Alteon Application Switch GUI 매뉴얼





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• 기본 명령어



구분	명령어	설명				
1 Apply 저	Diff	현재까지 입력된 설정 확인				
1. Apply 신	Revert	현재까지 입력된 설정 모두 취소				
2 Analy 5	Diff Flash	Apply 되었으나 Save 되지 않은 설정을 확인				
2. Арріу –	Revert Apply	Apply 된 설정을 모두 취소				
3. Save 후	Save	추가로 설정한 설정을 취소하는 명령어는 따로 없으므로 변경하고자 하는 것이 있다면 다시 설정 해야 함				





Diff & Diff Flash

🐮 radware			1 Dif	f 탭 또는 ② Diff Chee	k Bo	x 클릭시 🥵 🕄 Use	r: admin 🔸
Alteon 192.168.1.1	Apply Required Welcom	Save Required Revert S	③ Sh ☞ 결:	ow 아이콘을 클릭하여 과 창을 볼 수 있음 Dif	Peno F Flas	ding Configuration h는 Check Box를 사용	
Type: 5224XL (Standalone) Mgmt IP: 192.168.1.1 HA Status: None Version: 31.0.8.0 MAC: 00:03:B2:A8:47:00	Alteon Setup To Create Or e	dit the Alteon initial configuration, Click	the following lin	k:	3	Short Check Short Save Short Save	Close
Configuration Monitoring	Startup Configur	ation				/c/port 1 pvid 10 /c/l2/vlan 1	^
Overview	Quick Application	1 Setup				learn ena def 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 2	4 25 26
 Welcome Dashboard 	System Time:	13:01:55	Last Apply:	13:00:20 Mon Apr 22, 2019		/c/l2/vlan 10 ena name "VLAN 10" learn ena	
Service Status View	Last Save:	13:00:25 Mon Apr 22, 2019	sysName:		- 1	der I /c/l2/stg 1/clear /c/l2/stg 1/add 1 10	
	" Version:	31.0.8.0	Host/IP:	192.168.1.1		/c/l3/if 1 ena ipver v4	
	MAC Address:	00:03:b2:a8:47:00	Last Boot:	12:49:21 Mon Apr 22, 2019 (hard reset f	- 1	addr 192.168.1.2	
	Switch Uptime:	0 days, 0 hours, 12 minutes and 33 seco	Form Factor:	Standalone			
	— Licenses an	d Capacity			-1		
	Syslog Message	s Note: The filter on the alert table can be set	t in its maximized	= view.			55
System	Time and Date		Severity	м	essage		
Network	Apr 22 13:01:48		NOTICE		ngmt: Failed	d login attempt via WBM from host 192.168.1.254.	~
Application Delivery	Apr 22 13:00:42		NOTICE		ngmt: admir	n(admin) login from host 192.168.1.254 via WBM	~
Security	<		1410		inquire. new c		>
Copyright © Radware Ltd. 2017 All Right	s Reserved	1 of 1				Displaying Ro	ws 1 - 27 of 27
		ODE		Dd		B	

Apply Required & Revert & Revert Apply

radware or				了 13:56:25 𝕄 User: adr	min 👻
Alteon 192.168.1.1	edit the Alteon initial configuration, Click	sync 1	상단 메뉴 Apply Required 클릭 시 Apply 적용 Apply Required는 변경 사항이 있을 시 생성된디 변경 사항이 없다면 Apply를 표시한다. 상단메뉴 Revert 클릭 후 Revert와 Revert Apply 탭을 클릭하여 적용	Diff Dump	?
Welcome Dashboard System Time: Service Status View Last Save: Version: MAC Address: Switch Uptime Licenses	13:01:55 13:00:25 Mon Apr 22, 2019 31.0.8.0 00:03:b2:a8:47:00 0 days, 0 hours, 12 minutes and 33 seco and Capacity	Last Apply: sysName: Host/IP: Last Boot: Form Factor:	13:00:20 Mon Apr 22, 2019 192.168.1.1 12:49:21 Mon Apr 22, 2019 (hard reset f Standalone		
Syslog Messa	es Note: The filter on the alert table can be se	et in its maximized vi	- view.		5.7 2.9
System Time and Date		Severity	Message		
Network Apr 22 13:01: Apr 22 13:00:	12	NOTICE	mgmt: Failed login attempt via WBM from host 192.168.1.	254. BM	^
Application Delivery Apr 22 13:00:	26	INFO	mant: new configuration saved		~
Security					>
Copyright © Radware Ltd. 2017 All Rights Reserved	e 1 of 1 🕨 🕨			Displaying Rows 1	- 27 of 27





MGMT ACL 설정

- 장비에 관리목적으로 접근 가능한 대역 설정



📲 radware		Allowed Protocols per Network			٩
Alteon 192.168.1.1	Save Required Revert Sync	IPv4 Address Search	Mask Search	Protocol Search	
Type: S224XL (Standalone) Mgmt IP: 192.168.1.1 H4 Status: None Version: 31.0.8.0 MAC: 00:03:82:A8:47:00	IPv4 Address: IP Address Mask: Mask	Submit 버	튼 클릭 후 결과 화	면이다.	
Configuration Monitoring	- Protocols	석용을 하려	려면 Apply Require	ed 탭을 클릭한다.	
Overview System	ALL SSH Telnet HTTPS SNMP Report	14 9 Page 1 of 1		i	Displaying Rows 1 - 1 of 1
Management Access Management Ports Management Protocols Management Traffic Routing Access Control Con	③ IP 주소와 Mask 값을 입력 한 후 Protocols 를 체크				
Configuration Management	④ Submit 버튼 또는 Cancel 버튼을 클릭하여 설정을 하거나 취소한다.				
Application Delivery Security		4			
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User ID 생성

- 계정 생성,삭제, 패스워드 설정 등



Submit 버튼 클릭 후 결과 화면이다. 적용을 하려면 상단의 Apply Required 탭을 클릭한다.





User Role Class

- Alteon 사용자 계정의 권한을 설정

Role	설명
Administrator	슈퍼 사용자 관리자는 사용자 및 관리자 암호 둘 다를 변경하는 능력을 포함하 여, 모든 메뉴, 정보, 및 구성 명령에 완전한 접근을 가지고 있습니다.
Web AppSecurity Admin	웹 보안 관리자는 웹 애플리케이션 보안 기능, AppWall, 및 인증 게이트웨이를 구성할 수 있습니다. 이것은 보안 웹 애플리케이션 및 모든 보안 정책의 구성을 포함합니다.
Certificate Administrator	인증서 관리자는 인증서 저장소 테이블 (구성 > 애플리케이션 딜리버리 > SSL > 인증서 저장소)에 완전히 접근할 수 있으며, ssldump 캡처 보기, 가져오 기, 내보내기, 생성, 업데이트 및 복호화할 수 있습니다.
L4 Administrator	제4계층 관리자는 공유된 인터넷 서비로 이어지는 라인에서 트래픽을 구성 및 관리합니다. SLB 관리자 기능에 더해, 제4계층 관리자는 필터 또는 대역폭 관리 의 구성을 포함하여 SLB 메뉴에서 모든 매개변수를 구성할 수 있습니다. vADC 관리자만 이용가능합니다.
SLB Administrator	SLB 관리자는 content Server, 기타 인터넷 서비스 및 <mark>그 로드를</mark> 구성하고 관리 합니다. SLB 운영자 기능에 더해, SLB 관리자는 필터 또 <mark>는</mark> 대역 <mark>폭</mark> 관리의 구성 을 제외하고 SLB 메뉴에서 매개변수를 구성할 수 있습니다. vADC 관리자만 이 용가능합니다.
Operator	<mark>운영자는 Alteon의</mark> 모든 기능을 관리합니다. SLB 운영자 기능에 더해, 운영자는 포트나 전체 Alteon을 재설정할 수 있습니다.
Web App Security Owner	Web 보안 소유자는 그에 관련된 보안 웹 애플리케이션에 대한 보안 정책을 관 리할 수 있습니다.
L4 Operator	제4계층 운영자는 공유된 인터넷 서비로 이어지는 라인에서 트래픽을 관리합 니다. 이 사용자는 현재 SLB 운영자와 같이 동일한 접근 수준을 가지고 있습니 다. 이 수준은 공유된 인터넷 서비스로 이어지는 라인에서 트래픽을 관리하는 운영자들을 위한 작업 명령에 대한 접근을 제공하도록 미래의 사용에 예약됩니 다. vADC 관리자만 이용가능합니다.
SLB Operator	SLB 운영자는 컨텐트 서버, 기타 인터넷 서비스 및 그 로드를 관리합니다. 모든 Alteon 정보 및 통계를 보는 것에 더해, SLB 운영자는 SLB 운영 메뉴를 사용하 는 서버를 활성화하거나 비활성화할 수 있습니다. vADC 관리자만 이용가능합 니다.
SLB Viewer	SLB 뷰어는 Alteon 정보, 서버 로드 밸런싱(SLB) 통계 및 정보를 볼 수 있지만 Alteon에 어떤 구성 변경도 할 수 없습니다.
Web App Security Viewer	Web 보안 열람자는 그에 관련된 보안 웹 애플리케이션에 대한 보안 정책을 볼 수 있습니다.
User	사용자는 Alteon 관리에 대해 어떤 직접적 책임도 없습니다. 사용자(기본값이 아님)는 상태 및 통계 정보를 볼 수 있고, 그 사용자(관리 사용자에 의해 정의되 는)와 관련된 리얼 서버에 대해서만 작업 상태를 변경할 수 있습니다. 사용자는 어떤 구성 변경도 할 수 없습니다.





