

如何設定 Apache syslog

V017





N-Partner Technologies Co. 版權所有。未經 N-Partner Technologies Co. 書面許可,不得以任何形式仿製、拷貝、 謄抄或轉譯本手冊的任何內容。由於產品一直在更新中,N-Partner Technologies Co. 保留不告知變動的權利。

商標

本手冊內所提到的任何的公司產品、名稱及註冊商標、均屬其合法註冊公司所有。





前詞	言			1
1	Red	Hat.		2
	1.1	RedHa	t 5	2
		1.1.1	編輯 Apache 設定檔	2
		1.1.2	安裝 Rsyslog 8 套件	5
		1.1.3	設定 Rsyslog 轉發 Apache log	11
	1.2	RedHa	t 6	12
		1.2.1	編輯 Apache 設定檔	12
		1.2.2	更新 Rsyslog 8 套件	15
		1.2.3	設定 Rsyslog 轉發 Apache log	20
	1.3	RedHa	t7	22
		1.3.1	編輯 Apache 設定檔	22
		1.3.2	更新 Rsyslog 版本	25
		1.3.3	設定 Rsyslog 轉發 Apache log	27
	1.4	RedHa	t 8	28
		1.4.1	編輯 Apache 設定檔	28
		1.4.2	設定 Rsyslog 轉發 Apache log	31
2	Cent	OS		33
	2.1	CentO	S 5	33
		2.1.1	編輯 Apache 設定檔	33
		2.1.2	安裝 Rsyslog 8 套件	36
		2.1.3	設定 Rsyslog 轉發 Apache log	38
	2.2	CentO	S 6	39
		2.2.1	編輯 Apache 設定檔	39
		2.2.2	更新 Rsyslog 8 版本	42
		2.2.3	設定 Rsyslog 轉發 Apache log	44
	2.3	CentO	S7	46
		2.3.1	編輯 Apache 設定檔	46
		2.3.2	更新 Rsyslog 版本	49
		2.3.3	設定 Rsyslog 轉發 Apache log	50
	2.4	CentO	S 8	51
		2.4.1	編輯 Apache 設定檔	51
		2.4.2	更新 Rsyslog 版本	54
		2.4.3	設定 Rsyslog 轉發 Apache log	56

3	Orac	cleLinux							
	3.1	OracleLinux 6							
		3.1.1 編輯 Apache 設定檔 57							
		3.1.2 更新 Rsyslog 8 版本 60							
		3.1.3 設定 Rsyslog 轉發 Apache log 62							
	3.2	OracleLinux 7							
		3.2.1 編輯 Apache 設定檔 64							
		3.2.2 更新 Rsyslog 版本 67							
		3.2.3 設定 Rsyslog 轉發 Apache log 68							
4	Deb	ian 9							
	4.1	編輯 Apache 設定檔 69							
	4.2	設定 Rsyslog 轉發 Apache log 71							
5	Ubu	ntu 18							
	5.1	編輯 Apache 設定檔73							
	5.2	設定 Rsyslog 轉發 Apache log75							
6	SUS	SE							
	6.1	SUSE 10							
		6.1.1 編輯 Apache 設定檔							
		6.1.2 設定 syslog-ng 轉發 Apache log ...80							
	6.2	SUSE 15 82							
		6.2.1 編輯 Apache 設定檔 82							
		6.2.2 設定 Rsyslog 轉發 Apache log 85							
7	Sola	nris 11							
	7.1	編輯 Apache 設定檔							
	7.2	設定 Rsyslog 轉發 Apache log89							
8	Free	BSD 12							
	8.1	編輯 Apache 設定檔							
	8.2	設定 Syslog 轉發 Apache log							
9	Win	dows 2016							
	9.1	NXLog							
		9.1.1 NXLog 安裝							
		9.1.2 NXLog 設定檔下載 95							
		9.1.3 NXLog 設定檔 96							



10 N-R	eporter												101
	9.2.2	重啟 Apache 服務 .						•	•			•	100
	9.2.1	編輯 Apache 設定檔		•		•	•	•	•			•	98
9.2	Apach	е					•						98
	9.1.4	NXLog 設定檔下載 .	•	-	•	•	-	•	•	•	•	•	97

.



前言

本文件描述 N-Reporter 使用者 · 在 Linux 使用 Rsyslog / Syslogd / Syslog-NG 和在 Windows 使用 Open Source 工 具 NXLog 方式設定 Apache syslog。

NXLog 工具將 Windows Apache 記錄轉成 syslog · 再轉發到 N-Reporter 做正規化、稽核與分析。

測試環境為 Red Hat / CentOS / OracleLinux / Debian / Ubuntu / SUSE / Solaris / FreeBSD 和 Windows 安裝 Apache 套件。

LogFormat Options:https://httpd.apache.org/docs/current/mod/mod_log_config.html
ErrorLogFormat Options:https://httpd.apache.org/docs/current/mod/core.html

註:本文件僅做為如何將日誌吐出的設定參考,建議您仍應聯繫設備或是軟體原廠尋求日誌輸出方式之協助。



1 RedHat

1.1 RedHat 5

- 1.1.1 編輯 Apache 設定檔
- (1) 查看 Apache 版本

httpd -v

[root@RedHat5 ~]# httpd -v
Server version: Apache/2.2.3
Server built: Jul 18 2014 04:46:39
[root@RedHat5 ~]#

(2) 編輯 Apache 設定檔

vi /etc/httpd/conf/httpd.conf

[root@RedHat5 ~]# vi /etc/httpd/conf/httpd.conf



(3) 設定 Apache log 參數

ErrorLog logs/error-NReporter.log <IfModule logio_module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> CustomLog "logs/access-NReporter.log" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be
logged here. If you *do* define an error logfile for a <VirtualHost> # container, that host's errors will be logged there and not here. ErrorLog logs/error log ErrorLog logs/error-NReporter.log LogLevel: Control the number of messages logged to the error_log. # # Possible values include: debug, info, notice, warn, error, crit, # alert, emerg. LogLevel warn # The following directives define some format nicknames for use with a CustomLog directive (see below). # # LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common LogFormat "%{Referer}i -> %U" referer LogFormat "%{User-agent}i" agent # "combinedio" includes actual counts of actual bytes received (%I) and sent (%O); this # requires the mod logio module to be loaded. #LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %0" combinedio <IfModule logio module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\" nreporter </IfModule> # # The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <VirtualHost> # container, they will be logged here. Contrariwise, if you *do* # define per <VirtualHost> access logfiles, transactions will be logged therein and *not* in this file. ŧ #CustomLog logs/access_log common # If you would like to have separate agent and referer logfiles, uncomment # the following directives. # #CustomLog logs/referer_log referer #CustomLog logs/agent_log agent # For a single logfile with access, agent, and referer information (Combined Logfile Format), use the following directive: # CustomLog logs/access log combined CustomLog "logs/access-NReporter.log" nreporter



(4) 重啟 Apache 服務和確認 Apache 服務狀態

service httpd restart && service httpd status

<pre>[root@RedHat5 ~]# service httpd restart && service httpd</pre>	stat	us	
Stopping httpd:	[]
Starting httpd:	[]
httpd dead but subsys locked			
[root@RedHat5 ~]#			



1.1.2 安裝 Rsyslog 8 套件

1.1.2.1 線上安裝

(1) 停用 syslog 服務

```
# service syslog stop
[root@RedHat5 ~]# service syslog stop
Shutting down kernel logger: [ OK ]
Shutting down system logger: [ OK ]
[root@RedHat5 ~]#
```

(2) 停用開機 syslog 自動啟動服務

<pre># chkconfig syslog c # chkconfig syslog -</pre>	off list						
[root@RedHat5 [root@RedHat5	~]# chkco ~]# chkco	onfig sys onfig sys	slog off slogli	ist			
syslog	0:off	1:off	2:off	3:off	4:off	5:off	6:off
[root@RedHat5	~]#						

(3) 下載 rsyslog repository 設定檔

# cu	ırl -o	/etc	/yum.rep	os.	d/rsys	log.rep	o http	://rpms.a	adiscon.c	com/v8-s	table/rsyslog.repo
[roo	ot@RedH	at5 -	~]# curl	- 0	/etc/y	um.repos	s.d/rsy	slog.repo	http://	rpms.adi	<pre>scon.com/v8-stable/rsyslog.repo</pre>
96	Total	96	Received	%	Xferd	Average	e Speed	Time	Time	Time	Current
						Dload	Upload	Total	Spent	Left	Speed
100	227	100	227	0	Θ	230	0				- 0
[roo	[root@RedHat5 ~]#										

(4) 安裝 rsyslog 套件





(5) 安裝 rsyslog 套件

service rsyslog start && service rsyslog status

[root@RedHat5 ~]# service rsyslog start && service rsyslog status
Starting system logger: [OK]
rsyslogd (pid 3348) is running...
[root@RedHat5 ~]#

(6) 設定 rsyslog 開機自動啟用和確認 rsyslog 自動啟用等級

<pre># chkconfig syslog # chkconfig syslog</pre>	on list						
[root@RedHat5 [root@RedHat5	~]# chkcor ~]# chkcor	nfig rsy nfig rsy	slog on slog]	list			
rsyslog	0:off	1:off	2:on	3:on	4:on	5:on	6:off
[root@RedHat5	~]#						

(7) 確認 rsyslog 版本

#rsyslogd -v						
[root@RedHat5 ~]# rsyslogd -v						
rsyslogd 8.16.0, compiled with:						
PLATFORM:	x86_64-redhat-linux-gnu					
PLATFORM (lsb_release -d):						
FEATURE_REGEXP:	Yes					
GSSAPI Kerberos 5 support:	No					
FEATURE_DEBUG (debug build, slow code):	No					
32bit Atomic operations supported:	Yes					
64bit Atomic operations supported:	Yes					
memory allocator:	system default					
Runtime Instrumentation (slow code):	No					
uuid support:	No					
Number of Bits in RainerScript integers	: 64					
See http://www.rsyslog.com for more information.						
[root@RedHat5 ~]#						



1.1.2.2 離線安裝

(1) 停用 syslog 服務

service syslog stop

[root@RedHat5	~]# service syslog stop		
Shutting down	kernel logger:	[]
Shutting down	system logger:	[]
[root@RedHat5	~]#		

(2) 停用開機 syslog 自動啟動服務

<pre># chkconfig syslog c # chkconfig syslog -</pre>	off list						
[root@RedHat5 [root@RedHat5	~]# chkco ~]# chkco	nfig sys nfig sys	log off logl	ist			
syslog	0:off	1:off	2:off	3:off	4:off	5:off	6:off
[root@RedHat5	~]#						



(3) 下載 rsyslog 和相依套件

<pre># wget http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/rsyslog-8.16.0-1.el5.centos.x86_64.rpm http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/libestr-0.1.10-1.el5.centos.x86_64.rpm http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/libgt-0.3.11-1.el5.centos.x86_64.rpm http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/liblogging-1.0.6-1.el5.centos.x86_64.rpm http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/liblogging-1.0.6-1.el5.centos.x86_64.rpm</pre>
<pre>[root@RedHat5 ~]# wget http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/rsyslog-8.16.0-1.el5.centos.x86_64.rpm http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/ /libestr-0.1.10-1.el5.centos.x86_64.rpm http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/Libgt-0.3.11-1.el5.centos.x86_64.rpm http://rpms.adiscon.com/v8-stable/epel- /s/x86_64/RPMS/Liblogging-1.0.6-1.el5.centos.x86_64.rpm http://rpms.adiscon.com/v8-stable/epel- /s/x86_64/RPMS/Liblogging-1.0.6-1.el5.centos.x86_64.rpm http://rpms.adiscon.com/v8-stable/epel- /s/x86_64/RPMS/Liblogging-1.0.6-1.el5.centos.x86_64.rpm http://rpms.adiscon.com/v8-stable/epel- /s/x86_64/RPMS/Liblogging-1.0.6-1.el5.centos.x86_64.rpm /secolving rpms.adiscon.com/s5.5.202.239 Connecting to rpms.adiscon.com/45.55.202.239 Connecting to rpms.adiscon.com/45.55.202.239 HTTP request sent, awaiting response 200 0K Length: 811194 (792K) [application/x-redhat-package-manager] Saving to: 'rsyslog-8.16.0-1.el5.centos.x86_64.rpm'</pre>
100%[>] 811,194 492K/s in 1.6s
2022-03-03 01:40:57 (492 KB/s) · `rsyslog-8.16.0-1.el5.centos.x86_64.rpm' saved [811194/811194]
2022-03-03 01:40:57 http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/libestr-0.1.10-1.el5.centos.x86_64.rpm Reusing existing connection to rpms.adiscon.com:80. HTTP request sent, awaiting response 200 OK Length: 8358 (8.4K) [application/x-redhat-package-manager] Saving to: `libestr-0.1.10-1.el5.centos.x86_64.rpm'
100%[=>] 8,585K/s in θs
2022-03-03 01:40:57 (61.6 MB/s) - `libestr-0.1.10-1.el5.centos.x86_64.rpm' saved [8585/8585]
2022-03-03 01:40:57 http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/libgt-0.3.11-1.el5.centos.x86_64.rpm Reusing existing connection to rpms.adiscon.com:80. HTTP request sent, awaiting response 200 0K Length: 62763 (GiK) [application/x-redmat-package-manager] Saving to: `libgt-0.3.11-1.el5.centos.x86_64.rpm'
100%[>] 62,763 ···K/s in 0.001s
2022-03-03 01:40:57 (58.7 MB/s) - `libgt-0.3.11-1.el5.centos.x86_64.rpm' saved [62763/62763]
2022-03-03 01:40:57 http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/liblogging-1.0.6-1.el5.centos.x86_64.rpm Reusing existing connection to rpms.adiscon.com:80. HTTP request sent, awaiting response 200 OK Length: 25311 (25K) [application/x-redhat-package-manager] Saving to: `liblogging-1.0.6-1.el5.centos.x86_64.rpm`
100%[======>] 25,311K/s in 0s
2022-03-03 01:40:57 (104 MB/s) - `liblogging-1.0.6-1.el5.centos.x86_64.rpm' saved [25311/25311]
2022-03-03 01:40:57 http://rpms.adiscon.com/v8-stable/epel-5/x86_64/RPMS/json-c-0.11-3.el5.centos.x86_64.rpm Reusing existing connection to rpms.adiscon.com:80. HTTP request sent, awaiting response 200 OK Length: 54911 (54K) [application/x-redmat-package-manager] Saving to: `json-c-0.11-3.el5.centos.x86_64.rpm'
100%[>] 54,911K/s in 0.001s
2022-03-03 01:40:58 (48.4 MB/s) - `json-c-0.11-3.el5.centos.x86_64.rpm' saved [54911/54911]
FINISHED2022-03-03 01:40:58 Downloaded: 5 files, 940K in 1.6s (583 KB/s)

