.18.233 Port 80 CS Policy Bipding	More Binding Details Priority* 100 Goto Expression* END Invoke LabelType*					
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設定 Default LB Virtual Server

Content Switching Virtual Servers Policy Labels

← Back							
Content Switching Virtual Serv	/er						
Basic Settings				/	Help		ł
Name CCVIP Protocol HTTP	Listen Priority Listen Policy Exp	- ression -			Advanced		
State UP IP Address <b>172.16.18.233</b>	Range Traffic Domain	1 O DASSIV			+ Policie	5	
Port	AppFlow Loggin Comments	g true	-		+ Protec	tion	
CS Policy Binding							
1 Content Switching Policy				>	+ Push		
No Default Load Balancing Virtual Ser	ver Bound			>	+ Auther	ntication	
選擇另外一個 web2v ->	> Create->Done Configure Content Switching Virtual Server to Lo	ad Balancing Virt	aal Server Binding	-11			
	Configure Content Switching Virtual Serve	er to Load Balan	cing Virtual Server Bin	ding			
Pasia Sattings	Default Load Balancing Virtual Server Name						
	Hits						
	Create						
設定完成							
+ System	NetScaler > Traffic Management > Content Switch	ing > Content S	witching Virtual Servers			¢   😗   🖡	
+ AppExpert	Add Edit Delete Statistics	Action				Search 🔻	
- Traffic Management	Name	State	IP Address	Port	Protocol	Traffic Domain	
+ Load Balancing	CCVIP	<b>⊖</b> Up	172.16.18.233	80	нттр		0



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# 五、High Availability

IP

(1)NS01

-NSIP: 172.16.18.60 (預先當 primary) (2)NS02 (Stay secondary) -NSIP:172.16.18.90

步驟如下

先讓 NS02 Stay Secondary

先登入第二台 172.16.18.90

# Configuration->System->High Availability 選自己 click Edit

SetScaler VPX (30)	0)	Info NS10.5 55.8.nc	Logout CITRIX
Dashboard Configuration	Reporting	Documentation	Downloads 🔅
— System	NetScaler > System > High Availability > Nodes		¢   😧   🗖
Licenses			
Settings	Nodes Route Monitors Failover Interface Set		
Diagnostics			
High Availability	Add Edit Delete Statistics Action		
NTP Servers	ID IP Addres Modify the selected HA Node Master State Node State	INC Sync	hronization State
Reports	0 172.16.18.90 TestNS Primary 🕞 Up		
· Profiles			
+ User Administration			

### 選 Stay Secondary->OK

← Back	3
Configure HA Node	
ID	
172 . 16 . 18 . 90	
High Availability Status*	
ENABLED (Actively Participate in H 🔽 🕜	
STAY PRIMARY STAY SECONDARY (Remain in Listen Mode) Primary	
DISABLED (Do not participate in HA) STAY SECONDARY (Remain in Listen Mode) Primary node will propagate contriguation to the secondary	
Fail-safe Mode	
Maintain one primary node even when both nodes are unhealthy	
Sync VLAN	
Internel	



之後登入第一台 172.16.18.60

Configuration->System->High Availability->Add

	💦 NetScal	er VPX (3000	)					Info NS10.5 55.8.n	c - Logout	CİTRIX'
	Dashboard	Configuration	Reporting		_		ſ	Oocumentation	Downloads	۵
	System     Licenses     Settings     Diagnostics     Hinh Availability		NetScaler >	System > High /	Availability > Nodes				Φ	0
			Nodes	Route Monitors	Failover Interface	: Set				
			Add	Edit De	lete Statistics	Action 👻				
	NTP Servers		ID IP	Address	Host Name	Master State	Node State	INC S	ynchronization State	
	Reports		0 172	2.16.18.60	NSo2	Primary	🔵 Up			

### 輸入第二台 IP 位址&帳密 > Create

NetScaler VPX (3000)	Info NS10.5 55.8.nc 🔻	Logout	CITRIX.
Dashboard Configuration Reporting	Documentation	Downloads	۵
← Back			0
Create HA Node			
Remote Node IP Address*          172       16       18       90       IPv6         Image: Configure remote system to participate High Availability setup       Image: Configure remote system to participate High Availability setup         Image: Turn Off HA Monitor interface/channels that are down       Image: Turn on INC(Independent Network Configuration) mode on self node			
Remote System Login Credential			
User Name nsroot			
Password			
Create			

# 顯示同步成功

💸 NetScaler VPX (3000)				Info NS10.5 55.8.n	c.▼ Logout <b>CiTRIX</b>
Dashboard Configuration	Reporting			Documentation	Downloads 🔅
— System	NetScaler > System > High Availability	Nodes			¢   0
·· Licenses ·· Settings	Nodes Route Monitors F				
Diagnostics High Availability	Add Edit Delete	Statistics Action -			
NTP Servers	ID IP Address Host Nam	e Master State	Node State	INC	Synchronization State
Reports	0 172.16.18.60 NSo2	Primary	🔵 Up	DISABLED	ENABLED
Profiles     tuber Administration	1 172.16.18.90	Secondary	Staysecondary	DISABLED	SUCCESS



# 再把第二台 Stay Secondary 調整成 ENABLED (Actively Participate in HA)

← Back	•
Configure HA Node	
ID O IP Address	
172 . 16 . 18 . 90	
High Availability Status* STAY SECONDARY (Remain in Lis	
Primary node will propagate configuration to the Secondary	
Fail-safe Mode	
Maintain one primary node even when both nodes are unhealthy	
Sync VLAN	



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(1) 使用瀏覽器登入]	https://www.citrix.c	om/account				
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選擇]	NetScaler ADC*			
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	AppDNA*		select a region	
	Citrix Content Delivery Analytics	requires	Customer Sup	
	CloudPlatform*	scription	Please select	
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