NTP 서버 설정

- NTP (시간 관리) 서버를 지정

: radware		🔁 14:15:05 🖉 User: admin 👻
Alteon 192.168.1.1	Apply Save Required Revert Sync	Diff Dump
Туре: 5224XL (Standalone) Mgmt IP: 192.163.1.1 HA Status: None Version: 31.0.8.0 MAC: 00:03:82;A8:47:00	Time and Date Date: 04/22/2019 MM/dd/yyyy Time: 13:24:18	① 좌측 System 메뉴에서 Time and Date 메뉴 클릭
Configuration Monitoring Overview	Time Zone: asia-Korea-South	→ Time Zone 'asia-Korea-South' 전택
System Management Access Users	Enable NTP Primary IP Version: IPv4 IPv5	▲ NTP 서버들 왈성와들 위해 Enable NTP Check
Logning Cockerts Dis Chert	Primary IP Address: 0.0.0.0	→ NTP 메인 서버의 IP address 주소 입력
Licenses Version Management	Secondary IP Address: 0.0.0.0	→ NTP 보조 서버의 IP address 주소 입력
Connguration Mahagement Subscription Management Memory Management APM Server Device Performance Monitoring	Synchronization Interval: 1440 Min Timezone Offset from GMT: -08:00 nours	 → NTP 서버와의 싱크 재계산 인터벌을 입력 → Time zone을 입력한다. 대한민국 GMT 기준 +09:00 이다.
Network Application Delivery Security	Click ③ Submit 버튼을 클릭하여 설전 적용을 하려면 Apply 탭을 클	정을 완료한다. :릭한다
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Idle Timeout설정 - CLI 접속 세션의 지속시간을 설정한다.

radware		了 14:30:15
Alteon 192.168.1.1	save Reguired R vert Sync	Diff Dump
Type: S224XL (Standalone) Mgmt IP: 192,168,1.1 Idle Timeout: Idle Timeout: HA Status: None Version: 31,0.8.0 MAC: 00:03182;A8:47:00	20 Min. Default : 20분 ay: English (최대 10080분 자	[원)
Configuration Monitoring		
1 System		
Management Ports		
Management Protocols		
Management Traffic Routing		
Access Control		
G Users		
SNMP		
Logging and Alerts		
DNS Client		
Time and Date		
Licenses		
Version Management		
Configuration Management		
Network Cl:		
Application Delivery	(③ Submit 버튼을 클릭하여 설정을 완료한다.	
Security	저요은 하려며 Apply Poquired 태은 크리하다	
Copyright © Radware Ltd. 2017 All Rights Reserved	HOE YHE Apply Required de e Hell.	





Banner 설정

📲 radware		C 21:22:37	<u> U</u> se	er: openbase	e 🔻
Alteon 192.168.100.15	Apply Save Required Revert Sync Management Protocols*		Diff	Ump	?
Type: S224XL (Standalone) Mgmt IP: 192.168.100.15 HA Status: None Version: 31.0.8.0 MAC: 00:03:82:A8:4A:00 Configuration Configuration Monitoring Configuration Management Protocols Management Traffic Routing Access Control Users SIMP Logging and Alerts Network	SSH CLI FILL Login Banner: Waring!! Teinet Prompt: O Standard O Hostname CLI Secure XML Configura				
Application Delivery	= Syslog Messages Note: The filter on the alert table can be set in its maximized view.				К.) К 3
 1 좌측 System메뉴 택한다. 2 CLI를 선택한다. 3 Login Banner를 	〒 > Management Access > Management protocols 를 선 최대 79자 설정할 수 있다.				





Real Server 설정

- 실제 Load balancing하는 Real Server를 지정



Status	Real Server ID	Description	Server Type	IP Version		Server IP Address	Server Mode	
Search		Search	Search		•	Search	Search	•
Enabled	101		Local	IPv4		192.168.1.101	Physical	

Close 버튼 클릭 후 결과 화면이다. 적용을 하려면 Apply Required 탭을 클릭한다.





Group 설정

- Load balancing을 위한 Service Group을 생성 할 수 있다.







Group 설정

- Load balancing을 위한 Service Group을 생성 할 수 있다.

Server Groups	Add New Server Group* *
Group Type:	Local O WAN Link
IP Version:	IPv4 ⑤ 로드 밸런싱 Metric 방식과 Grouping 된 Real Server 들과의 Health check Type을 선택한다.
Real Servers*	S Group Settings
Group Settings	Health Check: tcp
Group Status Thresho	
Backup	Content:
IDS	Enable/Disable Real per Group
Advanced	Enable Disable Connections Shutdown Sessions Shutdown
	Status ID
	Search • Search
	There is no data to display.
Click r	
Submit Cancel	⑤ Submit 미근들 골락아여 걸엉들 신도안다. 적용을 하려면 Apply Required 탭을 클릭한다.

✓ SLB Metric

- Real Server의 부하분산 방식을 지정한다.

구분	설명
Leastconn	Least connection 즉 가장 부하가 적은 서버에 세션을 할당한다
Svcleast	Least connection 보완 알고리즘, 각 서비스(Group) 별 가장 부하가 적은 서버 에 세션을 할당한다.
Roundrobin	세션이 들어오는 순서에 의해 순차적으로 서버에 세션을 할당한다.
Hash	Persistency 즉, 세션의 영속성이 필수인 서비스에서 사용한다.





Virt Server 설정

- L4 에 부여되는 Virtual Server IP는 해당 서비스를 위해 DNS에 등록한 IP와 동일하다.

🐮 radware						0	15:36:23 L Use	er: admin 🔻
Alteon 192.168.1.1	Apply Save Required F Virtual Services	Sync					Diff D	iump ?
Type: 5224XL (Standalone) Mgmt IP: 192.168.1.1 HA Status: None Version: 31.0.8.0 MAC: 00:03:82:A8:47:00	Virtual Servers + Clicktk Service Creatic	20	has a common	- server des rorre			(measure)	٩
	Status Virtual Server ID Search Search	Description	IP Address Search	Source Network Search	Search	Availability Persistence Search	WAN Link Search	-
Configuration Monitoring Overview System Network According Configuration Query Service Setup Configuration Query Service Setup Configuration Query Service Setup Configuration Configuration Query Service Setup Configuration Server Resources Server Resources Server Resources Server Resources Server Resources Server Resources Server Resources Server Resources DNS Authority Collobal Traffic Redirection Collobal Traffic Redirection Collobal Traffic Redirection Collobal Traffic Redirection Collobal Traffic Redirection Port Processing Security	There is no data to display. (1) 좌측 Applicati (2) +아이콘을 클 Virtual Services of Selected Virtual Serv	ion Delivery 메- 로릭하여 Virtual : Protocol Action	뉴 > Virtu Server를 [:]	al Service 메뉴 추가한다.	다 클릭 ed Rules of Selected Virt Rule Name data to display.	ual Service Content Class Action	There is no data t Group ID	o display.
Copyright © Radware Ltd. 2017 All Rights R Fill Virtual Services Add	New Virtual Server			Virtual Ser	ver 화성하를	위해 Enable Ch	neck	
Virtual Server ID: 100 Description: IP Version: IPv4				Virtual Ser	ver의 ID값을	입력한다.		
IP Address: [192.168.1 Source Network:	.100	/ +	;	 Virtual Ser 	ver의 IP add	ress를 입력한다		
Virtual Services		>	+아이콘	그을 클릭하여	Virtual Servio	e를 추가한다.		٩
Global Server Load B	Application	Service Pol	rt		Action		Target	
Advanced	Search There is no data to display.	 Search 			Search	•	Search	





Virt Server 설정

- L4 에 부여되는 Virtual Server IP는 해당 서비스를 위해 DNS에 등록한 IP와 동일하다.

-									
	Apply Required Sa	ave Require	d Revert	Sync				Diff	Dump
	Virtual Servi	ices A	dd New Virtual Server	Add Virtual Service* ×					
<u>ر</u>	Virtual Server ID:	100							
S	Application:	HTTP	_	•	→ Virtual Se	erver에서 사용할 Service를 선택한다			
	Service Port:	80	_		→ Virtual Se	erver에서 사용할 Service Port를 입력	한다.		
	Protocol:	TCP							
	Action:	Group	○ Redirect ○ Disca	rd					
	Group ID:	10		• • •	→ Virtual Se	rver와 매핑할 Group을 선택한다.			
			Properties						
	Properties		Description:						
	Persistency		Real Server Port:	Valid range: 0 65534					
	Proxy IP			-					
	Content Based Rules	S	Delayed Binding:						
	HTTP		Delayed binding:	C Linaure & Disaure O Purce Pro	~7				
	TCP Optimization								
		ick							
e	Submit Cance		⑥ Subm	nit 버튼을 클릭하여 설	[정을 완료한다.				

tatus	Virtual Server ID		Description	IP Address	Source Network	Domain Name	Availability Persist	ence	WAN Link
earch	 Search 	1	Search	Search	Search		Search	•	Search
Enabled	100			192,168,1,100			Disable		
tual Services	1 of 1	Server			Content Bas	ed Rules of Selected Vir	ual Service	Dis	splaying Rows 1 -
t Page	1 of 1	k H H			Content Bas	ed Rules of Selected Vir	tual Service	Des	splaying Rows 1 -
Page Intual Services Intual Server ID 100	1 of 1 of Selected Virtual Application HTTP	Server Service Port 80	Protocol A TCP	Action Target Group 10	Content Bas	ed Rules of Selected Vir Rule Name data to display.	ual Service Content Class	Dis	splaying Rows 1 - Group ID





VSR 설정

- Virtual Server Router, Virtual Server IP를 이중화 한다.



•••• radwara					7. 16:00:47	in 💌
Alteon 192.168.1.1	Apply Required Save Required High Availability	ed Revert	CQ Sync			?
Type: 5224 (Standalone) Mgmt IP: 192.168.1.1 HA Status: Active Version: 31.0.8.0 MAC: 00:03:B2:D0:88:00	High Availability Mode: Hotstandby:	Legacy VR Disable	RP -]	Legacy VRRP설정이 활성화 되면 해당 결과 창 이 나온다. Submit버튼은 비활성화 이므로 생략한다.	^
Configuration Monitoring	Enable Unicast Advertisements:	Disable	÷)		
Overview	Holdoff Time:	0		Sec.		
System Network	Advertise BGP on HA Backup Pe	er: Disable	•]		
Dhysical Ports		Tracking Increme	nt			
Layer 2	Tracking Increment	Physical Port:	2			
Proxy IP	Advanced	IP Interface:	2			
High Availability Bandwidth Management	Stateful Failover	SLB Port:	2			
		Real Server:	2			
		Virtual Routers:	2			
		HSRP:	10			
		HSRP with VLAN:	10			~
Application Delivery	Submit					
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VSR 설정

- Virtual Server Router, Virtual Server IP를 이중화 한다.









✓ Tracking

- VR의 Priority 값을 부가적인 상태에 대해 조절할 수 있는 옵션.

구분	설명
Physical Ports	동일 VLAN을 기준으로 물리적인 포트의 상태에 따라 Priority 값이 조정된다. Link의 Up상태에 대해 Priority 값 2씩 증가
IP Interface	Interface 의 상태에 따라 Priority 값이 조정된다. Interface의 Up상태에 대해 Priority 값 2씩 증가
SLB Port	Client, Server Processing이 적용 된 물리적 포트 기준으로 Priority 값이 조정된다. SLB Processing이 적용된 포트에 대해 Priority 값 2씩 증가
Real Server	VSR에 등록된 Real Server의 상태에 따라 Priority 값이 조정된다. Real Server의 Up 상태에 대해 Priority 값 2씩 증가
Virtual Router	VR의 Mastership에 따라 Priority 값이 조정된다. VR의 Master 상태에 대해 Priority 값 2씩 증가





Port Processing 설정

- Alteon 포트에 L4 Processing (Client/Server Processing, Proxy) 을 설정한다.