(4) 查看下載 rsyslog 相依套件

#11	
[root@RedHat5 ~1# 11	
total 968	
-rw-rr 1 root root 54911 Apr 30 2	2014 json-c-0.11-3.el5.centos.x86_64.rpm
-rw-rr 1 root root 8585 Dec 9 2	2014 libestr-0.1.10-1.el5.centos.x86_64.rpm
-rw-rr 1 root root 62763 Nov 15 2	2013 libgt-0.3.11-1.el5.centos.x86_64.rpm
-rw-rr 1 root root 25311 Mar 6 2	2017 liblogging-1.0.6-1.el5.centos.x86_64.rpm
-rw-rr 1 root root 811194 Jan 26 2	2016 rsyslog-8.16.0-1.el5.centos.x86 64.rpm
[root@RedHat5 ~]#	



(5) 安裝 rsyslog 相依套件

<pre># rpm -ivh json-c-0.11-3.el5.centos.x86_64.rpm libestr-0.1.10-1.el5.centos.x86_64.rpm libgt-0.3.11- 1.el5.centos.x86_64.rpm liblogging-1.0.6-1.el5.centos.x86_64.rpm</pre>
<pre>[root@RedHat5 ~]# rpm -ivh json-c-0.11-3.el5.centos.x86_64.rpm libestr-0.1.10-1.el5.centos.x86_64.rpm libgt-0.3.11-1.el5.centos.x86_64.rpm liblogging-1.0.6-1.el5.cento s.x86_64.rpm warning: json-c-0.11-3.el5.centos.x86_64.rpm: Header V3 RSA/SHA1 signature: NOKEY, key ID e00b8985 Preparing ##################################</pre>

(6) 更新 rsyslog 套件

# 1pm 0011 15y510g 0.10.0	L.elb.centos.xoo_04.1pm
<pre>[root@RedHat5 ~]# rpm -Uvh</pre>	rsyslog-8.16.0-1.el5.centos.x86_64.rpm
warning: rsyslog-8.16.0-1.e	15.centos.x86_64.rpm: Header V3 RSA/SHA1 signature: NOKEY, key ID e00b8985
Preparing	<i>#####################################</i>
1:rsyslog	<i>#####################################</i>
[root@RedHat5 ~]#	

(7) 啟動 rsyslog 服務和確認 rsyslog 服務正常

service rsyslog start && service rsyslog status
[root@RedHat5 ~]# service rsyslog start && service rsyslog status
Starting system logger: [0K]
rsyslogd (pid 3348) is running...
[root@RedHat5 ~]#

(8) 設定 rsyslog 開機自動啟用和確認 rsyslog 自動啟用等級

<pre># chkconfig rsyslog # chkconfig rsyslog</pre>	on list						
[root@RedHat5 [root@RedHat5	~]# chkcor ~]# chkcor	nfig rsys nfig rsys	slog on slogl	list			
rsyslog	0:off	1:off	2:on	3:on	4:on	5:on	6:off
[root@RedHat5	~]#						



(9) 確認 rsyslog 版本

# rsysloga -v	
<pre>[root@RedHat5 ~]# rsyslogd -v rsyslogd 8.16.0. compiled with:</pre>	
PLATFORM: PLATFORM (lsb release -d):	x86_64-redhat-linux-gnu
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	No
FEATURE DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	No
Number of Bits in RainerScript integers	: 64
<pre>See http://www.rsyslog.com for more information [root@RedHat5 ~]#</pre>	•



1.1.3 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

[root@RedHat5 ~]# vi /etc/rsyslog.conf

(2) 新增 imfile 輸入模組

module(load="imfile") # provides support for file logging

MODULES

module(load="imuxsock") # provides support for local system logging (e.g. via logger command)
module(load="imklog") # provides kernel logging support (previously done by rklogd)
#module(load"immark") # provides --MARK-- message capability
module(load="imfile") # provides support for file logging

(3) 設定轉發 Apache log

Send Apache log to N-Reporter input(type="imfile" File=" /var/log/httpd/access-NReporter.log " Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File=" /var/log/httpd/error-NReporter.log " Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target=" 192.168.3.88 " Port="514" Protocol="udp")}

Send Apache log to N-Reporter input(type="imfile" File="/var/log/httpd/access-NReporter.log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File="/var/log/httpd/error-NReporter.log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target="192.168.8.4" Port="514" Protocol="udp")}

紅色文字部位請輸入 Apache 日誌路徑檔案和 N-Reporter 系統 IP address

(4) 重新啟動 rsyslog 服務和確認 rsyslog 服務正常

service rsyslog start && service rsyslog status

<pre>[root@RedHat5 ~]# service rsyslog restart && service</pre>	rsyslog	status
Shutting down system logger:	[OK]
Starting system logger:	[0K]
rsyslogd (pid 3192) is running		
[root@RedHat5 ~]#		



1.2 RedHat 6

1.2.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

```
# httpd -v
[root@RedHat6 ~]# httpd -v
Server version: Apache/2.2.15 (Unix)
Server built: Jun 19 2018 15:45:13
[root@RedHat6 ~]#
```

(2) 編輯 Apache 設定檔

vi /etc/httpd/conf/httpd.conf

[root@RedHat6 ~]# vi /etc/httpd/conf/httpd.conf



(3) 設定 Apache log 參數

ErrorLog logs/error-NReporter.log <IfModule logio_module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> CustomLog "logs/access-NReporter.log" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be # logged here. If you *do* define an error logfile for a <VirtualHost> # container, that host's errors will be logged there and not here. ErrorLog logs/error log ErrorLog logs/error-NReporter.log # LogLevel: Control the number of messages logged to the error_log. # Possible values include: debug, info, notice, warn, error, crit, alert, emerg. # LogLevel warn # The following directives define some format nicknames for use with a CustomLog directive (see below). # # " LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common LogFormat "%{Referer}i -> %U" referer LogFormat "%{User-agent}i" agent # "combinedio" includes actual counts of actual bytes received (%I) and sent (%O); this # requires the mod logio module to be loaded. #LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %0" combinedio <IfModule logio_module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\" nreporter </IfModule> # The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <VirtualHost> # container, they will be logged here. Contrariwise, if you *do* # define per-<VirtualHost> access logfiles, transactions will be # logged therein and *not* in this file. #CustomLog logs/access_log common If you would like to have separate agent and referer logfiles, uncomment # the following directives. # # #CustomLog logs/referer_log referer #CustomLog logs/agent_log agent # For a single logfile with access, agent, and referer information (Combined Logfile Format), use the following directive: # CustomLog logs/access log combined CustomLog "logs/access-NReporter.log" nreporter



(4) 重啟 Apache 服務和確認 Apache 服務狀態

service httpd restart && service httpd status

<pre>[root@RedHat6 ~]# service httpd restart && service httpd</pre>	status	
Stopping httpd:	[0K]
Starting httpd:	[0K]
httpd (pid 7937) is running		
[root@RedHat6 ~]#		



1.2.2 更新 Rsyslog 8 套件

1.2.2.1 線上安裝

(1) 檢查 syslog 服務

rsyslogd -v

[root@RedHat6 ~]# rsyslogd -v	
rsyslogd 5.8.10, compiled with:	
FEATURE_REGEXP:	Yes
FEATURE_LARGEFILE:	No
GSSAPI Kerberos 5 support:	Yes
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
Runtime Instrumentation (slow code):	No
See <pre>http://www.rsyslog.com for more information</pre>	
[root@RedHat6 ~]#	

(2) 下載 rsyslog repository 設定檔

#	curl	-0	/et	c/yum.rep	008	s.d/rsy	slog.re	po http	://rpms.	adiscon.	com/v8-s	stable/rsys	slog.repo	
_														
[r	oot@Re	edHat	t6 -	~]# curl -	- 0	/etc/y	um.repos	s.d/rsys	log.repo	http://	rpms.adi	scon.com/v8	-stable/rsy	/slog.repo
	% Tota	al	%	Received	9/0	Xferd	Average	e Speed	Time	Time	Time	Current		
							Dload	Upload	Total	Spent	Left	Speed		
11	3 22	27 1	113	227	Θ	Θ	193	Θ	0:00:01	0:00:01		- 1107		
[r	oot@Re	edHat	t6 -	~]#										

(3) 安裝 rsyslog 套件



(4) 啟動 rsyslog 服務和確認 rsyslog 服務正常

service rsyslog start && service rsyslog status





(5) 設定 rsyslog 開機自動啟用和確認 rsyslog 自動啟用等級

<pre># chkconfig rsyslog # chkconfig rsyslog</pre>	on list						
[root@RedHat6 [root@RedHat6	~]# chkcor ~]# chkcor	nfig rsy nfig rsy	slog on slog	list			
rsyslog	0:off	1:off	2:on	3:on	4:on	5:on	6:off
<pre>[root@RedHat6</pre>	~]#						

(6) 確認 rsyslog 版本 - 1

11090108u (
[root@RedHat6 ~]# rsyslogd -v	
rsyslogd 8.2010.0 (aka 2020.10) compiled with:	
PLATFORM:	x86_64-redhat-linux-gnu
<pre>PLATFORM (lsb_release -d):</pre>	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	No
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
systemd support:	No
Config file:	/etc/rsyslog.conf
PID file:	/var/run/syslogd.pid
Number of Bits in RainerScript integers	: 64
See https://www.rsyslog.com for more information	n.
[root@RedHat6 ~]#	



1.2.2.2 離線安裝

reveload -w

(1) 檢查 rsyslog 版本

# 15/510gd V	
[root@RedHat6 ~]# rsyslogd -v	
rsyslogd 5.8.10, compiled with:	
FEATURE REGEXP:	Yes
FEATURE LARGEFILE:	No
GSSAPI Kerberos 5 support:	Yes
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
Runtime Instrumentation (slow code):	No
See http://www.rsyslog.com for more information	

(2) 下載 rsyslog 和相依套件

[root@RedHat6 ~]#

<pre># wget http://rpms.adiscon.com/v8-stable/epel-6/x86_64/RPMS/rsyslog-8.2010.0-2 http://rpms.adiscon.com/v8-stable/epel-6/x86_64/RPMS/libestr-0.1.11-1.el6.x86_ http://rpms.adiscon.com/v8- stable/epel-6/x86_64/RPMS/libfastjson4-0.99.8-1.el [root@RedHat6 ~]# wget http://rpms.adiscon.com/v8-stable/epel-6/x86_64/RPMS/rsyslog-8.2010.0-2.el6.x86_64.rpm troot@RedHat6 ~]# wget http://rpms.adiscon.com/v8-stable/epel-6/x86_64/RPMS/rsyslog-8.2010.0-2.el6.x86_64.rpm r-2022-03-03 03:24:31 http://rpms.adiscon.com/v8-stable/epel-6/x86_64/RPMS/rsyslog-8.2010.0-2.el6.x86_64.rpm r-2022-03-03 03:24:31 http://rpms.adiscon.com/v8-stable/epel-6/x86_64/RPMS/rsyslog-8.2010.0-2.el6.x86_64.rpm Resolving rpms.adiscon.com/45.55.202.239]:80 connected. HTTP request sent, awaiting response 200 K Length: 660868 (645K) [application/x-redhat-package-manager] Saving to: "rsyslog-8.2010.0-2.el6.x86_64.rpm"</pre>	.el6.x86 64.rpm 6.x86_64 mm/v8-stable/	_64.rp 1.rpm epel-6/x86	M64/RPMS/libe
100%[===================================	660,868	452K/s	in 1.4s
2022-03-03 03:24:33 (452 KB/s) - "rsyslog-8.2010.0-2.el6.x86_64.rpm" saved [660868/660868]			
2022-03-03 03:24:33 http://rpms.adiscon.com/v8-stable/epel-6/x86_64/RPMS/libestr-0.1.11-1.el6.x86_64.rpm Reusing existing connection to rpms.adiscon.com:80. HTTP request sent, awaiting response 200 OK Length: 8640 (8.4K) [application/x-redMat-package-manager] Saving to: "libestr-0.1.11-1.el6.x86_64.rpm"			
100%[8,640	K/s	in Θs
2022-03-03 03:24:33 (1.34 GB/s) - "libestr-0.1.11-1.el6.x86_64.rpm" saved [8640/8640]			
2022-03-03 03:24:33 http://rpms.adiscon.com/v8-stable/epel-6/x86_64/RPMS/libfastjson4-0.99.8-1.el6.x86_64.rpm Reusing existing connection to rpms.adiscon.com:80. HTTP request sent, awaiting response 200 OK Length: 56052 (55K) [application/x-redhat-package-manager] Saving to: "libfastjson4-0.99.8-1.el6.x86_64.rpm"			
100%[===================================	56,052	K/s	in 0.001s
2022-03-03 03:24:34 (53.2 MB/s) - "libfastjson4-0.99.8-1.el6.x86_64.rpm" saved [56052/56052]			
FINISHED2022-03-03 03:24:34 Downloaded: 3 files, 709K in 1.4s (496 KB/s)			

(3) 查看下載 rsyslog 相依套件





(4) 安裝 rsyslog 相依套件



(5) 啟動 rsyslog 服務和確認 rsyslog 服務正常



(6) 設定 rsyslog 開機自動啟用和確認 rsyslog 自動啟用等級

<pre># chkconfig rsyslog on # chkconfig rsysloglist</pre>		
<pre>[root@RedHat6 ~]# chkconfig rsyslog on [root@RedHat6 ~]# chkconfig rsysloglist</pre>		
rsyslog 0:off 1:off 2:on 3:on 4:on	5:on	6:off
[root@RedHat6 ~]#		



(7) 確認 rsyslog 版本

#rsyslogd -v

[root@PodHat6 _]# reveload v	
[TOOL@Reunato ~]# TSystogu -V	
rsyslogd 8.2010.0 (aka 2020.10) compiled with:	
PLATFORM:	x86_64-redhat-linux-gnu
<pre>PLATFORM (lsb_release -d):</pre>	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	No
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
systemd support:	No
Config file:	/etc/rsyslog.conf
PID file:	/var/run/syslogd.pid
Number of Bits in RainerScript integers	: 64
See https://www.rsyslog.com for more information	n.
[root@RedHat6 ~1#	



1.2.3 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

[root@RedHat6 ~]# vi /etc/rsyslog.conf

(2) 新增 imfile 輸入模組

module(load="imfile") # provides support for file logging

MODULES

module(load="imuxsock") # provides support for local system logging (e.g. via logger command)
#module(load="imklog") # provides kernel logging support (previously done by rklogd)
#module(load"immark") # provides --MARK-- message capability
module(load="imfile") # provides support for file logging

(3) 註解 imjournal 模組

module(load="imjournal" StateFile="imjournal.state")

provides access to the systemd journal and file to store the position in the journal # module(load="imjournal" StateFile="imjournal.state")

(4) 註解 OmitLocalLogging

\$OmitLocalLogging on

Turn off message reception via local log socket;

local messages are retrieved through imjournal now.

\$OmitLocalLogging on

(5) 設定轉發 Apache log



紅色文字部位請輸入 Apache 日誌路徑檔案和 N-Reporter 系統 IP address



(6) 重啟 rsyslog 服務和確認 rsyslog 服務正常

service rsyslog restart && service rsyslog status

<pre>[root@RedHat6 ~]# service rsyslog restart && service</pre>	rsyslog status
Shutting down system logger:	[OK]
Starting system logger:	[OK]
rsyslogd (pid 1979) is running	
[root@RedHat6 ~]#	



1.3 RedHat 7

1.3.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

```
# httpd -v
[root@RedHat7 ~]# httpd -v
Server version: Apache/2.4.6 (Cent0S)
Server built: Oct 1 2020 16:52:05
[root@RedHat7 ~]#
```

(2) 編輯 Apache 設定檔

vi /etc/httpd/conf/httpd.conf

[root@RedHat7 ~]# vi /etc/httpd/conf/httpd.conf



(3) 新增 log 設定

ErrorLog "logs/error-NReporter.log" ErrorLogFormat "[%{u}t] [%-m:%1] [pid %P:tid %T] %7F: %E: [client\%a] %M% ,\referer\%{Referer}i"
<IfModule logio_module>
LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> CustomLog "logs/access-NReporter.log" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be # logged here. If you *do* define an error logfile for a <VirtualHost> # container, that host's errors will be logged there and not here. ErrorLog "logs/error_log" ErrorLog "logs/error-NReporter.log" # LogLevel: Control the number of messages logged to the error_log. # Possible values include: debug, info, notice, warn, error, crit, # alert, emerg. Ħ LogLevel warn <IfModule log_config_module> # The following directives define some format nicknames for use with # a CustomLog directive (see below). LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common ErrorLogFormat "[%{u}t] [%-m:%l] [pid %P:tid %T] %7F: %E: [client\ %a] %M% ,\ referer\ %{Referer}i" <IfModule logio module> # You need to enable mod logio.c to use %I and %O LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %0" combinedio LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> # # The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <VirtualHost> # container, they will be logged here. Contrariwise, if you *do* # define per-<VirtualHost> access logfiles, transactions will be # logged therein and *not* in this file. #CustomLog "logs/access_log" common # If you prefer a logfile with access, agent, and referer information # (Combined Logfile Format) you can use the following directive. # CustomLog "logs/access log" combined CustomLog "logs/access-NReporter.log" nreporter /IfModule>



(4) 重啟 Apache 服務和確認 Apache 服務狀態

<pre># systemctl restart httpd && systemctl status httpd</pre>
[reat@PadHat7 _]# evetamet] restart bttpd {{ evetamet] status bttpd
httpd service - The Apache HTTP Server
<pre>Loaded: loaded (/usr/lib/systemd/system/httpd service: disabled: vendor preset: disabled)</pre>
Active: active (running) since Thu 2021-08-12 09:54:52 CST: 6ms ago
Docs: man:httpd(8)
man:apachectl(8)
Process: 5706 ExecStop=/bin/kill -WINCH \${MAINPID} (code=exited, status=0/SUCCESS)
Main PID: 5711 (httpd)
Status: "Processing requests"
CGroup: /system.slice/httpd.service
-5711 /usr/sbin/httpd -DF0REGR0UND
—5712 /usr/sbin/httpd -DF0REGR0UND
-5713 /usr/sbin/httpd -DF0REGROUND
-5714 /usr/sbin/httpd -DFOREGROUND
-5715 /usr/sbin/httpd -DFOREGROUND
└─5716 /usr/sbin/httpd -DF0REGR0UND
Aug 12 09:54:52 RedHat/.localdomain systemd[1]: Stopped The Apache HTTP Corver.
Aug 12 09:54:52 RedHat7.localdomain systemd[1]: Starting The Apache HTTP Server
Aug 12 09:54:52 RedHat7.localdomain systemu[i]: Started The Apache HTTP Server.



1.3.2 更新 Rsyslog 版本

(1) 檢查 rsyslog 版本

#rsyslogd -v	
<pre>[root@RedHat7 ~]# rsysload -y</pre>	
rsyslogd 8.24.0-34.el7, compiled with:	
PLATFORM:	x86_64-redhat-linux-gnu
<pre>PLATFORM (lsb_release -d):</pre>	_
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	Yes
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
Number of Bits in RainerScript integers	: 64
See http://www.rsyslog.com for more information	
[root@RedHat7 ~]#	

(2) 更新 rsyslog 套件

yum -y install rsyslog
Updated:
 rsyslog.x86_64 0:8.24.0-55.el7
Complete!

[root@RedHat7 ~]#



(3) 檢查 rsyslog 版本

#rsyslogd -v	
[mastoDadUat7]]# mava] and w	
[root@kedHat/~]# rsystogd -v	
rsyslogd 8.24.0-55.el7, compiled with:	
PLATFORM:	x86_64-redhat-linux-gnu
PLATFORM (lsb_release -d):	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	Yes
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
Number of Bits in RainerScript integers	: 64
See http://www.rsyslog.com for more information	
[root@RedHat7 ~]#	



1.3.3 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

[root@RedHat7 ~]# vi /etc/rsyslog.conf

(2) 新增 imfile 輸入模組

module(load="imfile") # provides support for file logging

MODULES

The imjournal module bellow is now used as a message source instead of imuxsock. \$ModLoad imuxsock # provides support for local system logging (e.g. via logger command) \$ModLoad imjournal # provides access to the systemd journal #\$ModLoad imklog # reads kernel messages (the same are read from journald) #\$ModLoad immark # provides --MARK-- message capability \$ModLoad imfile # provides support for file logging

(3) 設定轉發 Apache log

Send Apache log to N-Reporter input(type="imfile" File=" /var/log/httpd/access-NReporter.log " Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File=" /var/log/httpd/error-NReporter.log " Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target=" 192.168.3.88 " Port="514" Protocol="udp")}

Send Apache log to N-Reporter input(type="imfile" File="/var/log/httpd/access-NReporter.log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File="/var/log/httpd/error-NReporter.log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target="192.168.8.4" Port="514" Protocol="udp")}

紅色文字部位請輸入 Apache 日誌路徑檔案和 N-Reporter 系統 IP address

(4) 重啟 rsyslog 服務和確認 rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog

[root@RedHat7 ~]# systemctl restart rsyslog && systemctl status rsyslog
rsyslog.service - System Logging Service
Loaded: loaded (/usr/lib/systemd/system/rsyslog.service; enabled; vendor preset: enabled)
Active: active (running) since Thu 2021-08-12 10:01:10 CST: 4ms ago
Docs: man:rsysload(8)
http://www.rsvslog.com/doc/
Main PID: 5745 (rsvsload)
CGroup: /system.slice/rsyslog.service
Aug 12 10:01:10 RedHat7.localdomain systemd[1]: Stopped System Logging Service.
Aug 12 10:01:10 BedHat7.localdomain system[1]: Starting System Logging Service
Aug 12 10:01:10 RedHat7 localdomain rsvslog(15745): [origin software="rsvslogd" swVersion="8 24 0.55 el7" x-pid="5745" x-info="http://www.rsvslog.com"] start
Aug 12 19:01:10 Reddat7. Jocaldomain system(]]: Started System Logning Service
root@BedHat7 ~1#



1.4 RedHat 8

1.4.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

```
# httpd -v
[root@RedHat8 ~]# httpd -v
Server version: Apache/2.4.37 (Red Hat Enterprise Linux)
Server built: Sep 2 2019 14:31:45
[root@RedHat8 ~]#
```

(2) 編輯 Apache 設定檔

vi /etc/httpd/conf/httpd.conf

[root@RedHat8 ~]# vi /etc/httpd/conf/httpd.conf



(3) 新增 log 設定

ErrorLog "logs/error-NReporter.log" ErrorLogFormat "[%{u}t] [%-m:%1] [pid %P:tid %T] %7F: %E: [client\%a] %M% ,\referer\%{Referer}i"
<IfModule logio_module>
LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> CustomLog "logs/access-NReporter.log" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be # logged here. If you *do* define an error logfile for a <VirtualHost> # container, that host's errors will be logged there and not here. ErrorLog "logs/error log" ErrorLog "logs/error-NReporter.log" # LogLevel: Control the number of messages logged to the error_log. # Possible values include: debug, info, notice, warn, error, crit, # alert, emerg. Ħ LogLevel warn <IfModule log_config_module> # The following directives define some format nicknames for use with # a CustomLog directive (see below). # LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common ErrorLogFormat "[%{u}t] [%-m:%l] [pid %P:tid %T] %7F: %E: [client\ %a] %M% ,\ referer\ %{Referer}i" <IfModule logio_module> # You need to enable mod_logio.c to use %I and %O LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %O" combinedio LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> # # The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <VirtualHost> # container, they will be logged here. Contrariwise, if you *do*
define per-<VirtualHost> access logfiles, transactions will be # logged therein and *not* in this file. #CustomLog "logs/access_log" common # If you prefer a logfile with access, agent, and referer information # (Combined Logfile Format) you can use the following directive. CustomLog "logs/access log" combined CustomLog "logs/access-NReporter.log" nreporter IfModule>



(4) 重啟 Apache 服務和確認 Apache 服務狀態

1.4.2 設定 Rsyslog 轉發 Apache log

(1) 檢查 rsyslog 版本

. 15,51584	
[root@RedHat8 ~]# rsyslogd -v	
rsyslogd 8.37.0-13.el8, compiled with:	
PLATFORM:	x86_64-redhat-linux-gnu
<pre>PLATFORM (lsb_release -d):</pre>	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	Yes
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
systemd support:	Yes
Number of Bits in RainerScript integers	: 64
See http://www.rsyslog.com for more information	1.
[root@RedHat8 ~]#	

(2) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

[root@RedHat8 ~]# vi /etc/rsyslog.conf

(3) 新增 imfile 輸入模組

<pre>module(load="imfile") # provides support for file logging</pre>
MODULES
<pre>module(load="imuxsock" # provides support for local system logging (e.g. via logger command)</pre>
SysSock.Use="off") # Turn off message reception via local log socket;
<pre># local messages are retrieved through imjournal now.</pre>
<pre>module(load="imjournal"</pre>
StateFile="imjournal.state") # File to store the position in the journal
#module(load="imklog") # reads kernel messages (the same are read from journald)
<pre>#module(load"immark") # providesMARK message capability</pre>
<pre>module(load="imfile") # provides support for file logging</pre>