Price and a series of the ser	Client Server Search Server Enabled Enabled Enabled Enabled	Proxy (Client NAT) Proxy (Client NAT) Search Enabled	Return to Sender (RTS) Disabled Disabled	L3-Filter Search V Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	IDSLB Search • Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Hot Standby Search Disabled Disab	Filter/Outbound LLB Search Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Inter-Switch Search Search Sealch Disabled	Filters
e: 5224XL (Standalone) ht IP: 192.106.1.1 ibit: 212.106.1.1 ibit: 212.1.1 ibit: 212	Client Server Search Server Enabled Enabled Enabled Enabled	Proxy (Client NAT) Search Enabled	Return to Sender (RTS) v Search Disabled	L3-Filter Search • Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	IDSLB Search Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Hot Standby Search Search Search Search Search Disabled	Filter/Outbound LLB Search Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Starch Search Search Search Seabled Disabled	Filters
Rathas: Active and a second se	Client Server Search Search Enabled Enabled	Proxy (Client NAT) Search Enabled	Return to Sender (RTS) Disabled Disabled	L3-Filter Search • Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	IDSLB Search • Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Hot Standby Search Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Filter/Outbound LLB Search Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Inter-Switch Search Search Disabled	Filters
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curity Syslog Messa	Enabled Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	
-1	Page 1 of 1	ert table can be set in its ma	iximized view.					Displaying	Rows 1 - 26
yright © Radware Ltd. 2017 All Rights Reserved									
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Alteon 192.168.1.1	Save Required Re	Sync						D	iff Dum
: 5224XL (Standalone) t IP: 192.168.1.1 tatus: Active on: 31.0.8.0	Concepting Continues		Client / Server P	rocessin	g, Prox	‹y는 Defau	ult enable로	설정 되어	있다.

Configuration Monitoring	Client Server	구분	설명					
Overview	Proxy (Client NAT) Return to Sender (RTS)							
System Network Application Delivery Ouick Service Setup	L3-Filter Hot Standby Filter/Outbound LLB Inter-Switch	Client Processing	Client Request 트래픽이 인입되는 포트에 활성화 하여 Virtual Server IP 와 Virtual Service Port 값을 Real Server IP 및 Real Port로 매핑 시켜준다. (Default : Enable)					
Virtual Services Filters Server Resources Ssl. Traffic Match Criteria annicitation Services		Server Processing	Real server의 Response 트래픽이 인입되는 포트에 활성화하 여 Real Server IP 및 Real Port값을 Virtual Server IP 와 Virtual Service Port에 다시 매핑 시켜준다. (Default : Enable)					
DNS Authority LinkProof Global Traffic Redirection AppShape++ Scripts	Click	Proxy (Source Nat)	Source IP를 Nat 하는 기능이다. 기본적으로 Proxy IP를 설 정해야 적용이 가능하다. (Default : Enable)					
♥ Gobal Traffic Redirection AppShape++ Scripts ♥ Port Processing Security Security Security Click (Source Nat) Source Nation Source Nation								





Allow, Deny Filter 설정

- 최대 2048개의 Traffic Filter를 지원. 각 Filter는 IP Address 및 Protocol 사항에 따라 패킷을 허용, 거부, Nat, Redirection을 수행하도록 구성할 수 있다.



📲 radware			👩 16:14:37 🔬 User: admin
Alteon 192.168.1.1	Apply Required Save Require	ed Revert Sync	Diff Dump
Type: 5224XL (Standalone) Mgmt IP: 192.168.1.1 HA Status: Active Version: 31.0.8.0 MAC: 00:03:B2:A8:47:00 Configuration Monitoring Overview System	Finable Filter Filter ID: Valid Description: Action: Allow Deny	Fill range: 1 2048	 ▶ Filter ID를 입력한다. Filter 아이디의 값 (Integer)이 작을 수록 Filter Processing 적용된다. ▶ 적용할 Filter Action을 선택한다.
Network Application Delivery Quick Service Setup Virtual Services Filters Server Resources SSL Triffic Match Criteria Application Services	Action Settings Action Settings Layer 7 Match Condit HTTP Advanced Matching AppShape++	ect Und LLB Protocol: Any Application: None Match Type: Standard IP Version: © IPv4 () IPv6	· 부가적으로 추가할 사항이 있다면 설정한다
 DNS Authority LinkProof Global Traffic Redirection AppShape++ Scripts Port Processing 	Dynamic NAT SSL TCP Optimization	Source Address Type	Destination
Security Copyright © Radware Ltd. 2017 All Rights	Submit Cancel Syslog Messages Note: The fil s Reserved	ter on the alert table can be set in its maximized view.	





Allow, Deny Filter 설정

- 최대 2048개의 Traffic Filter를 지원. 각 Filter는 IP Address 및 Protocol 사항에 따라 패킷을 허용, 거부, Nat, Redirection을 수행하도록 구성할 수 있다.

Apply Filters Add New Filters Filton	w Revet Sync Fill	EX) Allow Filter 설정
Filter ID: 5 Description: VRR Action: Allo		 Filter ID '5' 설정 'VRRP'로 Description 설정 Action을 Allow로 설정하여 해당 조건의 트래픽을 허용한다. Default : Allow
Match Settings Action Settings Layer 7 Match Condit HTTP Advanced Matching	Match Bettings VLAN: Any	 ✓ VLAN 'Any'로 설정하여 모든 VLAN 허용. Default : Any ✓ Protocol 'Any'로 설정하여 모든 Protocol 허용. Default : Any ✓ Filter와 관련된 응용프로그램 유형을 지정. /cfg/slb/filt/adv/dbind forceproxy로 설정된 Filter에만 해당. Default : None
AppShape++ Dynamic NAT SbL TCP Optimization	IP Version:	Destination Match Type을 Invert로 설정 시 Filter가 조건에 충족하면 작동하지 않고, 조건에 충족하지 않을 시 동작한다. Default : Standard
Bandwidth Management Security IDS Load Balancing Session Management *	1P Address/Network 0.0.0.0 Mask/Prefix 0.0.0.0 Physical Parts:	2840.00 255.0.0 255.0.0 Source IP Address / Mask 및 Destination IP Address / Mask를 지정해준다. Default :0.0.0.0 (Any조건)
	Port Search 2 3 4 5 6 6 Tetal Rows: 2 5 Total Rows: 1	★ 생성한 Filter를 적용할 Physical Port를 Add한다. 예시로 1번 포트를 선택했다.

	Advanced Matching	Click	
Match Settings	Match traffic to device IPs:	None	
Action Settings	MAC		
Layer 7 Match Condit	PIAC		
Clield	Source MAC:	MAC Address	
	Destination MAC	MAC Address	
Advanced Matching	Destination PACI		

필터가 대상 트래픽을 장치 IP 주소 와 일치시키는지 여부를 지정. 'None'으로 선택.

Submit 버튼을 클릭하여 설정을 완료한다. 적용을 하려면 Apply Required 탭을 클릭한다.



Allow, Deny Filter 설정

- 최대 2048개의 Traffic Filter를 지원. 각 Filter는 IP Address 및 Protocol 사항에 따라 패킷을 허용, 거부, Nat, Redirection을 수행하도록 구성할 수 있다.

Filters A Enable Filter Fi	^{dd New Filter* ×} ter 활성화	Fill		EX) Deny Filter 설정
Filter ID:	2048		→ Filter ID '2048' 설정	
Description:	Deny_Any		→ 'Deny Any'로 Descr	iption 설정
Action:	Deny	•	→ Action을 Deny로 실] 물정하여 해당 조건의 트래픽을 거부한다. Default : Allow
	Match Settin	igs		
Match Settings	VLAN:	Any	VIAN 'A	nv'로 섴정하여 모든 VIAN 허용 Default · Anv
Action Settings	Brotocoli	Any	Drotocol	Any/2 47300 DE Protocol 38 Default : Any
Layer 7 Match Cond	lit	·	PIOLOCOI	Ally 도 일정하여 또는 Protocol 여용, Delault , Ally
Advanced Matching	Application:	None	Applicat	tion을 None으로 지성. Default : None
AppShape++	Match Type:	Standard	Standard	토 시성. Default : Standard
SSL	IP Version:	®IPv4 ©IPv6		
TCP Optimization		Source	Destination	
Session Manageme	nt Address Type	⊛ Address ○ Network Class	⊛ Address ○ Network Class	、 Source IP Address / Mask 및 Destination IP
	IR Addross (N	atwork 0.0.0.0	0.0.0.0	Address / Mask를 Any/Any 조건으로 지정히
	TP Address/10	EWOIK		여 모든 Traffic을 거부한다.
	Mask/Prefix			Default :0.0.0.0 (Any소건)
	Physical Por	ts:		
		Q		
	Port	2	_	
	Search 1	5		생성한 Filter를 적용할 Physical Port를 Add한다
	3 4			예시로 2.5번 포트를 선택했다.
	6 7	• • •		
	<u>Total Rows: 2</u>	4 Total Rows: 2		
				-
	hmit 버튼윽·	클릭하여 설정을 와료?	하다	
Submit Car				

Port에 Filter Add 설정

- Alteon 포트에 Filter Processing을 위한 Filter를 추가한다.

위 ④항목처럼 Port에 Filter생성과 동시에 Add할 수 있지만, Port Processing 메뉴에선 미리 정의 되어 있는 Filter를 Add 할 수 있다. PPT 18장 참조

Port Processing Edit Port Processing* ×	Available: Q Selected:
Port: 14	Filter ID Description Filter ID Description
Filter/Outbound LLB	Search Search Click There is no data to display.
© Client Server 를 활성화한다.	2048 2 미리 정의된 Filter <
🗹 Proxy (Client NAT) 🛛 Return to Sender (RTS)	
Hot Standby (1) Filter/Outbound LLB	Total Rows: 1 Total Rows: 0

Service Pip 설정

- Virtual Service에 Source Nat를 위한 Proxy IP를 생성한다.