(4) 設定轉發 Apache log



(5) 重啟 rsyslog 服務和確認 rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog

[root@RedHat8 ~]# systemctl restart rsyslog && systemctl status rsyslog orsyslog.service - System Logging Service Loaded: loaded (/usr/lib/system/rsyslog.service; enabled; vendor preset: enabled) Active: active (running) since Thu 2021-08-12 11:16:19 CST; 9ms ago Docs: man:rsyslog(8) http://www.rsyslog.com/doc/ Main PID: 10518 (rsyslog) Tasks: 4 (limit: 23980) Memory: 1.2M CGroup: /system.slice/rsyslog.service __10518 /usr/sbin/rsyslogd -n Aug 12 11:16:19 RedHat8.localdomain rsyslogd[10518]: environment variable IZ is not set, auto correcting this to TZ=/etc/localtime [v8.37.0-13.el& try http://www.rsyslog.com/e/2442] Aug 12 11:16:19 RedHat8.localdomain rsyslogd[10518]: [origin software="rsyslogd" swVersion="8.37.0-13.el& r.jol="http://www.rsyslog.com"] start Aug 12 11:16:19 RedHat8.localdomain systemd[1]: Started System Logging Service... Aug 12 11:16:19 RedHat8.localdomain systemd[1]: Started System Logging Service... Aug 12 11:16:19 RedHat8.localdomain systemd[1]: Started System Logging Service... Aug 12 11:16:19 RedHat8.localdomain systemd[1]: Started System Logging Service... Aug 12 11:16:19 RedHat8.localdomain systemd[1]: Started System Logging Service... Aug 12 11:16:19 RedHat8.localdomain systemd[1]: Started System Logging Service... Aug 12 11:16:19 RedHat8.localdomain systemd[1]: Started System Logging Service... Aug 12 11:16:19 RedHat8.localdomain rsyslogd[10518]: [origin software="rsyslogd" swVersion="8.37.0-13.el& r.jol="">http://www.rsyslog.com"] start Aug 12 11:16:19 RedHat8.localdomain rsyslogd[10518]: [origin software="rsyslogd" swVersion="8.37.0-13.el& r.jol="">http://www.rsyslog.com"] start Aug 12 11:16:19 RedHat8.localdomain rsyslogd[10518]: [origin Service... Aug 12 11:16:19 RedHat8.localdomain rsyslogd[10518]: [origin Service... Aug 12 11:16:19 RedHat8.localdomain rsyslogd.com] start Aug 12 11:16:19 RedHat8.localdomain rsyslogd.com] [] Started System Logging Service...




2 CentOS

2.1 CentOS 5

- 2.1.1 編輯 Apache 設定檔
- (1) 查看 Apache 版本

httpd -v

[root@Cent0S5 ~]# httpd -v Server version: Apache/2.2.3 Server built: Jul 18 2016 10:45:28

(2) 編輯 Apache 設定檔

vi /etc/httpd/conf/httpd.conf

[root@Cent0S5 ~]# vi /etc/httpd/conf/httpd.conf



(3) 新增 log 設定

ErrorLog logs/error-NReporter.log <IfModule logio_module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> CustomLog "logs/access-NReporter.log" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be # logged here. If you *do* define an error logfile for a <VirtualHost> # container, that host's errors will be logged there and not here. ErrorLog logs/error_log ErrorLog logs/error-NReporter.log # LogLevel: Control the number of messages logged to the error log. # Possible values include: debug, info, notice, warn, error, crit, # alert, emerg. LogLevel warn # The following directives define some format nicknames for use with # a CustomLog directive (see below). LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common LogFormat "%{Referer}i -> %U" referer LogFormat "%{User-agent}i" agent # "combinedio" includes actual counts of actual bytes received (%I) and sent (%O); this # requires the mod_logio module to be loaded. #LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %0" combinedio <IfModule logio_module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> # The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <VirtualHost> # container, they will be logged here. Contrariwise, if you *do* # define per-<VirtualHost> access logfiles, transactions will be # logged therein and *not* in this file. #CustomLog logs/access_log common # If you would like to have separate agent and referer logfiles, uncomment # the following directives. #CustomLog logs/referer_log referer #CustomLog logs/agent_log agent # For a single logfile with access, agent, and referer information (Combined Logfile Format), use the following directive: # CustomLog logs/access log combined CustomLog logs/access-NReporter.log nreporter



(4) 重啟 Apache 服務和確認 Apache 服務狀態

service httpd restart && service httpd status

<pre>[root@Cent0S5 ~]# service httpd restart && service httpd</pre>	status	
Stopping httpd:	[0K]
Starting httpd:	[0K]
httpd dead but subsys locked		
[root@Cent0S5 ~]#		



2.1.2 安裝 Rsyslog 8 套件

(1) 停用 syslog 服務

service syslog stop && service syslog status

```
[root@Cent0S5 ~]# service syslog stop && service syslog status
Shutting down kernel logger: [ 0K ]
Shutting down system logger: [ 0K ]
syslogd is stopped
klogd is stopped
[root@Cent0S5 ~]#
```

(2) 停用開機 syslog 自動啟動服務

<pre># chkconfig syslog # chkconfig syslog</pre>	; off ;list							
[root@Cent0S5 [root@Cent0S5	~]# chkco ~]# chkco	nfig sys nfig sys	log off logli	.st				
syslog	0:off	1:off	2:off	3:off	4:off	5:off	6:off	
[root@Cent0S5	~]#							

(3) 下載 rsyslog repository 設定檔

curl -o /etc/yum.repos.d/rsyslog.repo http://rpms.adiscon.com/v8-stable/rsyslog.repo

		0.05	3.//		1 - 1 - 1		1.4	1			,	0 1 1 7 / 7
[ro	ot@Cent	055	~]# curl	- 0	/etc/y	um.repos	s.d/rsys	slog.repo	http://i	rpms.adi	scon.com/	v8-stable/rsyslog.repo
<u>9</u> 6	Total	9 <u>6</u>	Received	olo Olo	Xferd	Average	e Speed	Time	Time	Time	Current	
						Dload	Upload	Total	Spent	Left	Speed	
100	227	100	227	0	0	63	0	0:00:03	0:00:03		- 458	
[ro	ot@Cent	085	~]#									

(4) 安裝 rsyslog 套件





(5) 確認 rsyslog 版本

#rsysioga -v	
<pre>[root@Cent0S5 ~]# rsyslogd -v rsyslogd 8.16.0, compiled with:</pre>	
PLATFORM:	x86_64-redhat-linux-gnu
<pre>PLATFORM (lsb_release -d):</pre>	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	No
<pre>FEATURE_DEBUG (debug build, slow code):</pre>	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	No
Number of Bits in RainerScript integers	: 64
<pre>See http://www.rsyslog.com for more information [root@Cent0S5 ~]#</pre>	



2.1.3 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

[root@Cent0S5 ~]# vi /etc/rsyslog.conf

(2) 新增 imfile 輸入模組

module(load="imfile") # provides support for file logging

MODULES

```
module(load="imuxsock") # provides support for local system logging (e.g. via logger command)
module(load="imklog") # provides kernel logging support (previously done by rklogd)
#module(load"immark") # provides --MARK-- message capability
module(load="imfile") # provides support for file logging
```

(3) 設定轉發 Apache log

Send Apache log to N-Reporter input(type="imfile" File=" /var/log/httpd/access-NReporter.log " Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File=" /var/log/httpd/error-NReporter.log " Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target=" 192.168.3.88 " Port="514" Protocol="udp")}

Send Apache log to N-Reporter input(type="imfile" File="/var/log/httpd/access-NReporter.log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File="/var/log/httpd/error-NReporter.log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target="192.168.8.4" Port="514" Protocol="udp")}

紅色文字部位請輸入 Apache 日誌路徑檔案和 N-Reporter 系統 IP address

(4) 啟動 rsyslog 服務和確認 rsyslog 服務正常

service rsyslog start && service rsyslog status



(5) 設定 rsyslog 開機自動啟用和確認 rsyslog 自動啟用等級

```
# chkconfig rsyslog on
# chkconfig rsyslog --list
[root@Cent0S5 ~]# chkconfig rsyslog on
[root@Cent0S5 ~]# chkconfig rsyslog --list
rsyslog 0:off 1:off 2:on 3:on 4:on 5:on 6:off
[root@Cent0S5 ~]#
```



2.2 CentOS 6

2.2.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

```
#httpd -v
[root@Cent0S6 ~]# httpd -v
Server version: Apache/2.2.15 (Unix)
Server built: Jun 19 2018 15:45:13
[root@Cent0S6 ~]#
```

(2) 編輯 Apache 設定檔

vi /etc/httpd/conf/httpd.conf

[root@Cent0S6 ~]# vi /etc/httpd/conf/httpd.conf



(3) 新增 log 設定

ErrorLog logs/error-NReporter.log <IfModule logio_module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> CustomLog "logs/access-NReporter.log" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be logged here. If you *do* define an error logfile for a <VirtualHost> ħ: # container, that host's errors will be logged there and not here. * ErrorLog logs/error log ErrorLog logs/error-NReporter.log Ħ # LogLevel: Control the number of messages logged to the error log. # Possible values include: debug, info, notice, warn, error, crit, # alert, emerg. LogLevel warn # The following directives define some format nicknames for use with # a CustomLog directive (see below). ± LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common LogFormat "%{Referer}i -> %U" referer LogFormat "%{User-agent}i" agent # "combinedio" includes actual counts of actual bytes received (%I) and sent (%O); this # requires the mod logio module to be loaded. #LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %O" combinedio <IfModule logio module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> # The location and format of the access logfile (Common Logfile Format). If you do not define any access logfiles within a <VirtualHost> # # container, they will be logged here. Contrariwise, if you *do* # define per-<VirtualHost> access logfiles, transactions will be # logged therein and *not* in this file. #CustomLog logs/access_log common # If you would like to have separate agent and referer logfiles, uncomment the following directives. ŧ #CustomLog logs/referer log referer #CustomLog logs/agent log agent # For a single logfile with access, agent, and referer information (Combined Logfile Format), use the following directive: ŧŧ CustomLog logs/access log combined CustomLog logs/access-NReporter.log nreporter



(4) 重啟 Apache 服務和確認 Apache 服務狀態

service httpd restart && service httpd status

<pre>[root@Cent0S6 ~]# service httpd restart && service httpd</pre>	status		
Stopping httpd:	[0K]	
Starting httpd:	[0K]	
httpd (pid 1796) is running			
[root@Cent0S6 ~]#			



2.2.2 更新 Rsyslog 8 版本

(1) 檢查 rsyslog 版本

#rsyslogd -v

<pre>[root@CentOS6 ~]# rsyslogd -v rsyslogd 5.8.10, compiled with:</pre>	
rsyslogd 5.8.10, compiled with:	
FEATURE_REGEXP: Yes	5
FEATURE_LARGEFILE: No	
GSSAPI Kerberos 5 support: Ye	5
FEATURE_DEBUG (debug build, slow code): No	
32bit Atomic operations supported: Ye	5
64bit Atomic operations supported: Ye	5
Runtime Instrumentation (slow code): No	
Rune instrumentation (slow code). Ro	
See http://www.rsvslog.com for more information.	
[root@Cent0S6 ~]#	

(2) 下載 rsyslog repository 設定檔

curl -o /etc/yum.repos.d/rsyslog.repo http://rpms.adiscon.com/v8-stable/rsyslog.repo

[roo	ot@Cent	0S6 -	~]# curl	- 0	/etc/y	um.repo	s.d/rsys	slog.repo	http://r	pms.adi	scon.com	n/v8-stable/rsys	log.repo
96	Total	96 96	Received	%	Xferd	Average	e Speed	Time	Time	Time	Current		
						Dload	Upload	Total	Spent	Left	Speed		
113	227	113	227	Θ	0	122	Θ	0:00:01	0:00:01	::-	- 1112		
[roo	ot@Cent	0S6 -	~]#										

(3) 安裝 rsyslog 套件

#yum -y install rsyslog	
Dependency Installed: libestr.x86_64 0:0.1.11-1.el6 libfastjson4	4.x86_64 0:0.99.8-1.el6
Updated: rsyslog.x86_64 0:8.2010.0-2.el6	
Complete! [root@Cent0S6 ~]#	



(4) 確認 rsyslog 版本

#rsyslogd -v	
[rest@CoptOC6]# reveled v	
[root@centuso ~]# rsystoga -v	
rsyslogd 8.2010.0 (aka 2020.10) compiled with:	
PLATFORM:	x86_64-redhat-linux-gnu
PLATFORM (lsb_release -d):	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	No
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
systemd support:	No
Config file:	/etc/rsyslog.conf
PID file:	/var/run/syslogd.pid
Number of Bits in RainerScript integers	: 64
See https://www.rsyslog.com for more information	n.
[root@Cent0S6 ~]#	



設定 Rsyslog 轉發 Apache log 2.2.3

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

[root@RedHat6 ~]# vi /etc/rsyslog.conf

(2) 新增 imfile 輸入模組

module(load="imfile") # provides support for file logging

MODULES

module(load="imuxsock") # provides support for local system logging (e.g. via logger command) #module(load="imklog") # provides kernel logging support (previously done by rklogd) #module(load"immark") # provides --MARK-- message capability module(load="imfile") # provides support for file logging