:: radware		C 16:40:04 L User: admin
Alteon 192.168.1.1	Apply Save Required Revert Sync Virtual Services Edit Virtual Service * *	Diff Dump
Yersion: PPT: 3장의 ④ HA Stata: PPT: 3장의 ④ MAC: ① 좌측 Applic ② Proxy IP 탭 Configuration: Metric field Overview	항목에처 생성된 Virtual Service에서 Pip를 생성한다. ation Delivery 메뉴 > Virtual Services 메뉴> Virtual Services of Selected Virtual Se 클릮 Port: Mode 에서 Address/Subnet을 선택한다.	irver 더블 클릭
System Network	Group ID:	
	Properties Client NAT Mode:	
Cettings	Persistency Click Disable Engress	
G Filters	Proxy IP Address/Subnet Network Class	
Server Resources SSL	TCP Optimization	
Traffic Match Criteria Application Services	SSL	
DNS Authority	AppShape++	
Global Traffic Redirection	Session Management	
 AppShape++ Scripts Port Processing 	Bandwidth Management	
Security	Submit Cancel	
Copyright © Radware Ltd. 2017 All Rights	Reserved =	

🐮 radware						O 16:41:34	L User: adm	iin 👻
Alteon 192.168.1.1	Apply Save Requir	ed Revert S	ync Virtual Service* ×			Dif	f Dump	?
Type: 5224XL (Standalone) Mgmt IP: 192.168.1.1 HA Status: Active Version: 31.0.8.0 MAC: 00:03:B2:A8:47:00	Virtual Server ID: 100 Application: HTTP		•					^
Configuration Monitoring	Service Port: 80							
Overview	Protocol: TCP		•					
System Network	Action: Group	○ Redirect ○ Discard						
Application Delivery	Group ID: 10		• / +					
Quick Service Setup	Properties	Client NAT Mode:	Address/Subnet •					
Filters	Persistency	Client NAT IPv4 Address:	192.168.1.200		ce Nat할 IP Address를	입력		
SSL Traffic Match Criteria Application Services	Content Based Rules	Mask:	255.255.255	> Subn	et Mask 값은 32 bit로	입력		
DNS Authority LinkProof	НТТР	Client NAT IPv6 Address:	0:0:0:0:0:0:0					
Global Traffic Redirection	TCPOptimitation	Prefix:	128					
 AppShape++ Scripts Port Processing 	SSL	Client NAT Persistency:	Disable					~
Security	submit Car Sub	mit 버튼을 클릭	릭하여 설정을 완료한	다.				
Copyright © Radware Ltd. 2017 All Rights	Reserved 적용을	<u>-</u> 하려면 Apply	y Required 탭을 클릭	한다.				

• 상태 정보 확인

Image: Section of the sectin the sectin the secting of the secting of the secti			
Alleon 192.169.11 Versier 224.02 (Rodered) Versier 244.02 (R	: radware		🕤 09:35:06 🗘 User: admin ↔
Setter	Alteon 192.168.1.1	Apply Save Regulared Revert Sync	
Construint System Date: 1// 1// 2029 Overview List Apply: 1// 1// 2029 List Apply: 1// 1// 2029 Distance Dis	Type: 5224XL (Standalone) Mgmt IP: 192.168.1.1 HA Status: Active Version: 31.0.8.0 MAC: 00:03:82:A8:47:00	Switch Name: System Time: 07:41:01	5 System Memory: Free: 12499024 사용 가능한 Memory 값
Overview Last Apple: 14:50:01 Mm, Apr 22, 2019 System Last Save: 14:50:00 Mm, Apr 22, 2019 C Guadity Last Save: 14:50:00 Mm, Apr 22, 2019 C U and Memory Statistics Last Save: 12:49:21 Mm, Apr 22, 2019 (hand reset) Satistich Updime: 12:49:21 Mm, Apr 22, 2019 (hand reset) Mainterance System Hardware Michoard Hardware 00:03:32:23:647:00 Serial Number: 3120:1676 Maintecard Hardware No: 1/48:001 Haintecard Hardware No: 1/48:001 Ethernet Board Hardware No: Not Available Network The and Jardware No: Application Delivery Application Delivery Application Delivery Application Delivery Security Mot Available	Configuration Monitoring	System Date: 04/24/2019	Total: 23625164 - 전체 Memory 값
Ceneral Information Last Boot: 12-49:21 Mon Apr 22, 2019 (hard reset) Switch Uptime: 1 day, 19 hours, 54 minutes and 14 seco Alteon 은 OS 특성상 Config 완료 후, save 하면 해당 config 필요한 Usdavidy Switch Uptime: 1 day, 19 hours, 54 minutes and 14 seco 그리므로 보통 남아있는 용량(free)이 생각보다 적게 표기된다 Alteon 은 OS 특성상 Config 완료 후, save 하면 해당 config 필요한 미모리를 미리 할당 하는 방식을 사용한다. 그리므로 보통 남아있는 용량(free)이 생각보다 적게 표기된다 Maintenance System Hardware 00:03:02:08:47:00 실제로 고객사에서 서비스 중 free 용량이 급격하게 줄어드는 경우 Maintenance YARXON-MB Hainboard Hardware No: YARXON-MB Mainboard Hardware No: YARXON-MB Hainboard Hardware No: Network Metwork Time and Date Severity Message Application Delivey Security Message Mott Security Message NOTICE mgmt: admini/damin) login from host 192.165.1.254 via WBM Security	Overview System	Last Apply: 14:50:01 Mon Apr 22, 2019 Last Save: 14:50:05 Mon Apr 22, 2019	
Seitch Uptime: 1 ay, 19 hours, 54 minutes and 14 seco 그러므로 보통 남아있는 용량(free)이 생각보다 적게 표기된다 Address: 00:03:b2:a8:47:00 실제로 고객사에서 서비스 중 free 용량이 급격하게 줄어드는 경우 National Handware No: 120:1676 Hainboard Hardware No: 140:04:05 Hainboard Hardware No: 120:1676 Hainboard Hardware No: 120:0576 Hainboard Hardware No: 120:0576 Hainboard Hardware No: 120:0576 Hainboard Hardware No: 10:04:04:05:01:02:07:07:07:07:07:07:07:07:07:07:07:07:07:	General Information CPU and Memory Statistics Capacity	Last Boot: 12:49:21 Mon Apr 22, 2019 (hard reset f	Alteon은 OS 특성상 Config 완료 후, save 하면 해당 config 필요한 메모리를 미리 할당 하는 방식을 사용한다.
IMAC Address: 00103102:48147:00 Serial Number: 31201576 Hainboard Hardware No: 1201576 Hainboard Hardware No: VARKON-HB Hainboard Hardware No: VARKON-HB Hainboard Hardware No: VARKON-HB Hainboard Hardware No: Network Application Delivery Severity Application Delivery Application Delivery Security Motion 2	 Locked Users Maintenance 	Switch Uptime: 1 day, 19 hours, 54 minutes and 14 second System Hardware	그러므로 보통 남아있는 용량(free)이 생각보다 적게 표기된다
Serial Number: 31201676 Mainboard Hardware No: VARKON-HB Mainboard Hardware No: VARKON-HB Mainboard Hardware Ro: C.06 Ethernet Board Hardware Ro: Not work Application Delivery Severity Application Delivery Severity Security Message Motion Control Contrecontrol Control Control Contrecontrol Con		MAC Address: 00:03:b2:a8:47:00	■ 실제로 고객사에서 서비스 중 free 용량이 급격하게 줄어드는 경우
Mainboard Hardware Rev: C.06 Ethernet Board Hardware No: Not Available Syslog Messages Note: The filter on the alert table can be set in its maximized view. Signification can be set in its maximized view. Network Time and Date Severity Application Delivery Apr 24 07:40:25 NOTICE Security Message Vertex Security		Serial Number: 31201676 Mainboard Hardware No: YARKON-MB	┃ 서비스 사용량이 급격히 증가 or 공격, loop 과 같은 현상 발생으로 메모리 사용량이 증가하는 현상일 가망성이 크다
Ethernet Board Hardware No: Not Available Syslog Messages Note: The filter on the alert table can be set in Rs maximized view. Security Network Time and Date Severity Message Application Delivery Application Month 2 NotTICE mgmt: admin(admin) login from host 192.168.1.254 via WBM Security Message Displaying Rows 1 - 50 of 28+		Mainboard Hardware Rev: C.06	
Systog Messages Note: The filter on the alert table can be set in its maximized view. Systog Messages Note: The filter on the alert table can be set in its maximized view. Security Message Application Delivery Application Delivery Message Message Security Message Message Message		Ethernet Board Hardware No: Not Available	
Application Delivery Displaying pows 1 - 50 of 28% Displaying pows 1 - 50 of 2	Network	Syslog Messages Note: The filter on the alert table can be set in its maxim	nized view.
Pupinetion centery Pupinetion Incide Inginetion August 100 - 102 / 102	Application Delivery	Time and Date	Severity Message
Copyright © Radware Ltd. 2017 All Rights Reserved	Security Copyright © Radware Ltd. 2017 All Rights	s Reserved	norrec mynn, wannigeannin jogan nom nos 152,105,12,37 via vien P

• MP, SP 상태 확인

	Management Processor(MP)
구분	내용
1	Configuration Manager
2	All Switch Management Including SNMP, WebUI, Telnet, SSH, etc
3	Switch Ping Response
4	STP (Spanning Tree Protocol)
5	Routing Protocols Such as RIP1, RIP2, OSPF, BGP
6	VRRP
7	Real Server Health Checking
8	Statistics Collection from SPs
	MP 사용률이 높게 나타나는 경우
• Loop '	인 경우 100% 표시됨
• Virtual 높게 표	Service가 많은 경우 Health Check 빈도수로 인하여 표시 됨

	Switch Processor(SP)
구분	내용
1	Port에서 Packet을 수신
2	Port에서 Packet을 송신
3	L2 bridging
4	VLAN, Trunk Management
5	VLAN Tag Insertion by H/W
6	L3 Forwarding
7	L4-7 Processing
8	Session Table Management
9	Bandwidth Management
10	Statistics Reporting to MP
	SP 사용률이 높게 나타나는 경우

• SLB, FLB 트래픽이 과도하여 Session 생성과 삭제가 빈번하 게 이루어 질 때

• Config Dump, tsdmp 정보를 표시할 때 높게 표시됨

FAN, TEMP, PSU 상태 정보

:: radware					○ 16:52:34	r: admir	a •
Alteon 192.168.1.1	Apply Save	∱ ↓ Revert	Q Sync		Diff Di	Imp	?
Type: 5224XL (Standalone) Mgmt IP: 192.168.1.1 HA Status: Active Version: 31.0.8.0 MAC 00.02.01 MB-01.00	MAC Address: Serial Number:	00:03:b2:a8:47:00 31201676					^
Configuration Monitoring	Mainboard Hardware No:	YARKON-MB					
overviewClick	Mainboard Hardware Rev:	C.06			① 좌측 System 메뉴에서 General Information 메뉴 클릭		
General Information CPU and Memory Statistics	Ethernet Board Hardware No: Ethernet Board Hardware Rev:	Not Available			② Sensor의 온도 상태를 나타냄		
Capacity	Temperature Sensors:	OK			③ 현재 Power Supply의 상태 확인		
 Maintenance 	Hard Disk:	320	G	5B	· One Power Supply Failed		
	Used Disk Space:	42	c	5B	· Both Power Supplies OK		
3	Power Supply:	Both Power Supplies	ОК		④ Fan의 상태를 나타냄		
4	Fan Status:	ОК					
	SSL Chip:	SSL Chip Status: Ac	ive; SSL Chip Count				
Network	HSM State:	Not Available					~
Application Delivery	Syslog Messages Note: The filte	er on the alert table can b	e set in its maximized	view.			53
Security Copyright © Radware Ltd. 2017 All Rights I	Reserved	of 4 🕨 🔰			Displaying Rov	/s 1 - 50	ð of 186
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License 정보확인