(3) 註解 imjournal 模組

module(load="imjournal" StateFile="imjournal.state")

provides access to the systemd journal and file to store the position in the journal #module(load="imjournal" StateFile="imjournal.state")

(4) 註解 OmitLocalLogging

\$OmitLocalLogging on

Turn off message reception via local log socket; # local messages are retrieved through imjournal now. #\$OmitLocalLogging on

(5) 設定轉發 Apache log



Send Apache log to N-Reporter

Send Apache tog to Wrkeporter input(type="imfile" File="/var/log/httpd/access-NReporter.log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File="/var/log/httpd/error-NReporter.log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target="192.168.8.4" Port="514" Protocol="udp")}

紅色文字部位請輸入 Apache 日誌路徑檔案和 N-Reporter 系統 IP address



(6) 重啟 rsyslog 服務和確認 rsyslog 服務正常

service rsyslog restart && service rsyslog status

<pre>[root@Cent0S6 ~]# service rsyslog restart && service</pre>	rsyslog status
Shutting down system logger:	[OK]
Starting system logger:	[OK]
rsyslogd (pid 2094) is running	
[root@Cent0S6 ~]#	



2.3 CentOS 7

2.3.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

```
# httpd -v
[root@Cent0S7 ~]# httpd -v
Server version: Apache/2.4.6 (Cent0S)
Server built: Nov 16 2020 16:18:20
[root@Cent0S7 ~]#
```

(2) 編輯 Apache 設定檔

vi /etc/httpd/conf/httpd.conf

[root@Cent0S7 ~]# vi /etc/httpd/conf/httpd.conf



```
(3) 新增 log 設定
```

ErrorLog "logs/error-NReporter.log' ErrorLogFormat "[% {u} t] [%-m: %1] [pid %P:tid %T] %7F: %E: [client\%a] %M% , \referer\% {Referer} i"
<IfModule logio_module>
LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> CustomLog "logs/access-NReporter.log" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost>. # container, error messages relating to that virtual host will be # logged here. If you *do* define an error logfile for a <VirtualHost> # container, that host's errors will be logged there and not here. ErrorLog "logs/error_log" ErrorLog "logs/error-NReporter.log" # LogLevel: Control the number of messages logged to the error log. # Possible values include: debug, info, notice, warn, error, crit, # alert, emerg. Ħ LogLevel warn <IfModule log_config_module> # The following directives define some format nicknames for use with # a CustomLog directive (see below). # LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common ErrorLogFormat "[%{u}t] [%-m:%l] [pid %P:tid %T] %7F: %E: [client\ %a] %M% ,\ referer\ %{Referer}i" <IfModule logio module> # You need to enable mod_logio.c to use %I and %0 LogFormat "%h %l %u %t \["]%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %O" combinedio LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> ## # The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <VirtualHost> # container, they will be logged here. Contrariwise, if you *do*
define per-<VirtualHost> access logfiles, transactions will be # logged therein and *not* in this file. #CustomLog "logs/access log" common # If you prefer a logfile with access, agent, and referer information # (Combined Logfile Format) you can use the following directive. CustomLog "logs/access_log" combined CustomLog "logs/access-NReporter.log" nreporter /IfModule>



(4) 重啟 Apache 服務和確認 Apache 服務狀態

systemctl restart httpd && systemctl status httpd

[root@CentOS7 ~]# systemctl restart httpd && systemctl status httpd
httpd.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled)
Active: active (running) since Fri 2021-08-13 19:34:25 CST; 4ms ago
Docs: man:httpd(8)
<pre>man:apachectl(8)</pre>
<pre>Process: 2351 ExecStop=/bin/kill -WINCH \${MAINPID} (code=exited, status=0/SUCCESS)</pre>
Main PID: 2356 (httpd)
Status: "Processing requests"
CGroup: /system.slice/httpd.service
-2356 /usr/sbin/httpd -DFOREGROUND
—2357 /usr/sbin/httpd -DFOREGROUND
—2358 /usr/sbin/httpd -DFOREGROUND
-2359 /usr/sbin/httpd -DFOREGROUND
—2361 /usr/sbin/httpd -DFOREGROUND
└─2362 /usr/sbin/httpd -DFOREGROUND
Aug 13 19:34:25 Cent0S7.localdomain systemd[1]: Started The Apache HTTP Server.
[root@Cent0S7 ~]#



2.3.2 更新 Rsyslog 版本

(1) 檢查 rsyslog 版本

rsyslogd -v

[root@CentOS7 ~]# rsyslogd -v	
rsyslogd 7.4.7, compiled with:	
FEATURE_REGEXP:	Yes
FEATURE_LARGEFILE:	No
GSSAPI Kerberos 5 support:	Yes
<pre>FEATURE_DEBUG (debug build, slow code):</pre>	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
Runtime Instrumentation (slow code):	No
uuid support:	Yes

See http://www.rsyslog.com for more information.
[root@Cent0S7 ~]#

(2) 更新 rsyslog 8 套件

yum -y install rsyslog



(3) 檢查 rsyslog 版本

#rsyslogd -v		
[root@Cent0S7 ~]# rsyslogd -v		
rsyslogd 8.24.0-57.el7_9.1, compiled with:		
PLATFORM:	x86_64-redhat-linux-gnu	
<pre>PLATFORM (lsb_release -d):</pre>		
FEATURE_REGEXP:	Yes	
GSSAPI Kerberos 5 support:	Yes	
<pre>FEATURE_DEBUG (debug build, slow code):</pre>	No	
32bit Atomic operations supported:	Yes	
64bit Atomic operations supported:	Yes	
memory allocator:	system default	
Runtime Instrumentation (slow code):	No	
uuid support:	Yes	
Number of Bits in RainerScript integers	: 64	
See http://www.rsyslog.com for more information.		
[root@Cent0S7 ~]#		



2.3.3 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

[root@Cent0S7 ~]# vi /etc/rsyslog.conf

(2) 新增 imfile 輸入模組

\$ModLoad imfile # provides support for file logging

MODULES

The imjournal module bellow is now used as a message source instead of imuxsock. \$ModLoad imuxsock # provides support for local system logging (e.g. via logger command) \$ModLoad imjournal # provides access to the systemd journal #\$ModLoad imklog # reads kernel messages (the same are read from journald) #\$ModLoad immark # provides --MARK-- message capability \$ModLoad imfile # provides support for file logging

(3) 設定轉發 Apache log

Send Apache log to N-Reporter input(type="imfile" File=" /var/log/httpd/access-NReporter.log " Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File=" /var/log/httpd/error-NReporter.log " Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target=" 192.168.3.88 " Port="514" Protocol="udp")}

Send Apache log to N-Reporter input(type="imfile" File="/var/log/httpd/access-NReporter.log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File="/var/log/httpd/error-NReporter.log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target="192.168.8.4" Port="514" Protocol="udp")}

紅色文字部位請輸入 Apache 日誌路徑檔案和 N-Reporter 系統 IP address

(4) 重啟 rsyslog 服務和確認 rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog





2.4 CentOS 8

2.4.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

```
# httpd -v
[root@Cent0S8 ~]# httpd -v
Server version: Apache/2.4.37 (centos)
Server built: May 20 2021 04:33:06
[root@Cent0S8 ~]#
```

(2) 編輯 Apache 設定檔

vi /etc/httpd/conf/httpd.conf

[root@Cent0S8 ~]# vi /etc/httpd/conf/httpd.conf



```
(3) 新增 log 設定
```





(4) 重啟 Apache 服務和確認 Apache 服務狀態

systemctl restart httpd && systemctl status httpd
[root@CentOS8 ~]# systemctl restart httpd && systemctl status httpd
• httpd.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
Active: active (running) since Fri 2021-08-13 14:57:06 CST; 11ms ago
Docs: man:httpd.service(8)
Main PID: 9723 (httpd)
Status: "Configuration loaded."
Tasks: 1 (limit: 24009)
Memory: 2.7M
CGroup: /system.slice/httpd.service
____9723 /usr/sbin/httpd -DFOREGROUND
Aug 13 14:57:06 CentOS8.localdomain systemd[1]: Starting The Apache HTTP Server...
Aug 13 14:57:06 CentOS8.localdomain systemd[1]: Started The Apache HTTP Server.
[root@CentOS8 ~]#

2.4.2 更新 Rsyslog 版本

(1) 檢查 rsyslog 版本

<pre># rsyslogd -v</pre>	
[mast@Capt068]# rougland v	
[root@centus8 ~]# rsystoga -v	
rsyslogd 8.37.0-9.el8, compiled with:	00.01
PLATFORM:	x86_64-redhat-linux-gnu
PLATFORM (lsb_release -d):	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	Yes
<pre>FEATURE_DEBUG (debug build, slow code):</pre>	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
systemd support:	Yes
Number of Bits in RainerScript integers	: 64
See <pre>http://www.rsyslog.com for more information</pre>	
<pre>[root@Cent0S8 ~1#</pre>	

(2) 更新 rsyslog 套件

yum -y install rsyslog

Upgraded: rsyslog-8.1911.0-7.el8_4.2.x86_64

Complete! [root@Cent0S8 ~]#



(3) 檢查 rsyslog 版本

#rsyslogd -v

[root@CentOS8 ~]# rsyslogd -v			
rsyslogd 8.2410.0.master (aka 2024.10) compiled with:			
PLATFORM:	x86_64-redhat-linux-gnu		
PLATFORM (lsb_release -d):	—		
FEATURE_REGEXP:	Yes		
GSSAPI Kerberos 5 support:	Yes		
FEATURE_DEBUG (debug build, slow code):	No		
32bit Atomic operations supported:	Yes		
64bit Atomic operations supported:	Yes		
memory allocator:	system default		
Runtime Instrumentation (slow code):	No		
uuid support:	Yes		
systemd support:	Yes		
Config file:	/etc/rsyslog.conf		
PID file:	/var/run/syslogd.pid		
Number of Bits in RainerScript integers	: 64		
See https://www.rsyslog.com for more information	n.		

[root@CentOS8 ~]#



2.4.3 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

[root@Cent0S8 ~]# vi /etc/rsyslog.conf

(2) 新增 imfile 輸入模組

module(load="imfile") # provides support for file logging

MODULES

(3) 設定轉發 Apache log

Send Apache log to N-Reporter input(type="imfile" File=" /var/log/httpd/access-NReporter.log " Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File=" /var/log/httpd/error-NReporter.log " Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target=" 192.168.3.88 " Port="514" Protocol="udp")}

Send Apache log to N-Reporter

input(type="imfile" File="/var/log/httpd/access-NReporter.log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter")
input(type="imfile" File="/var/log/httpd/error-NReporter.log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter")
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.8.4" Port="514" Protocol="udp")}

紅色文字部位請輸入 Apache 日誌路徑檔案和 N-Reporter 系統 IP address

(4) 重啟 rsyslog 服務和確認 rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog





3 OracleLinux

3.1 OracleLinux 6

3.1.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

httpd -v

[root@OracleLinux6 ~]# httpd -v
Server version: Apache/2.2.15 (Unix)
Server built: May 1 2018 12:09:33
[root@OracleLinux6 ~]#

(2) 編輯 Apache 設定檔

vi /etc/httpd/conf/httpd.conf

[root@OracleLinux6 ~]# vi /etc/httpd/conf/httpd.conf



(3) 新增 log 設定

ErrorLog logs/error-NReporter.log <IfModule logio_module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> CustomLog "logs/access-NReporter.log" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be logged here. If you *do* define an error logfile for a <VirtualHost> ŧ # container, that host's errors will be logged there and not here. ń ErrorLog logs/error log ErrorLog logs/error-NReporter.log Ħ # LogLevel: Control the number of messages logged to the error log. # Possible values include: debug, info, notice, warn, error, crit, alert, emerg. # # LogLevel warn # The following directives define some format nicknames for use with a CustomLog directive (see below). # # LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common LogFormat "%{Referer}i -> %U" referer LogFormat "%{User-agent}i" agent # "combinedio" includes actual counts of actual bytes received (%I) and sent (%O); this # requires the mod_logio module to be loaded. #LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %O" combinedio <IfModule logio_module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> # The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <VirtualHost> # container, they will be logged here. Contrariwise, if you *do* # define per-<VirtualHost> access logfiles, transactions will be # logged therein and *not* in this file. #CustomLog logs/access_log common # If you would like to have separate agent and referer logfiles, uncomment # the following directives. #CustomLog logs/referer log referer #CustomLog logs/agent_log agent # For a single logfile with access, agent, and referer information (Combined Logfile Format), use the following directive: # đ CustomLog logs/access log combined CustomLog logs/access-NReporter.log nreporter



(4) 重啟 Apache 服務和確認 Apache 服務狀態

service httpd restart && service httpd status

<pre>[root@OracleLinux6 ~]# ser</pre>	vice httpd	restart	&& s	ervice	httpd	stat	tus
Stopping httpd:					[0K]
Starting httpd:					[0K]
httpd (pid 1856) is runnig	ng						
<pre>[root@OracleLinux6 ~]#</pre>							



3.1.2 更新 Rsyslog 8 版本

(1) 檢查 rsyslog 版本

# ISySIOGU V	
<pre>[root@OracleLinux6 ~]# rsyslogd -v rsyslogd 5.8.10, compiled with:</pre>	
FEATURE_REGEXP:	Ye
FEATURE_LARGEFILE:	No
GSSAPI Kerberos 5 support:	Ye
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Ye
64bit Atomic operations supported:	Ye
Runtime Instrumentation (slow code):	No
See http://www.rsyslog.com for more information.	
[root@Oraclelinux6 ~1#	

(2) 下載 rsyslog repository 設定檔

curl -o /etc/yum.repos.d/rsyslog.repo http://rpms.adiscon.com/v8-stable/rsyslog.repo [root@OracleLinux6 ~]# curl -o /etc/yum.repos.d/rsyslog.repo http://rpms.adiscon.com/v8-stable/rsyslog.repo % Total % Received % Xferd Average Speed Time Time Time Current Left Speed Dload Upload Total Spent 0 0 113 155 0 0:00:01 0:00:01 --:-- 1140 [root@OracleLinux6 ~]#

S

S

s

(3) 安裝 rsyslog 套件

yum -y install rsyslog
Dependency Installed:
 libestr.x86_64 0:0.1.11-1.el6
 libfastjson4.x86_64 0:0.99.8-1.el6
Updated:
 rsyslog.x86_64 0:8.2010.0-2.el6
Complete!
[root@OracleLinux6 ~]#



(4) 確認 rsyslog 版本

#rsyslogd -v			
[root@OracleLinux6 ~]# rsyslogd -v			
rsyslogd 8.2010.0 (aka 2020.10) compiled with:			
PLATFORM:	x86_64-redhat-linux-gnu		
<pre>PLATFORM (lsb_release -d):</pre>	<u>–</u>		
FEATURE_REGEXP:	Yes		
GSSAPI Kerberos 5 support:	No		
FEATURE_DEBUG (debug build, slow code):	No		
32bit Atomic operations supported:	Yes		
64bit Atomic operations supported:	Yes		
memory allocator:	system default		
Runtime Instrumentation (slow code):	No		
uuid support:	Yes		
systemd support:	No		
Config file:	/etc/rsyslog.conf		
PID file:	/var/run/syslogd.pid		
Number of Bits in RainerScript integers	: 64		
See https://www.rsyslog.com for more information.			

[root@OracleLinux6 ~]#



3.1.3 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

[root@OracleLinux6 ~]# vi /etc/rsyslog.conf

(2) 新增 imfile 輸入模組

\$ModLoad imfile # provides support for file logging

MODULES

module(load="imuxsock") # provides support for local system logging (e.g. via logger command) #module(load="imklog") # provides kernel logging support (previously done by rklogd) #module(load"immark") # provides --MARK-- message capability module(load="imfile") # provides support for file logging

(3) 註解 imjournal 模組

module(load="imjournal" StateFile="imjournal.state")

provides access to the systemd journal and file to store the position in the journal #module(load="imjournal" StateFile="imjournal.state")

(4) 註解 OmitLocalLogging

\$OmitLocalLogging on

Turn off message reception via local log socket; # local messages are retrieved through imjournal now. #\$OmitLocalLogging on

(5) 設定轉發 Apache log

Send Apache log to N-Reporter input(type="imfile" File=" orter.log " Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File=" rter.log " Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target=" 192.168.3.88 " Port="514" Protocol="udp")}

Send Apache log to N-Reporter input(type="imfile" File="/var/log/httpd/access-NReporter.log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File="/var/log/httpd/error-NReporter.log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target="192.168.8.4" Port="514" Protocol="udp")}

紅色文字部位請輸入 Apache 日誌路徑檔案和 N-Reporter 系統 IP address



(6) 重啟 rsyslog 服務和確認 rsyslog 服務正常

service rsyslog restart && service rsyslog status

<pre>[root@OracleLinux6 ~]# service rsyslog restart && service</pre>	rsyslog	status
Shutting down system logger:	[0K]
Starting system logger:	[0K]
rsyslogd (pid 1809) is running		
[root@OracleLinux6 ~]#		



3.2 OracleLinux 7

3.2.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

```
# httpd -v
```

```
[root@OracleLinux7 ~]# httpd -v
Server version: Apache/2.4.6 ()
Server built: Nov 10 2020 12:35:43
[root@OracleLinux7 ~]#
```

(2) 編輯 Apache 設定檔

vi /etc/httpd/conf/httpd.conf

[root@OracleLinux7 ~]# vi /etc/httpd/conf/httpd.conf



```
(3) 新增 log 設定
```

ErrorLog "logs/error-NReporter.log" ErrorLogFormat "[% {u} t] [%-m: %1] [pid %P:tid %T] %7F: %E: [client\ %a] %M% , \referer\ % {Referer} i"
<IfModule logio_module>
LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> CustomLog "logs/access-NReporter.log" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be # logged here. If you *do* define an error logfile for a <VirtualHost> container, that host's errors will be logged there and not here. # ErrorLog "logs/error log" ErrorLog "logs/error-NReporter.log" # LogLevel: Control the number of messages logged to the error_log. # Possible values include: debug, info, notice, warn, error, crit, # alert, emerg. Ħ LogLevel warn <IfModule log_config_module> # The following directives define some format nicknames for use with # a CustomLog directive (see below). # LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common ErrorLogFormat "[%{u}t] [%-m:%l] [pid %P:tid %T] %7F: %E: [client\ %a] %M% ,\ referer\ %{Referer}i" <IfModule logio_module> # You need to enable mod_logio.c to use %I and %O LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %0" combinedio LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> # # The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <VirtualHost> # container, they will be logged here. Contrariwise, if you *do*
define per-<VirtualHost> access logfiles, transactions will be # logged therein and *not* in this file. #CustomLog "logs/access_log" common # If you prefer a logfile with access, agent, and referer information # (Combined Logfile Format) you can use the following directive. CustomLog "logs/access log" combined CustomLog "logs/access-NReporter.log" nreporter /IfModule>



(4) 重啟 Apache 服務和確認 Apache 服務狀態

systemctl restart httpd && systemctl status httpd

[root@OracleLinux7 ~]# systemctl restart httpd && systemctl status httpd				
 httpd.service - The Apache HTTP Server 				
Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)				
Active: active (running) since Mon 2021-08-16 14:54:14 CST; 6ms ago				
Docs: man:httpd(8)				
<pre>man:apachectl(8)</pre>				
Main PID: 19131 (httpd)				
Status: "Processing requests"				
CGroup: /system.slice/httpd.service				
-19131 /usr/sbin/httpd -DF0REGROUND				
-19132 /usr/sbin/httpd -DF0REGR0UND				
-19133 /usr/sbin/httpd -DF0REGROUND				
-19134 /usr/sbin/httpd -DF0REGR0UND				
-19135 /usr/sbin/httpd -DF0REGROUND				
└─19136 /usr/sbin/httpd -DF0REGR0UND				
Aug 16 14:54:14 OracleLinux7.localdomain systemd[1]: Starting The Apache HTTP Server				
Aug 16 14:54:14 OracleLinux7.localdomain systemd[1]: Started The Apache HTTP Server.				
[root@OracleLinux7 ~]#				



3.2.2 更新 Rsyslog 版本

(1) 檢查 rsyslog 版本

#rsyslogd -v

[root@OracleLinux7 ~]# rsyslogd -v	
rsyslogd 8.24.0-38.el7, compiled with:	
PLATFORM:	x86_64-redhat-linux-gnu
<pre>PLATFORM (lsb_release -d):</pre>	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	Yes
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
Number of Bits in RainerScript integers	: 64
See http://www.rsyslog.com for more information	
[root@OracleLinux7 ~]#	

(2) 安裝 rsyslog 套件

yum -y install rsyslog
Updated:
 rsyslog.x86_64 0:8.24.0-57.0.1.el7_9.1
Complete!
[root@OracleLinux7 ~]#

(3) 檢查 rsyslog 版本

# ISYSIOgu Version	
<pre>[root@OracleLinux7 ~]# rsyslogd -v</pre>	
rsyslogd 8.24.0-5/.0.1.el/_9.1, compiled with:	
PLATFORM:	x86_64-redhat-linux-gnu
<pre>PLATFORM (lsb_release -d):</pre>	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	Yes
<pre>FEATURE_DEBUG (debug build, slow code):</pre>	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
Number of Bits in RainerScript integers	: 64
See http://www.rsyslog.com for more information	-
[root@OracleLinux7 ~]#	



3.2.3 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

[root@OracleLinux7 ~]# vi /etc/rsyslog.conf

(2) 新增 imfile 輸入模組

\$ModLoad imfile # provides support for file logging

MODULES

The imjournal module bellow is now used as a message source instead of imuxsock. \$ModLoad imuxsock # provides support for local system logging (e.g. via logger command) \$ModLoad imjournal # provides access to the systemd journal #\$ModLoad imklog # reads kernel messages (the same are read from journald) #\$ModLoad immark # provides --MARK-- message capability \$ModLoad imfile # provides support for file logging

(3) 設定轉發 Apache log

Send Apache log to N-Reporter input(type="imfile" File=" /var/log/httpd/access-NReporter.log " Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File=" /var/log/httpd/error-NReporter.log " Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target=" 192.168.3.88 " Port="514" Protocol="udp")}

Send Apache log to N-Reporter input(type="imfile" File="/var/log/httpd/access-NReporter.log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File="/var/log/httpd/error-NReporter.log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target="192.168.8.4" Port="514" Protocol="udp")}

紅色文字部位請輸入 Apache 日誌路徑檔案和 N-Reporter 系統 IP address

(4) 重啟 rsyslog 服務和確認 rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog




4 Debian 9

4.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

apache2 -v

```
root@Debian9:~# apache2 -v
Server version: Apache/2.4.25 (Debian)
Server built: 2021-10-02T13:27:55
root@Debian9:~#
```

(2) 編輯 Apache2 設定檔

vi /etc/apache2/apache2.conf

root@Debian9:~# vi /etc/apache2/apache2.conf

(3) 新增 ErrorLog 設定

ErrorLog \${APACHE_LOG_DIR}/error-NReporter.log

ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be # logged here. If you *do* define an error logfile for a <VirtualHost> # container, that host's errors will be logged there and not here.

ErrorLog \${APACHE_LOG_DIR}/error.log ErrorLog \${APACHE_LOG_DIR}/error-NReporter.log

(4) 新增 LogFormat 設定





(5) 編輯 000-default 設定檔

vi /etc/apache2/sites-enabled/000-default.conf

root@Debian9:~# vi /etc/apache2/sites-enabled/000-default.conf

(6) 新增 CustomLog 設定

CustomLog \${APACHE_LOG_DIR}/access-NReporter.log nreporter

ErrorLog \${APACHE_LOG_DIR}/error.log
CustomLog \${APACHE LOG DIR}/access.log combined
CustomLog \${APACHE_LOG_DIR}/access-NReporter.log nreporter

(7) 重啟 Apache 服務和確認 Apache 服務狀態

systemctl restart apache2 && systemctl status apache2

root@Debian9:~#



4.2 設定 Rsyslog 轉發 Apache log

(1) 檢查 rsyslog 版本

rsyslogd

" i bybioga" v	
root@Debian9:~# rsyslogd -v	
rsyslogd 8.24.0, compiled with:	
PLATFORM:	x86_64-pc-linux-gnu
<pre>PLATFORM (lsb_release -d):</pre>	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	Yes
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
Number of Bits in RainerScript integers	: 64
See http://www.rsyslog.com for more information	
root@Debian9:~#	

(2) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

root@Debian9:~# vi /etc/rsyslog.conf

(3) 新增 imfile 輸入模組

module(load="imfile") # provides support for file logging



(4) 設定轉發 Apache log



(5) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog

Oct 26 10:10:04 Debian9 systemd[1]: Starting System Logging Service... Oct 26 10:10:04 Debian9 liblogging-stdlog[1879]: [origin software="rsyslogd" swVersion="8.24.0" x-pid="1879" x-info="http://www.rsyslog.com"] start Oct 26 10:10:04 Debian9 systemd[1]: Started System Logging Service. root@Debian9:=#



5 Ubuntu 18

5.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

```
# apache2 -v
root@Ubuntu18:~# apache2 -v
Server version: Apache/2.4.29 (Ubuntu)
Server built: 2021-09-28T22:27:27
root@Ubuntu18:~#
```

(2) 編輯 Apache2 設定檔

vi /etc/apache2/apache2.conf

root@Ubuntu18:~# vi /etc/apache2/apache2.conf

(3) 新增 ErrorLog 設定

ErrorLog \${APACHE_LOG_DIR}/error-NReporter.log
ErrorLog: The location of the error log file.
If you do not specify an ErrorLog directive within a <VirtualHost>
container, error messages relating to that virtual host will be
logged here. If you *do* define an error logfile for a <VirtualHost>
container, that host's errors will be logged there and not here.
#
ErrorLog \${APACHE_LOG_DIR}/error.log
ErrorLog \${APACHE_LOG_DIR}/error-NReporter.log

(4) 新增 LogFormat 設定





(5) 編輯 000-default 設定檔

vi /etc/apache2/sites-enabled/000-default.conf

root@ubuntu18:~# vi /etc/apache2/sites-enabled/000-default.conf

(6) 新增 CustomLog 設定

CustomLog \${APACHE_LOG_DIR}/access-NReporter.log nreporter

ErrorLog \${APACHE_LOG_DIR}/error.log
CustomLog \${APACHE_LOG_DIR}/access.log combined
CustomLog \${APACHE_LOG_DIR}/access-NReporter.log nreporter