🐮 radware		C 17:00:43 L User: admin •
Alteon 192.168.1.1	Apply Save Revert Sync	Diff Dump
Type: 29240; (Standalone) Ha Status: 292, 158, 11 Ha Status: 10, 80, 00 Jone 10, 80, 00 Concord Concord Concord Status: Concord Status: Configuration Management Configuration Management Subscription Management Configuration Management	Ac Address: 00:03:b2:288:47:00 License String: Elitense Ucensed Features ass-stlb-cookle-0gRHRM40 Capacity Utilization Throughput: Last Installed License 18Gbps-RJA206d SSL: ass-sel-5000-ez00wkbc Compression: ass-sel-5000-ez00wkbc APM: Default APM Extension: Default	 Configuration 메뉴에서 System -> Licenses 메뉴 클릭 Last Installed License 목록을 클릭하면 등록된 라이선 스를 확인할 수 있음 신규 라이선스 등록이 필요 시에 라이선스를 추가할 수 있음
Application Delivery	Syslog Messages Note: The filter on the alert table can be set in its maximized view.	53 53
Security	It t Page 1 of 4 > >	Displaying Rows 1 - 50 of 188
Copyright © Radware Ltd. 2017 All Righ	ts Reserved	

Port 상태

Normal 12.101.11 Image: 1000 million for the formation of the formationo	🐮 radware	j										(€ 16:10:18	S User: admin	•
Term State Analoging Protect Name Value State Application State Application State Application State Application State	Alteon 192.168.1.1)	Apply Port Setti	Save Required Rev	rert Sync								Diff	Dump	?
Nume 18.8.8 Number Analysis Post Use Part Tame VAM Taging PUT Special	Type: 5224XL (Stand Mgmt IP: 192.168.1.1 HA Status: Active		<u></u>											٩	
Surr Surd Surd <th< th=""><th>Version: 31.0.8.0 MAC: 00:03:B2:A8:</th><th>47:00</th><th>Status</th><th>Availability</th><th>Port ID</th><th>Port Type</th><th>IP Forwarding</th><th>Port Name</th><th>VLAN Tagging</th><th>PVID</th><th>Spanning Tree</th><th>Speed</th><th>Duplex</th><th></th><th></th></th<>	Version: 31.0.8.0 MAC: 00:03:B2:A8:	47:00	Status	Availability	Port ID	Port Type	IP Forwarding	Port Name	VLAN Tagging	PVID	Spanning Tree	Speed	Duplex		
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System Sector Opportunities				1 of 1									Dicolavino Ros	wr. 1 - 26 of 26	
Systep Messages Note: The filter on the alert table can be set in its maximized view. Note: Severity Message Time and Date Severity Message Message Apr 23 14:13:15 NOTICE mgmt: admin(admin) login from host 192.165.1254 via WBM Application Delivery Apr 23 14:10:43 NOTICE optimit in link up on management port			and a sugar										Displaying test	01 200120	
Time and Date Sevenity Message Apr 23 14:13:15 NOTICE mgmt: admin(admin) login from host 192.168.1254 via WBM Application Delivery Apr 23 14:10:43 NOTICE system: link up on management port Application Delivery dur 23 14:34.33 NOTICE system: link up on management port			Syslog Messages I	Note: The filter on the aler	t table can be set in its	maximized view.		-							52
Apr 23 1413/15 NOTCE mpt: admin(admin) login from host 192.168.1.254 via WEM Application Delivery App 23 1410/43 NOTCE system: link up on management port Application Delivery 4x2 33 147-33 WABHING* system: link up on management port			Time and Date				Severity				Messane				
Apr 23 14:10-43 NOTCE system: link up on management port Application Delivery Apr 21 13:47:43 WARNING system: link up on management port			Apr 23 14:13:15				NOTICE				mgmt: admin(admin) login fro	m host 192.168.1.254 via	a WBM		
Application Delivery Apr 23 13:47:41 WaBNING and Company Manipulation Standing and Company Manipulation Stan			Apr 23 14:10:43				NOTICE				system: link up on manageme	ent port			^
	Application Delivery		Apr 23 13:47:43				WARNING				appsvc: Warning: SSL Offload	is performed in software	only because a QA	⊺ image is inst	allec
Scority K Dava 1 of C M Revealed State	Security		Id d Page 1	of 6	A 1								Dirolavia	a Power 1 - 50	of 256

Configuration 메뉴에서 Network -> Physical Ports -> Port Settings 메뉴 클릭
 Port 상태를 확인할 수 있다.

	Port 상태확인
구분	내용
Status	포트의 현재 상태를 나타냄
Availability	Link의 상태(Up & Down, 사용안함)
Port ID	물리적 Port Number를 나타냄
Port Type	물리적 연결 타입 : Cooper, SFP, SFP+
IP Forwarding	IP 포워딩상태를 나타냄
Port name	Port Description (최대 문자수 : 63)
VLAN Tagging	Vlan Tagging 활성화 비활성화를 나타냄
PVID	Port VLAN Identifier(1-4090), 기본값 : 1
Spanning Tree	Spanning Tree Protocol 활성화 비활성화를 나타냄
Speed	포트속도 : Any, 100M, 1000M(1G), 10000M(10G)
Duplex	포트의 통신방식 Full Duplex : 데이터 송수신을 동시에 할 수 있는 방식 Half Duplex : 데이터 송수신을 동시에 할 수 없는 방식 Auto or Any : 인접 장비 Mode에 따라 데이터 송수신 Mode를 자동으로 선택

VLAN 상태

STG(Spanning Tree Group) 상태

🚦 radware								C 17:08:14	∬ User: admin
Alteon 192.168.1.1	Apply STG	Save Rever	▼ 🖏 t Sync					Diff	Dump
pe: 5224XL (Standalone) mt IP: 192.168.1.1 . Status: Active	Spanning Tree			비귀 ~ ㅠ -					. 0
sion: 31.0.8.0 C: 00:03:B2:A8:4 <u>7:</u> 00		히드리 그눕 1	Ť	면경 토폴5	=시의 수		막으로 면접	경안 이우 시1	간
ö 🔗 C		Group		Number of Topology Chan	ges	Time Sin	ce Last Changes		
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lem	3			0		0 Days,	3 Hours, 27 Minutes, 22 3	econde	
vork	5			0		0 Days,	3 Hours, 27 Minutes, 22 S	econds.	
Physical Parts	6			0		0 Days,	3 Hours, 27 Minutes, 22 S	econds.	
	7			0		0 Days,	3 Hours, 27 Minutes, 22 S	econds.	
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Layer 3	14 4 Pag	e 1 of 1 🕨	4					Displaying R	ows 1 - 16 of 16
High Availability	Spanning Tree	Group BPDU Statistics		수신된	BPDU		전송된	BPDU	
	Port	Status		BPDU R	eceived		BPDU Tr	asmitted	
			Configuration	TCN	RSTP/MSTP	Configuration	TCN	RSTP/MSTP	
	1	Disabled	0	0	0	0	0	0	~
	2	Disabled	0	0	0	0	0	0	
	3	Disabled	0	0	0	0	0	0	
	4	Disabled	0	0	0	0	0	0	
	5	Disabled	0	0	0	0	0	0	~
	6	Disabled	0	0	0	0	0	0	>
plication Delivery	II I Pag	e 1 of 1	1					Displaying R	ows 1 - 26 of 26
curity					=				
COMPLEX									

L3 Interface 정보

VSR 상태 정보

	High Availability 정보
구분	Чв
Status	VRRP의 상태를 나타냄 • Init : VLAN에 활성 링크를 가진 포트가 없는 경우 • Master : Virtual IP에 대하여 ARP request에 대해 응답 • BackUp : Virtual IP에 대하여 ARP request에 대해 응답하지 않음 • Holdoff : VRRP 작업은 글로벌 설정으로 지정된 간격에 일시 중지
Router ID	Index로 VRRP을 구분함
VRID	VRID 식별자, Virtual Mac address를 만드는데 사용
IP Address	Virtual IP
Interface	VR에 대한 기본 베이스가 되는 Interface을 지정함
Priority	Master를 선별하기 위한 우선순위 값 • 값 : 1-254 • 기본값 : 100
Ownership	VRRP IP 주소의 소유자를 나타냄 • Owner : IP 인터페이스가 가상 주소 IP로 동일한 IP 주소를 갖는 경우, 소유자로 간주 • Renter : 장치에서 소유하지 않은 가상 라우터

Real Server 상태 정보

	Real S	erver 정보	
구분	내 용	구분	내용
Status	리얼서버의 구성 상태 • Enabled(활성화) • Disabled(비활성화) • Disable-with-fastage(리얼서버가 비 활성화 되었고 기존 세션의 fastage 처리)	MAC address	Real Server의 MAC 주소
Server State	Server의 상태를 나타냄 값 : Disabled(비활성화), Failed(실패), Running(실행)		Current Sessions : 현재 열린 세션의 수
Operational State	작동 상태	Sessions	Total Sessions : Real Server에 할당된 총 세션
Real Server ID	Real Server의 Index 값		Highest Sessions : 가장 높은 동시 세션 수
Description	Server의 설명	Total Bytes	Real Server 전송 및 수신 옥텟
IP Address	Real Server의 IP 주소	Server Failures	마지막 재부팅 후 Real Server가 실패한 횟수