(7) 重啟 Apache 服務和確認 Apache 服務狀態

systemctl restart apache2 && systemctl status apache2





5.2 設定 Rsyslog 轉發 Apache log

(1) 檢查 rsyslog 版本

#rsyslogd -v	
root@Ubuntu18:~# rsyslogd -v	
rsyslogd 8.32.0, compiled with:	
PLATFORM:	x86_64-pc-linux-gnu
PLATFORM (lsb_release -d):	
FEATURE_REGEXP:	Yes
GSSAPI Kerberos 5 support:	Yes
FEATURE_DEBUG (debug build, slow code):	No
32bit Atomic operations supported:	Yes
64bit Atomic operations supported:	Yes
memory allocator:	system default
Runtime Instrumentation (slow code):	No
uuid support:	Yes
systemd support:	Yes
Number of Bits in RainerScript integers	: 64
See http://www.rsyslog.com for more information	
root@Ubuntu18:~#	

(2) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

root@Ubuntu18:~# vi /etc/rsyslog.conf

(3) 新增 imfile 輸入模組

<pre>module(load="imfile") # pro</pre>	ovides support for file logging
######################################	
<pre>module(load="imuxsock") #module(load="immark") module(load="imfile")</pre>	<pre># provides support for local system logging # providesMARK message capability # provides support for file logging</pre>

(4) 編輯 120-apache.conf 設定檔

vi /etc/rsyslog.d/120-apache.conf

root@Ubuntu18:~# vi /etc/rsyslog.d/120-apache.conf



(5) 設定轉發 Apache log



(6) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog root@Ubuntul8:-# systemctl restart rsyslog && systemctl status rsyslog • rsyslog.service - System Logging Service Loaded: loaded (/lib/system/rsyslog.service; enabled; vendor preset: enabled) Active: active (running) since Tue 2021-10-26 02:50:30 UTC; 5ms ago Docs: man:rsyslog(8) http://www.rsyslog.com/doc/ Main PID: 32667 (rsyslog) Tasks: 4 (limit: 2315) CGroup: /system.Slice/rsyslog.service L-32667 /usr/sbin/rsyslog.service L-32667 /usr/sbin/rsyslogd -n Oct 26 02:50:30 Ubuntul8 systemd[1]: Stapped System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: Starting System Logging Service. Oct 26 02:50:30 Ubuntul8 systemd[1]: rsyslogd's groupid changed to 106 Oct 26 02:50:30 Ubuntul8 rsyslogd[32667]: rsyslogd's userid changed to 102 Oct 26 02:50:30 Ubuntul8 rsyslogd[32667]: rsyslogd's userid changed to 102 Oct 26 02:50:30 Ubuntul8 rsyslogd[32667]: forgin software="rsyslogd" swVersion="8.32.0" x-pid="32667" x-info="http://www.rsyslog.com"] start root@Ubuntu8:-#



6 SUSE

6.1 SUSE 10

- 6.1.1 編輯 Apache 設定檔
- (1) 查看 Apache 版本

httpd2 -v

SUSE10:~ # httpd2 -v Server version: Apache/2.2.3 Server built: Apr 23 2008 22:51:07 SUSE10:~ #

(2) 編輯 mod_log_config 設定檔

vi /etc/apache2/mod_log_config.conf

SUSE10:~ # vi /etc/apache2/mod_log_config.conf

(3) 新增 log 設定

LogFormat "%h %l %u %t \"%r\" %>s %O \%I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter
<pre># To use %I and %O, you need to enable mod_logio <ifmodule mod_logio.c=""> LogFormat "%h %l %u %t \"%r\" %>s %b \ \"%{Referer}i\" \"%{User-Agent}i\" %T %O" combinedio LogFormat "%h %l %u %t \"%r\" %>s %O \ \%I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter</ifmodule></pre>

(4) 編輯 loadmodule 設定檔

vi /etc/apache2/sysconfig.d/loadmodule.conf

SUSE10:~ # vi /etc/apache2/sysconfig.d/loadmodule.conf



(5) 啟用 mod_logio.so 模組

LoadModule logio_module	/usr/lib64/apache2-prefork/mod_logio.so
LoadModule actions_module	/usr/lib64/apache2-prefork/mod_actions.so
LoadModule alias_module	/usr/lib64/apache2-prefork/mod_alias.so
LoadModule auth_basic_module	/usr/lib64/apache2-prefork/mod_auth_basic.so
LoadModule authn_file_module	/usr/lib64/apache2-prefork/mod_authn_file.so
LoadModule authz_host_module	/usr/lib64/apache2-prefork/mod_authz_host.so
LoadModule authz_groupfile_mod	dule /usr/lib64/apache2-prefork/mod_authz_groupfile.so
LoadModule authz_default_modul	<pre>le /usr/lib64/apache2-prefork/mod_authz_default.so</pre>
LoadModule authz_user_module	/usr/lib64/apache2-prefork/mod_authz_user.so
LoadModule authn_dbm_module	/usr/lib64/apache2-prefork/mod_authn_dbm.so
LoadModule autoindex_module	/usr/lib64/apache2-prefork/mod_autoindex.so
LoadModule cgi_module	/usr/lib64/apache2-prefork/mod_cgi.so
LoadModule dir module	/usr/lib64/apache2-prefork/mod_dir.so
LoadModule env_module	/usr/lib64/apache2-prefork/mod_env.so
LoadModule expires_module	/usr/lib64/apache2-prefork/mod_expires.so
LoadModule include_module	/usr/lib64/apache2-prefork/mod_include.so
LoadModule log_config_module	/usr/lib64/apache2-prefork/mod_log_config.so
LoadModule mime_module	/usr/lib64/apache2-prefork/mod_mime.so
LoadModule negotiation_module	/usr/lib64/apache2-prefork/mod_negotiation.so
LoadModule setenvif_module	/usr/lib64/apache2-prefork/mod_setenvif.so
LoadModule ssl_module	/usr/lib64/apache2-prefork/mod_ssl.so
LoadModule suexec_module	/usr/lib64/apache2-prefork/mod_suexec.so
LoadModule userdir module	/usr/lib64/apache2-prefork/mod_userdir.so
LoadModule logio_module	/usr/lib64/apache2-prefork/mod_logio.so
11	

(6) 編輯 apache2 設定檔

vi /etc/sysconfig/apache2

SUSE10:~ # vi /etc/sysconfig/apache2

(7) 載入 logio 模組

 $\label{eq:approx} \texttt{APACHE}_\texttt{MODULES}\texttt{=}\texttt{"actions alias auth}_\texttt{basic authn}_\texttt{core authn}_\texttt{file authz}_\texttt{host authz}_\texttt{groupfile}$ authz_core authz_user autoindex cgi dir env expires include log_config mime negotiation setenvif ssl socache_shmcb userdir reqtimeout] # apache's default installation # APACHE MODULES="authz_host actions alias asis auth autoindex cgi dir imap include log_config mime negotiation setenvif status userdir" # your settings APACHE MODULES="actions alias auth basic authn_file authz_host authz_groupfile authz_default authz_user authn_dbm autoindex cgi dir env expires include log_config mime negotiation set envif ssl suexec userdir php5 logio*

(8) 編輯 httpd 設定檔

vi /etc/apache2/httpd.conf

SUSE10:~ # vi /etc/apache2/httpd.conf



(9) 設定 CostomLog 和 ErrorLog



(10) 重啟 Apache 服務和確認 Apache 服務狀態

service apache2 restart && service apache2 status

SUSE10:~ # service apache2 restart && service apache2 statusSyntax OKShutting down httpd2 (waiting for all children to terminate)Starting httpd2 (prefork)Checking for httpd2:SUSE10:~ #



6.1.2 設定 syslog-ng 轉發 Apache log

(1) 檢查 syslog-ng 版本

syslog-ng -v SUSE10:~ # syslog-ng -v binding fd 3, unixaddr: /dev/log SUSE10:~

(2) 編輯 syslog-ng 設定檔

vi /etc/syslog-ng/syslog-ng.conf

SUSE10:~ # vi /etc/syslog-ng/syslog-ng.conf

(3) 設定 Facility local6 £ 7.

-16

TILCEL I.		~ T T	ity(io(al0), , ,
# # Filte #	er definitions	6	
filter	f_iptables	{	<pre>facility(kern) and match("IN=") and match("OUT="); };</pre>
filter	f_console	{	<pre>level(warn) and facility(kern) and not filter(f_iptables) or level(err) and not facility(authpriv); };</pre>
filter	f newsnotice	{	<pre>level(notice) and facility(news); };</pre>
filter	f_newscrit	{	<pre>level(crit) and facility(news); };</pre>
filter	fnewserr	{	<pre>level(err) and facility(news); };</pre>
filter	f_news	{	<pre>facility(news); };</pre>
filter	f mailinfo	{	<pre>level(info) and facility(mail); };</pre>
filter	f mailwarn	{	<pre>level(warn) and facility(mail); };</pre>
filter	f_mailerr	{	<pre>level(err, crit) and facility(mail); };</pre>
filter	f_mail	{	<pre>facility(mail); };</pre>
filter	f_cron	{	<pre>facility(cron); };</pre>
filter	f_local6	{	<pre>facility(local6); };</pre>
filter	f_local	{	<pre>facility(local0, local1, local2, local3,</pre>
			<pre>local4, local5, local6, local7); }:</pre>



(4) 設定轉發 Apache log



(5) 重啟 Syslog-ng 服務和確認 Syslog-ng 服務正常

service syslog restart && service syslog status

SUSE10:~	# service syslog restart && service syslog status	
Shutting	down syslog services	done
Starting	syslog services	done
Checking	for service syslog:	running
SUSE10:~	#	



6.2 SUSE 15

6.2.1 編輯 Apache 設定檔

(1) 編輯 mod_log_config 設定檔

vi /etc/apache2/mod_log_config.conf

suse15:~ # vi /etc/apache2/mod_log_config.conf

(2) 新增 log 設定

<pre>ErrorLogFormat "[%{u}t] [%-m:%1] [pid %P:tid %T] %7F:</pre>	%E: [client\%a] %M% ,\referer\%{Referer}i" erer}i\" \"%{User-Agent}i\"" nreporter
# # Format string:	Nickname:
# LogFormat "%h %l %u %t \"%r\" %>s %b" LogFormat "%v %h %l %u %t \"%r\" %>s %b" LogFormat "%{Referer}i -> %U" LogFormat "%{User-agent}i" LogFormat "%{User-agent}i"	common vhost_common referer agent
LogFormat %n %1 %u %t \ %r\ %>s %b \ \"%{Referer}i\" \"%{User-Agent}i\"" LogFormat "%v %h %] %u %t \"%r\" %>s %b \ \"%{Referer}i\" \"%{User-Agent}i\""	combined vhost_combined
ErrorLogFormat "[%{u}t] [%-m:%1] [pid %P:tid %T] %7F: %	E: [client\ %a] %M% ,\ referer\ %{Referer}i"
# To use %I and %O, you need to enable mod_logio <ifmodule mod_logio.c=""> LogFormat "%h %l %u %t \"%r\" %>s %b \</ifmodule>	
\"%{Referer}i\" \"%{User-Agent}i\" %I %O" LogFormat "%h %] %u %t \"%r\" %>s %O %I %T %b \"%{Refer	combinedio er}i\" \"%{User-Agent}i\"" nreporter
ĨtModule	

(3) 編輯 loadmodule 設定檔

vi /etc/apache2/loadmodule.conf

suse15:~ # vi /etc/apache2/loadmodule.conf



(4) 啟用 mod_logio.so 模組

LoadModule	logio_module	/usr/lib64/apache2-prefork/mod_logio.so
Londular du lo	actions module	/usy /lib64 /anashad profer / mod astions so
LoadModule	actions_module	/usr/11b64/apache2-prefork/mod_actions.so
LoadModule	arras_modure	/usr/11b64/apache2-prefork/mod_allas.so
LoadModule	auth_basic_module	/usr/lib04/apache2-prefork/mod_auth_basic.so
LoadModule	authn_file_module	/usr/lib64/apache2-prefork/mod_authn_file.so
LoadModule	authz_host_module	/usr/lib64/apache2-prefork/mod_authz_host.so
LoadModule	authz_groupfile_module	/usr/lib64/apache2-prefork/mod_authz_groupfile.so
LoadModule	authz_user_module	/usr/lib64/apache2-prefork/mod_authz_user.so
LoadModule	autoindex_module	/usr/lib64/apache2-prefork/mod_autoindex.so
LoadModule	cgi_module	/usr/lib64/apache2-prefork/mod_cgi.so
LoadModule	dir_module	/usr/lib64/apache2-prefork/mod_dir.so
LoadModule	en∨_module	/usr/lib64/apache2-prefork/mod_env.so
LoadModule	expires_module	/usr/lib64/apache2-prefork/mod_expires.so
LoadModule	include_module	/usr/lib64/apache2-prefork/mod_include.so
LoadModule	log_config_module	/usr/lib64/apache2-prefork/mod_log_config.so
LoadModule	mime_module	/usr/lib64/apache2-prefork/mod_mime.so
LoadModule	negotiation_module	/usr/lib64/apache2-prefork/mod_negotiation.so
LoadModule	setenvif_module	/usr/lib64/apache2-prefork/mod_setenvif.so
LoadModule	ssl_module	/usr/lib64/apache2-prefork/mod_ssl.so
LoadModule	socache_shmcb_module	/usr/lib64/apache2-prefork/mod_socache_shmcb.so
LoadModule	userdir_module	/usr/lib64/apache2-prefork/mod_userdir.so
LoadModule	reqtimeout_module	/usr/lib64/apache2-prefork/mod_regtimeout.so
LoadModule	authn_core_module	/usr/lib64/apache2-prefork/mod_authn_core.so
LoadModule	authz core module	/usr/lib64/apache2-prefork/mod_authz_core.so
LoadModule	logio_module	/usr/lib64/apache2-prefork/mod_logio.so
~		