Group 상태 정보

Virtual Server 상태 정보

🐮 radware									C 17:1	5:43 L Use	r: admin 🔻
Alteon 192.168.1.1	Apply	Save R	tevert S	Vinc						Diff D	ump ?
Type: 5224XL (Standalone) Mgmt IP: 192.168.1.1 HA Status: Active Version: 31.0.8.0	Virtual Servers										٩
MAC: 00:03:B2:A8:47:00	tatus	Virtual Server ID	Description	IP Address	Connection Per 5	Secor Throughput Per Sec	[I Current Sessions	Total Sessions	Highest Sessions	Total Octets	
	Search	• Search	Search	Search	Search	Search	Search	Search	Search	Search	
Configuration Monitoring	Enabled	100		192.168.1.100	0	0	0	42	8	153948	
Verterrork Vertication Delivery Click Virtual Servers Filters Generations Server Resources State	Page	1 of 1	1 M 2 등 3 Se	onitoring 메누 록되어 있는 \ rvice Port 상 [[]	, 에서 Applicati /irtual Servers 태 정보를 확인 [:]	ion Deliver 상태 정보를 할 수 있다.	ty -> Viri 를 확인할	tual Serve 수 있다.	ers 메뉴 클	클릭 isplaying Rows	1 - 1 of 1
Traffic Match Criteria Application Services	Virtual Services	of Selected Virtual Se	erver		Co	ntent Based Rules of S	elected Virtual Serv	ice			
LinkProof	۲				۲						
Global Traffic Redirection	Virtual Server ID	Application Servic	e Port Protocol	Action Target	Connections per Sec	tual Server ID Service	ID Content Rule II	Action Current	Sessions Total Sess	ons Highest !	Sessions
AppShape++	100	HTTP 80	ТСР	Group 10	П	here is no data to display.					
Security											
Security		1.4 - 6 684 46		to the accordants of stars.	-						

Virtual Server 상태 정보

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Alteon 192.168.1.1	Apply	Save	s → Revert	Sync								Diff C	ump (
	Virtual Se	rvers											
Ype: 5224XL (Standalone) 4gmt IP: 192.168.1.1 4A Status: Active Version: 31.0.8.0	Virtual Servers												Q
4AC: 00:03:B2:A8:47:00	Status	Virtual Server ID	Description	1	IP Address		Connection Per Seco	or Throughput Per	Sec[I Current Sessio	ns Total Sessions	Highest Sessions	Total Octets	
Configuration Monitoring	Search	Search	Search		Search		Search	Search	Search	Search	Search	Search	
Overview	Enabled	100			192.168.1.100		0	0	0	42	8	153948	
Overview					Virtual Ser	rvers View Virtual Se	ervice ×						-
System					Virtual Server ID:	100							
Network													
					Service Dort:	80 0 1				- 11			
Application Delivery					Service Port:	* (4)	Runtime Sta	atus : 서	버의 상태	H			
Application Delivery • Virtual Servers					Service Port: Action:	eroup (U	Runtime Sta p/Down/Ad	atus : 서 Imin-Do	버의 상태 wn/Warr	태 hing/Shutd	lown)		
Application Delivery Virtual Servers Filters					Service Port: Action: Group ID:	(U) (U) (U)	Runtime Sta p/Down/Ad Failure Reas	atus : 서 Imin-Do son : 서	버의 상태 wn/Warr 비 Down	해 ning/Shutd 에 대한 이	lown) 유		
Application Delivery Virtual Servers Filters Server Resources		1 of 1			Service Port: Action: Group ID:	60 (U) 6000 (U) 10 (S)	Runtime Sta p/Down/Ad Failure Reas	atus : 서 Imin-Do son : 서	버의 상태 wn/Warr 버 Down	태 ning/Shutd 에 대한 이	lown) 유		
Application Delivery Virtual Servers Filters Server Resources SSL Taffic Match Orderia	3 Page	1 of 1			Service Port: Action: Group ID: Traffic	60 (U) Group (U) 10 (5) Traffic	Runtime Sta p/Down/Ad Failure Reas	atus : 서 Imin-Do son : 서	버의 상태 wn/Warr <u>버 Down</u>	배 ning/Shutd 에 대한 이	lown) 유		
Application Delivery	3 Page	1 of 1	Server		Service Port: Action: Group ID: Traffic Statistics	60 (U) 10 (5) Traffic	Runtime Sta p/Down/Ad Failure Reas	atus : 서 Imin-Do son : 서	버의 상태 wn/Warr <u>버 Down</u> 5	배 ning/Shutd 에 대한 이)	lown) 유		٩
Application Delivery	3 Virtual Server	1 of 1	Server		Service Port: Action: Group ID: Traffic Statistics	80 (U) Group (U) 10 (5) Traffic Runtime St	Runtime Sta p/Down/Ad Failure Reas	atus : 서 Imin-Do son : 서	버의 상태 wn/Warr 비 Down	태 ning/Shutd 에 대한 이)	lown) 유		٩
Application Delivery Virtual Servers Filters Server Resources SsL Traffic Match Criteria Application Services LinkProf Global Traffic Redirection	3 Page Virtual Server ID	1 of 1	Server	Docol Acti	Service Port: Action: Group ID: Traffic Statistics MTTP	eo (U) Group (U) 10 (5) Traffic Auntime St Search	Runtime Sta p/Down/Ad Failure Reas	atus : 서 Imin-Do son : 서 Garrett Sessions Tota Search See	버의 상태 wn/Warr 버 Down 5 Sessions Highert Session the Search	태g/Shutd에 대한 이 에 대한 이 (Falur Rason Sarch	lown) 유		٩
Application Delivery	3 Page Virtual Server ID 100	1 of 1 TSelected Virtual Application Serv HTTP 80	Server rice Port Prote	Docol Acti	Action: Action: Group ID: Traffic Statistics ion UTTP SSL	B) (4) Group (U) 10 (5) Traffic Runtime St Search Up Dom	Runtime Sta p/Down/Ad Failure Reas	atus : 서 Imin-Do son : 서 Search See	버의 상태 wn/Warr 버 Down Seelon Hepert Seelon Seelon Hepert Seelon Seelon 29	태g/Shutd에 대한 이 에 대한 이 (filure Reason Search Connection Timese.	lown) 유		Q
Application Delivery	3 Virtual Server ID 100	1 of 1	Server rice Port Prot	ocol Acti	Service Part: Action: Group ID: Traffic Statistics MTTP Statistics Statistics Caching and Comp	B (4) Group (U) 10 (5) Traffic Functione St Gearch Up Down	Runtime Sta p/Down/Ad Failure Reas Real ID Garch 101 102	atus : 서 Imin-Do son : 서 Curret Sessions Teta Search See 22 144 0 0	버의 상태 wn/Warr 버 Down	태 ning/Shutd 에 대한 이 대한 이 Faller Reson Serch	lown) 유		٩
Application Delivery Application Delivery Virtual Servers Filters Server Resources SSL Traffic Match Criteria Application Services LinkProof Global Traffic Redirection AppShape++	3 Page Virtual Server ID Virtual Server ID 100	1 of 1	Server rice Port Prot	ocol Acti	Service Port: Action: Group ID: Partific Statistics HTTP Caching and Comp Defense Hessaph	B A	Runtime Sta p/Down/Ad Failure Reas and Base Stat	atus : 서 Imin-Do son : 서 ser 등 2 14 0 0	버의 상태 wn/Warr 버 Down Sesters Highest Seet 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	태 ning/Shutd 에 대한 이 대한 이 filter Reson Serch Corrector Timest.	lown) 유		Q
Application Delivery Virtual Servers Filters Server Resources SSL Traffic Match Criteria Application Services LinkProof Global Traffic Redirection AppShape++	3 Page Virtual Server ID 100	1 of 1 MSsleed Virtual Application Serv HTTP 80	Server rice Port Prot TCP	ocol Acti	Service Port: Action: Group ID: Traffic Statistics Statistics Statistics Caching and Comp Defense Resaigh	en (4) Group (U) 10 (5) Traffic Parties S2 Dom Press g	Runtime Sta p/Down/Ad Failure Reas	atus : 서 Imin-Do son : 서 ser Sester Teta Ser Sester Teta Ser Sester Teta	버의 상태 wn/Warr 버 Down J Down	태g/Shutd 에 대한 이 대한 이	lown) 유		Q
Application Delivery	Virtual Server ID 100	1 of 1 Testected Virtual Application Serv HTTP 80	Server TCP	Docol Acti	Service Part: Action: Group ID: Traffic Statistics HTTP SSL Cuching and Cane Defense Resagin	e (U) source (U)	Runtime Sta p/Down/Ad Failure Reas	atus : 서 Imin-Do son : 서 serret Sesser 12 14 0 0	버의 상태 wn/Warr <u>버 Down</u> Sesties Higher Seet a Sach 29	태 ning/Shutd 에 대한 이 (Riber Reson Sarch Centedior Timote.	lown) 유		Q
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Filter 상태 정보

Filt Action 정보						
구분	내용					
Allow	프레임이 전달되도록 허용합니다. 역방향 세션이 활성화된 경우에, 이 필터링 액션은 리터닝 트래픽을 서비스 팜으로 리다이렉트하는데 사용될 수 있습니다.					
Deny	이 필터의 조건에 맞는 프레임을 폐기합니다.					
NAT	일반 네트워크 주소 변환(NAT)을 수행합니다. 개인 네트워크 구조의 출발지 또는 목적지 IP 주소 및 포트 정보를 광고된 네트워크 IP 주소 및 포트로(부터) 매핑하기 위해 사 용될 수 있습니다.					
Redirect	예를 들면, 웹 캐시 리다이렉션을 위해 이 필터의 조건에 적합한 프레임을 지정된 그룹에 리다이렉트합니다.					
GoTo	물리적 포트에 Fail이 발생할 때 대체 필터로 적용해야 하는 경우 지정합니다. 필터 처리가 지정된 필터로 이동하게 함으로써, 필터 ID의 블록을 효과적으로 건너뜁니다. 필터 검색 조건이 지정된 필터 ID에서 계속됩니다. 이동 필터는 제7계층 분류를 지원하지 않습니다.					
Outbound LLB	지정된 wan 링크 그룹에서 선택된 wan 링크를 통해 트래픽을 로컬 네트워크에서 광역 네트워크로 투명하게 전달합니다. 이렇게 나가는 트래픽을 naT하는 데 사용되는 공용 주소는 각 wan 링크(wan 링크 서버 구성에서)에 따라 구성되어야 합니 다.					

L4 Port Processing 확인

- Alteon 포트에 Port Processing 확인할 수 있다.

Га	dware										5 16:08:0	1 2	User: ad	min
Alteon :	192.168.1.1	2 Apply	Save Requ	uired Rev	ert Sync							Diff	Dump	(
Fype: Mgmt IP: HA Status:	5224XL (Standalone) 192.168.1.1 Active		reprocessing										E	٩
Version: MAC:	00:03:B2:A8:47:00	Port	Client	Server	Proxy (Client NAT)	Return to Sender (RTS)	L3-Filter	IDSLB	Hot Standby	Filter/Outbound LLB	Inter-Switch	F	liters	
2	*	Search	Search	Search	Search	Search	Search	Search •	Search -	Search •	Search	•		
onfiguration	Monitoring	1	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			~
Overview		2	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
oremen		3	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
System		4	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
Network		5	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
		6	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
Application	n Delivery	7	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
Quick S	ervice Setup	8	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
Virtual S	Services	9	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
Filters		10	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
Server R	Resources	11	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
9 651		12	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
Traffic M	latch Criteria	13	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
Applicati	ion Convisor	14	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
DAIC AU	thesity	15	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
DN3 Aut		16	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled			
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AppSna	ipe++ Scripts	18	Enableu	Enabled	Enableu	Disabled	Disabled	Disabled	Disableu	Disableu	Disableu			
> Port Pr	rocessing	H A	Page 1	of 1 🕨	н.						Display	ing Row	/s 1 - 26 c	f 26
Security		Furlag Mac	rades Note: The	filter on the slor	t table can be set in its may	designed view								_
Copyright ©	Radware Ltd. 2017 All Right	s Reserved	sages note. The	niter on the aler	c table can be set in its may	uniizeu view.								
	구분						설	명						
Port			(읽기 전용) SLB 정보와 관련된 포트 번호											
	Climat			어드 +	그 하서친 /	시 니 드 기 거								
	Client		글라이	인드 서	이 철상와 (서구글 시싱								
	Server		서버쳤	리 확성	성하 여부륵	지정								

Server	서버 처리 활성화 여부를 지정
Proxy (Client NAT)	스위치 포트에 프록시 IP 주소 사용 여부를 지정
Return to Sender(RTS)	스위치 포트에 RTS 처리 활성화 여부를 지정 기본값: 비활성화
L3-Filter	L3 필터링을 활성화할 것인지 여부를 지정 기본값: 비활성화
IDSLB	침입 감지 서버 로드 밸런싱의 활성화 여부를 지정 기본값: 비활성화
Hot Standby	스위치 포트에 상시 대기 처리를 활성화할 것인지 여부를 지정 기본값: 비활성화 VRRP 상시 대기 장애복구와 함께 이 옵션 및 인터 스위치 옵션을 사용
Filter/Outbound LLB	필터링/아웃바운드 LLB의 활성화 여부를 지정, 이 기능이 활성화 되었을 때, 사용가능 목록 및 선택 목록이 열리고, 장치는 선택 목록에 필터에 따라서 필터링 기본값: 비활성화
Inter-Switch	스위치 포트에 인터 스위치 처리를 활성화할 것인지 여부를 지정 기본값: 비활성화

Dashboard

Dashboard 확인

- System View, Application Delivery에 대한 Dashboard를 확인할 수 있다.

dware									
192.168.1.1	0 🔷	9 -	Q5					自	
A	Welcome Save	Revert S	Sync					Diff	Dump
5224XL (Standalone) 192.168.1.1 Alteo	n Setup								
Active 31.0.8.0	anto On a lite the Albert	an initial configuration. Click	the fellowine link						
00:03:B2:A8:47:00	eate or edit the Alter	on Initial configuration, Click	the following link	:					
Monitoring	p Configuration								
Click 🔍	Application Setup								
ard System	Time: 14:51:42		Last Apply:	14:50:01 Mon Apr 22, 2	019				
Status View Last S	ve: 14:50:05	Mon Apr 22, 2019	sysName:						
II Version	31.0.8.0		Host/IP:	192 168 1 1					
VEISIO			nosy ir .						
MAC A	ddress: 00:03:b2	2:a8:47:00	Last Boot:	12:49:21 Mon Apr 22, 2	019 (hard reset f				
Switch	Uptime: 0 days, 3	hours, 4 minutes and 55 secon	Form Factor:	Standalone					
— Li	censes and Capacity								
		Feature Licens	ses				Capacity Licenses		
Feat	re	Sta	atus		Feature Throughout (Mhos)	License	Current Usage	Peak Usage	
Delivery Geo	DB Undate	Pe	ermanent		SSL (CPS)	5000	0.CPS	0 CPS	
						The second s		0.00	
Radware Ltd. 2017 All Rights Reserved 좌측 Dashboard	inced Routing 를 클릭하이	™ 여 <mark>아래와 같은</mark>	ermanent 페이지를	확인할 수 ?	Compression (Mbps)		0 Mbps	U MDDS	
Radware Ltd. 2017 All Rights Reserved 좌측 Dashboard	nced Routing 를 클릭하이	[™] 여 아래와 같은	페이지를	<mark>.</mark> 확인할 수 2	Compression (Mbps)			U MDDS	
Adv Radware Ltd. 2017 All Rights Reserved 좌측 Dashboard upp.168.1.1 System ration	inced Routing 를 클릭하이 View A	R 여 아래와 같은 pplication Delivery View	rmanent 페이지를	· 확인할 수 9	Compression (Mbps) 있다.		0 Mbps	U MODS	Log Out
Adv Radware Ltd. 2017 All Rights Reserved 좌측 Dashboard dware 192.168.1.1 System ration	eed Routing 를 클릭하ር View A	며 아래와 같은 pplication Delivery View	rmanent 페이지를	· 확인할 수 9	Compression (Mbps)		0 Mbps	U MODS	Log Out
조작측 Dashboard 전책주 Dashboard dware 192.168.1.1 System ration	inced Routing 를 클릭하ር View A	며 아래와 같은 pplication Delivery View	rmanent 페이지를	· 확인할 수 9	Compression (Mbps)		0 Mbps	U MODS	Log Out
조작측 Dashboard dware 192.168.1.1 System ration	eed Routing 를 클릭하ር	며 아래와 같은 pplication Delivery View	rmanent 페이지를	· 확인할 수 9	Compression (Mbps)		0 Mbps	U MODS	Log Out
Adv Radware Ltd. 2017 All Rights Reserved 좌측 Dashboard dware 192.168.1.1 System cation	eed Routing 를 클릭하ር View A	며 아래와 같은 pplication Delivery View	rmanent 페이지를	• 확인할 수 9 nd Fans <u>Temperature</u> Sensor 1 Normal	Compression (Mbps)		0 Mbps	U MODS	Log Out
Adv Radware Ltd. 2017 All Rights Reserved 조작측 Dashboard dware 192.168.1.1 System radion	eed Routing 를 클릭하C	며 아래와 같은 pplication Delivery View	rmanent 페이지를	· 확인할 수 9 nd Fans <u>Temperature</u> Sensor 1 Normal	Compression (Mbps)		0 Mbps	U MODS	Log Out
Adv Radware Ltd. 2017 All Rights Reserved 조착측 Dashboard dware 192.168.1.1 System ration	inced Routing 를 클릭하ር	며 아래와 같은 pplication Delivery View	rmanent 페이지를 Temperature a	· 확인할 수 9 nd Fans <u>Temperature</u> Sensor 1 Normal Critical Fan Status	Compression (Mbps)		0 Mbps	U MODS	Log Out
Adv Radware Ltd. 2017 All Rights Reserved 좌측 Dashboard dware 192.168.1.1 System ration	inced Routing 를 클릭하C	며 아래와 같은 pplication Delivery View	rmanent 페이지를	· 확인할 수 9 nd Fans <u>Temperature</u> Sensor 1 Normal <u>Critical Fan Status</u> 3 fans Up	Compression (Mbps)		0 Mbps	U MODS	Log Out
Adv Radware Ltd. 2017 All Rights Reserved 조각측 Dashboard Uware 192.168.1.1 System ration	inced Routing 를 클릭하ር View A	며 아래와 같은 pplication Delivery View 아verage SP MP	Temperature a	ind Fans Temperature Sensor 1 Normal <u>Critical Fan Status</u> 3 fans Up	Compression (Mbps)	1000	0 Mbps Pause 17:33:24 Caching	U Mops User: admin [admin] 13 Hard Dis	Log Out
조작측 Dashboard Ciware 192.168.1.1 System ration	inced Routing 클 클릭하C view A	Pr	Temperature a	ind Fans Temperature Sensor 1 Normal Critical Fan Status 3 fans Up	Compression (Mbps)	0 Session Table	0 Mbps Pause 17:33:24 0 Caching	U Mops User: admin (admin) 13 Hard Dis	Log Out
Adv Radware Ltd. 2017 All Rights Reserved 조작측 Dashboard 192.168.1.1 System ration	inced Routing 클 클릭하ር view A	Pr 다 아래와 같은 pplication Delivery View @Average SP @MP	rmanent 페이지를	ind Fans Temperature Sensor 1 Normal Critical Fan Status 3 fans Up	Compression (Mbps)	0 Session Table	0 Mbps Pause 17:33:24 Caching	U MODS	Log Out
Adv Radware Ltd. 2017 All Rights Reserved 조작측 Dashboard 192.168.1.1 System ration	inced Routing 클 클릭하C view A	Pi 아래와 같은 pplication Delivery View	Temperature a	· 확인할 수 9 nd Fans <u>Temperature</u> Sensor 1 Normal <u>Critical Fan Status</u> 3 fans Up	Compression (Mbps)	0 Session Table	0 Mbps	U MODS User: admin (admin) User: admin (admin) I3 Hard Dis Reset All Peak Values	Log Out
Adv Radware Ltd. 2017 All Rights Reserved 조각측 Dashboard 192.168.1.1 System ration	view A	부 아래와 같은 pplication Delivery View @Average SP @MP 17:33:20	Temperature a	· 확인할 수 9 md Fans Temperature Sensor 1 Normal <u>Critical Fan Status</u> 3 fans Up ty Throughput 5	Compression (Mbps)	0 Session Table	0 Mbps	U MODS User: admin (admin) User: admin (admin) I3 Hard Dis Reset All Peak Values	Log Out
Adv Radware Ltd. 2017 All Rights Reserved 조각측 Dashboard 192.168.1.1 System ration	inced Routing 클 클릭하C view A 17:30:00	Pi 아래와 같은 pplication Delivery View	Temperature a	· 확인할 수 9 md Fans Temperature Sensor 1 Normal <u>Critical Fan Status</u> 3 fans Up ty Throughput S	Compression (Mbps)	0 Session Table	0 Mbps Pause 17:33:24 Caching	U MODS User: admin (admin) User: admin (admin) I3 Hard Dis Reset All Peak Values User: admin (admin)	Log Out k
Adv Radware Ltd. 2017 All Rights Reserved 조가측 Dashboard 192.168.1.1 System ration	inced Routing 를 클릭하C View A	부 아래와 같은 pplication Delivery View 아verage SP 에서 17:33:20	Temperature a	· 확인할 수 9 Ind Fans Temperature Sensor 1 Normal <u>Critical Fan Status</u> 3 fans Up ty Throughput S	Compression (Mbps)	0 Session Table	0 Mbps Pause 17:33:24 Caching	U MODS User: admin (admin) User: admin (admin) I3 Hard Dis Reset All Peak Values Ucit	Log Out k
Adv Radware Ltd. 2017 All Rights Reserved 조가측 Dashboard 192.168.1.1 System ration	inced Routing 를 클릭하ር View A 17:30:00	부 아래와 같은 pplication Delivery View 아Verage SP 에 P 17:33:20	Temperature a	· 확인할 수 9 Ind Fans Temperature Sensor 1 Normal <u>Critical Fan Status</u> 3 fans Up ty Throughput 5	Compression (Mbps)	0 Session Table	0 Mbps Pause 17:33:24 Caching	U MODS User: admin (admin) User: admin (admin) I3 Hard Dis Reset All Peak Values Cur	k k ense Limit est Peak
Adv Radware Ltd. 2017 All Rights Reserved 조가측 Dashboard Uware 192.168.1.1 System ration	inced Routing 를 클릭하ር View A 17:30:00	부 아래와 같은 pplication Delivery View 아Verage SP 에 P 17:33:20	대 이 지 를	· 확인할 수 9 Ind Fans Temperature Sensor 1 Normal Critical Fan Status 3 fans Up ty Throughput 5	Compression (Mbps)	0 Session Table	0 Mbps Pause 17:33:24 Caching	U MODS User: admin (admin) User: admin (admin) I3 Hard Dis Reset All Peak Values Cur Cur	k k
Adv Radware Ltd. 2017 All Rights Reserved 조가측 Dashboard Internation 192.168.1.1 System ration	inced Routing 를 클릭하C View A	부 아래와 같은 pplication Delivery View 아Verrage SP 아VP	Temperature a	· 확인할 수 9 Ind Fans Temperature Sensor 1 Normal <u>Critical Fan Status</u> 3 fans Up ty Throughput S	Compression (Mbps)	0 Session Table	0 Mbps Pause 17:33:24 Caching Caching	U MODS	k ense Limit errent
Adv Radware Ltd. 2017 All Rights Reserved 조가측 Dashboard Uware 192.168.1.1 System ration	inced Routing 를 클릭하ር View A 17:30:00	Pi 아래와 같은 pplication Delivery View 아마라와 같은 아마라와 한 아마라와 아마라 아마라와 아마라와 아마라와 아마라와 아마라와 아마라와	Temperature a	· 확인할 수 9 Ind Fans Temperature Sensor 1 Normal Critical Fan Status 3 fans Up ty Throughput 5	Compression (Mbps)	0 Session Table	0 Mbps Pause 17:33:24 Caching	U MODS User: admin (admin) User: admin (admin) I3 Hard Dis Reset All Peak Values Cur Cur	k ense Limit

Dashboard

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J Utilization	- Cremperature and	id Fans	3 System Usage		
00% 80% 60% 20% 0% 17.23.25 17.26.40 17.30.00 17.3	Average SP MP S320	Temperature Sensor 1 Normal Critical Fan Status 3 fans Up	100% 80% 60% 40% 20% 0% Session Table	0 Caching	13 Hard Disk
anse Capacity Utilization	5 License Capacit	Throughput SSL		Res	et All Peak Values License Lir Latest Pea Current
0079	st 5000				

		Dashboard 정보					
구분	항목	· · · · · · · · · · · · · · · · · · ·					
1	CPU 사용률	플랫폼에서 시간 경과에 따라 평균 SP CPU 사용률 (%) 및 MP CPU 사용률 (%)을 나타내는 선 그래프를 표시 X축은 시간을 표시 (시:분:초). Y축은 사용률 퍼센트를 표시 테이블 뷰는 플랫폼에 각 SP용 현재 MP CPU 사용률 (%) 및 CPU 사용률 (%)을 표시					
		센서별 온도계	팬				
2	온도 및 팬	*녹색-정상 *빨강- 작동 안함/적절히 작동 안함.	*녹색- 정상 *빨강-작동 안함/적절히 작동하지 않음.				
		테이블 뷰의 표시	테이블 뷰의 표시				
		*센서 ID 입니다. *상태-정상입니다. *온도-섭씨 및 화씨입니다.	*팬 ID-중요 팬 전용입니다. *상태-예를 들어서, 업상태입니다.				
3	시스템 사용량	차트 보기는 막대 그래프를 포함-세션 테이블, 하드 띠 캐싱-현재 사용률 값 (퍼센트)를 표시함. Y축은 현재 /	디스크 (물리적 독립형 플랫폼 전용으로 표시됨) 사용률 퍼센트를 표시합니다.				
4	라이선스 용량 사용률	차트 보기는 막대그래프를 포함 각 용량 라이선스의 현재 사용률 값 (퍼센트)을 나타내는 각 라이선스 타입용 하나의 막대그래프 입니다. Y축은 현재 사용률 퍼센트를 표시					
5	라이선스 용량	*처리용량-시간 경과에 따른 처리용량 사용 (Mbps)을 표시 (점선은 라이선스가 허용하는 최대 처리용량을 나타냄 Y측의 범위는 대수) *SSL-각각 선택된 vADC용 선은 시간 경과에 따른 SSL 사용량 (CPS)을 표시 (점선은 라이선스가 허용하는 최대 처리용량을 나타냄) 차트용 피크 값을 재설정하려면, 모든 피크 값 재설정을 클릭					

Dashboard

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		е 8.100.15	System	View	1	lication Delivery View							Pause 20:32:22	User: openbase [user] Log Out
Virtua	Service Selection							V	rtual Service Performance					= *
×	Status	Virtual Server	Application	Port	Protocol	Ib	(☞ Clear	Г	Throughput (Mbps)	Connections per Secon	nd Concurrent Connections			Chart Type: Logarithmic v
	ADMIN_DOWN DOWN DOWN DOWN DOWN DOWN DOWN	20 151 152 153 251 252 253	http http http http http http http	80 80 80 80 80 80 80	tep tep tep tep tep tep	0.0.0 192.168.100.151 192.168.100.152 192.168.100.153 192.168.100.152 192.168.100.152 192.168.100.152 192.168.100.153		ĸ	10					20.00 Albo 100 152 20 Albo 100 152 20 Albo 100 153 80 Albo 100 251 80 Albo 100 252 80 Albo 100 253 80 Albo 100 255 80 Albo 100
	구분				내	용 이 지도 나라		Mbps						
	State Virual Se	erver	가상,	가장 서비스	서미스 -용 가	의 작동장태 상 서버의 식별	자							
	Applicat	tion			Http, 1	ftp dns								
	Port			가	상 서비	비스 포트								
	Protoc	ol	가상	서비스	스 프로	.토콜 값: tcp, u	dp		1					
							Ŧ	L	20:22:06	20:24:06	20:26:06	20:28:06	20:30:06	20:32:06 Time

openbase

Service Status View openbase

Service Status View 확인

- System, Network, Application Delivery, Security에 대한 모니터링 정보를 확인할 수 있다. 매 15초마다 새로 고침 한다.

📑 radware	Pause 20:41:41 User Role: admin User Name: milim1 Log (
192.168.100.15	Service Status View
Status Summary	Detailed Status
Virtual Services: 7 1 1	Filter Options: Collapse All Legend 🔇 Up 🛕 Warning 🔀 Down 🖉 Admin Down 🕕 Shutdown
	Status: All Service의 수및 각상태의 Employed Employed Control Service ID: 20, http: (80 tcp), Action: group 주: Virtual Service의 수및 각상태의 퍼센트를 나타내는 원 그래프
Server Groups: 5	GO <u>Clear</u> \u00e4 Virtual Service ID: 251, http (80 tcp), Action: group
3 2	총 Group의 수 및 각 상태의 <mark>퍼센트를 나타내는 원 그래</mark> 프 Group 상태는 Grouping 된 Real Server의 상태에 따라 계상
Real Servers: 11	
	▶ 총 Real Server의 수 및 각 상태의 퍼센트를 나타내는 원 그래프
9 Legend Up Warning Down Admin Down Mixed Shutdown	 ✓ Up - 현재 상태가 Up이다. ✓ Warning - New Session이 없는 상태 또는 복구 상태이다. ✓ Down - 현재 상태가 Down 또는 Failed 이다. ✓ Admin Down - 구성이 Disable 상태이다.(전체 또는 그룹 중 하나) ✓ Shutdown - 작동 중지됨(전체 또는 그룹 중 하나)

Service Status View openbase

Service Status View 확인

- System, Network, Application Delivery, Security에 대한 모니터링 정보를 확인할 수 있다. 매 15초마다 새로 고침 한다.

: radware			Pause 20:41:41	User Role: admin User Name: milim	1 Log Out
192.168.100.15	Service Status View				
Status Summary	Detailed Status				
Virtual Services: 7 1 1 5	Filter Options: Callapse Status: All Type: All Free Text: 3	All /irtual Service ID: 20, http (80 tcp), Action: group /irtual Service ID: 151, http (80 tcp), Action: group /irtual Service ID: 152, http (80 tcp), Action: group /irtual Service ID: 153, http (80 tcp), Action: group	Legend 🥑 Up 🛕 Warning 🛔	🛿 Down 🥔 Admin Down 🕕 Shutdo	wn
Server Groups: 5	GO Clear	/irtual Service ID: 251, http (80 tcp), Action: group /irtual Service ID: 252, http (80 tcp), Action: group /irtual Service ID: 253, http (80 tcp), Action: group			
Real Servers: 11	Filter Options을 주어, 우측 로 ① 상태 (All, Up, Warning, Down, ② 대상 (All, Virtual Service, Grou ③ 모든 Text (IP Address, IP Se	그를 Filtering 하여 볼 수 있 Admin Down, Shut Down) 타답 up, real Server, Content Rule) ^E uffix) 를 입력하여 Real Serve	다. 입을 지정한다. 타입을 지정한다. er 및 Group을 Filte	ring 한다.	
Up Warning Down Admin Down Mixed Shutdown					

		nha	C
📑 radware			Pause 21:35:24 User Role: admin User Name: milim1 Log O
192.168.100.15	Service Status View		
Status Summary	Detailed Status		
Virtual Services: 7 1 5 Server Groups: 5 2 2	Filter Options:	 Virtual Service ID: 20, http (80 tcp), Action: group Virtual Service ID: 151, http (80 tcp), Action: group Virtual Service ID: 152, http (80 tcp), Action: group Virtual Service ID: 251, http (80 tcp), Action: group Virtual Service ID: 252, http (80 tcp), Action: group Virtual Service ID: 252, http (80 tcp), Action: group Virtual Service ID: 252, http (80 tcp), Action: group Virtual Service ID: 252, http (80 tcp), Action: group Virtual Service ID: 252, http (80 tcp), Action: group Virtual Service ID: 252, http (80 tcp), Action: group Virtual Service ID: 253, http (80 tcp), Action: group Virtual Service ID: 253, http (80 tcp), Action: group 	Legend 🕏 Up 🛕 Warning 😰 Down ⊘ Admin Down 🛈 Shutdown
Real Servers: 11	Filter Options 적용 결과 화	면	
Legend Up Warning Down Admin Down Mixed Shutdown			

감사합니다.