(5) 編輯 apache2 設定檔

vi /etc/sysconfig/apache2

suse15:~ # vi /etc/sysconfig/apache2

(6) 載入 logio 模組



(7) 編輯 httpd 設定檔

vi /etc/apache2/httpd.conf

suse15:~ # vi /etc/apache2/httpd.conf



(8) 設定 CostomLog

ErrorLog /var/log/apache2/error-NReporter.log CustomLog /var/log/apache2/access-NReporter.log nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be # logged here. If you *do* define an error logfile for a <VirtualHost> # container, that host's errors will be logged there and not here. ErrorLog /var/log/apache2/error-NReporter.log CustomLog /var/log/apache2/access-NReporter.log nreporter

(9) 重啟 Apache 服務和確認 Apache 服務狀態

systemctl restart httpd && systemctl status httpd * apache2.service - the Apache Webserver Loaded: loaded (/usr/lib/system/apache2.service; enabled; vendor preset: disabled) Active: active (running) since Mon 2019-03-04 14;51:13 CST, fms ago Process: 11499 ExecStop=/usr/sbin/stat_apache2 -DSYSTEMD -DFOREGROUND -k graceful-stop (code=exited, status=0/SUCCESS) Main PID: 11507 (httpd=prefork) Status: "Processing requests..." Tasks: 6 CGroup: /system.slice/apache2.service - DSYSCONFIG - C Pidrile /var/run/httpd.pid - C Include /etc/apache2/sysconfig.d//loadmodule.conf -C Include /etc/apache2/sysco

Mar 04 14:51:13 suse15 systemd[1]: Starting The Apache Webserver..



6.2.2 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

suse15:~ # vi /etc/rsyslog.conf

(2) 新增 imfile 輸入模組

provides support for file logging
\$ModLoad imfile



(3) 設定轉發 Apache log

Send Apache log to N-Reporter input(type="imfile" File=" /var/log/httpd/access-NReporter.log " Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File=" /var/log/httpd/error-NReporter.log " Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target=" 192.168.3.88 " Port="514" Protocol="udp")}

Send Apache log to N-Reporter input(type="imfile" File="/var/log/httpd/access-NReporter.log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter") input(type="imfile" File="/var/log/httpd/error-NReporter.log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter") ruleset(name="nreporter"){action(type="omfwd" Target="192.168.8.4" Port="514" Protocol="udp")}

紅色文字部位請輸入 Apache 日誌路徑檔案和 N-Reporter 系統 IP address

(4) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog





7 Solaris 11

7.1 編輯 Apache 設定檔

(1) 編輯 httpd 設定檔

vi /etc/apache2/2.4/httpd.conf

root@Solaris11:~# vi /etc/apache2/2.4/httpd.conf

(2) 啟用 mod_logio.so 模組

LoadModule logio_module libexec/mod_logio.so

#LoadModule log_debug_module libexec/mod_log_debug.so
#LoadModule log_forensic_module libexec/mod_log_forensic.so
LoadModule logio_module libexec/mod_logio.so
#LoadModule lua_module libexec/mod_lua.so
LoadModule env_module libexec/mod_env.so



(3) 設定 CostomLog 和 ErrorLog

ErrorLog "/var/apache2/2.4/logs/error_log' ErrorLog "|/usr/bin/logger -t apache -p local6.error" ErrorLogFormat "[%{u}t] [%-m:%1] [pid %P:tid %T] %7F: %E: [client\%a] %M% ,\referer\%{Referer}i" <IfModule logio_module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\" nreporter </IfModule> CustomLog "|/usr/bin/logger -t apache -p local6.info" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> container, error messages relating to that virtual host will be # logged here. If you *do* define an error logfile for a <VirtualHost> # container, that host's errors will be logged there and not here. ErrorLog "/var/apache2/2.4/logs/error log" ErrorLog "| /usr/bin/logger -t apache -p local6.error" Ħ LogLevel: Control the number of messages logged to the error_log. Possible values include: debug, info, notice, warn, error, crit, ü # alert, emerg. LogLevel warn <IfModule log_config_module> # The following directives define some format nicknames for use with # a CustomLog directive (see below). LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common =rrorLogFormat "[%{u}t] [%-m:%l] [pid %P:tid %T] %7F: %E: [client\ %a] %M% ,\ referer\ %{Referer}i <IfModule logio_module> # You need to enable mod_logio.c to use %I and %O LogFormat "%h %l %u %t \["]%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %0" combinedio LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\" nreporter </IfModule> # The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <VirtualHost> # container, they will be logged here. Contrariwise, if you *do* # define per-<VirtualHost> access logfiles, transactions will be # logged therein and *not* in this file. CustomLog "/var/apache2/2.4/logs/access log" common CustomLog "| /usr/bin/logger -t apache -p local6.info" nreporter ## # If you prefer a logfile with access, agent, and referer information (Combined Logfile Format) you can use the following directive. # #CustomLog "/var/apache2/2.4/logs/access_log" combined /IfModule>



(4) 重啟 Apache 服務和確認 Apache 服務狀態

<pre># svcadm -v restart # svcs -a grep apa</pre>	http:apache24 .che
root@Solaris11:	~# svcadm -v restart http:apache24
Action restart	<pre>set for svc:/network/http:apache24.</pre>
root@Solaris11:	~# svcs -a grep apache
disabled	22:53:43 svc:/system/apache-stats-24:default
online	23:15:10 svc:/network/http:apache24
root@Solaris11:	~#



7.2 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

root@Solaris11:~# vi /etc/rsyslog.conf

(2) 設定轉發 Apache log

紅色文字部位請輸入 N-Reporter 系統 IP address

(3) 停用 system-log:default 和啟用 system-log:rsyslog 和重啟 system-log:rsyslog 和確認 system-log 狀態

svcadm -v restart system-log:rsyslog # svcs -a | grep system-log root@Solaris11:~# svcadm -v restart system-log:rsyslog Action restart set for svc:/system/system-log:rsyslog. root@Solaris11:~# svcs -a | grep system-log disabled 22:53:42 svc:/system/system-log:default online 23:35:41 svc:/system/system-log:rsyslog root@Solaris11:~#



8 FreeBSD 12

8.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

```
# httpd -version
root@FreeBSD12:~ # httpd -version
Server version: Apache/2.4.51 (FreeBSD)
Server built: unknown
root@FreeBSD12:~ #
```

(2) 編輯 Apache 設定檔

vi /usr/local/etc/apache24/httpd.conf

root@FreeBSD12:~ # vi /usr/local/etc/apache24/httpd.conf

(3) 啟用 mod_logio.so 模組

LoadModule logio_module libexec/apache24/mod_logio.so

#LoadModule log_debug_module libexec/apache24/mod_log_debug.so
#LoadModule log forensic module libexec/apache24/mod_logio.so
LoadModule env_module libexec/apache24/mod_env.so
#LoadModule mime_magic_module libexec/apache24/mod_mime_magic.so



```
(4) 新增 log 設定
```

ErrorLog "|/usr/bin/logger -t apache -p local6.error" ErrorLogFormat "[%{u}t] [%-m:%1] [pid %P:tid %T] %7F: %E: [client\%a] %M% ,\referer\%{Referer}i"
<IfModule logio_module> LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\" nreporter </IfModule> CustomLog "|/usr/bin/logger -t apache -p local6.info" nreporter # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <VirtualHost> # container, error messages relating to that virtual host will be # logged here. If you *do* define an error logfile for a <VirtualHost> # container, that host's errors will be logged there and not here. # ErrorLog "/var/log/httpd-error.log" ErrorLog "|/usr/bin/logger -t apache -p local6.error" # LogLevel: Control the number of messages logged to the error log. # Possible values include: debug, info, notice, warn, error, crit, # alert, emerg. Ħ LogLevel warn <IfModule log_config_module> # The following directives define some format nicknames for use with # a CustomLog directive (see below). LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined LogFormat "%h %l %u %t \"%r\" %>s %b" common ErrorLogFormat "[%{u}t] [%-m:%l] [pid %P:tid %T] %7F: %E: [client\ %a] %M% ,\ referer\ %{Referer}i" <IfModule logio module> # You need to enable mod_logio.c to use %I and %O LogFormat "%h %l %u %t \["]%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %0" combinedio LogFormat "%h %l %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </IfModule> # # The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <VirtualHost> # container, they will be logged here. Contrariwise, if you *do* # define per-<VirtualHost> access logfiles, transactions will be # logged therein and *not* in this file. CustomLog "/var/log/httpd-access.log" common CustomLog "|/usr/bin/logger -t apache -p local6.info" nreporter # If you prefer a logfile with access, agent, and referer information (Combined Logfile Format) you can use the following directive. # #CustomLog "/var/log/httpd-access.log" combined /IfModule>



(5) 重啟 Apache 服務和確認 Apache 服務狀態

service apache24 onerestart && service apache24 onestatus

root@FreeBSD12:~ # service apache24 onerestart && service apache24 onestatus
Performing sanity check on apache24 configuration:
Syntax OK
Stopping apache24.
Waiting for PIDS: 1101.
Performing sanity check on apache24 configuration:
Syntax OK
Starting apache24.
apache24 is running as pid 1130.
root@FreeBSD12:~ #



8.2 設定 Syslog 轉發 Apache log

(1) 編輯 syslog 設定檔

vi /etc/syslog.conf

root@FreeBSD12:~ # vi /etc/syslog.conf

(2) 設定轉發 Apache log

<pre># Send Apache log to N-Reporter local6.*</pre>	0 192.168.3.88
<pre># Send Apache log to N-Reporter local6.*</pre>	@192.168.8.4

紅色文字部位請輸入 N-Reporter 系統 IP address

* 分隔符號使用 [tab] 鍵

(3) 重啟 syslogd 服務和確認 syslogd 服務正常

service syslogd onerestart && service syslogd onestatus

root@FreeBSD12:~ # service syslogd onerestart && service syslogd onestatus
Stopping syslogd.
Waiting for PIDS: 1161.
Starting syslogd.
syslogd is running as pid 1192.
root@FreeBSD12:~ #



9 Windows 2016

9.1 NXLog

9.1.1 NXLog 安装

(1) 下載 NXLog

前往網址 https://nxlog.co/products/nxlog-community-edition/download

下載網址最新版 nxlog-ce-x.x.xxxx.msi, 範例: nxlog-ce-3.2.2329.msi

Windows x86-64 nxlog-ce-3.2.2329.msi

(2) 開啟 [Windows PowerShell]



(3) 安裝 NXLog 軟體

PS C: \> Install-Package	-Name . \nxlog-ce	e-3.2.2329.msi -	-Force		
▶ 系統管理員: Windows Power	rShell (x86)			_	×
PS C:\> Install-Package -Name .\nxlog-ce-3.2.2329.msi -Force					^
Name	Version	Source	Summary		
NXLog-CE	3.2.2329	C:\nxlog-ce-	3		
PS C:\>					

紅色文字部位請輸入 NXLog 軟體路徑和檔案



9.1.2 NXLog 設定檔下載

(1) 開啟 [Windows PowerShell]



(2) 下載 Apache 的 NXLog 範本設定檔並覆蓋 NXLog 設定檔

下載連結 http://www.npartnertech.com/download/tech/nxlog_WinApache.conf

PS C:\> Invoke-WebRequest -Uri 'http://www.npartnertech.com/download/tech/nxlog_Wi -OutFile 'C:\Program Files\nxlog\conf\nxlog.conf'	nApach	ie.conf	
≥ 系統管理員: Windows PowerShell (x86)	_		×
PS C:\> Invoke-WebRequest -Uri 'http://www.npartnertech.com/download/tech/nxlog_WinApache. 'C:\Program Files\nxlog\conf\nxlog.conf'	conf'	-OutFil	e 🔨

本文件範例是 NXLog 64bit 版本,若是 NXLog 32bit 版本,紅色文字部位請改以下設定 'C: \Program Files (x86)

\nxlog\conf\nxlog.conf'



9.1.3 NXLog 設定檔

```
## Please set the ROOT to the folder your nxlog was installed into, otherwise it will not start.
define NCloud 192.168.3.88
define ApachePath C:\Apache24\logs
define ROOT C:\Program Files\nxlog
Moduledir %ROOT%\modules
CacheDir %ROOT%\data
Pidfile %ROOT%\data
SpoolDir %ROOT%\data
 LogFile %ROOT%\data\nxlog.log
 ## Load the modules needed by the outputs
 <Extension syslog>
      Module
                  xm_syslog
 </Extension>
 ## For Apache access log file use the following:
<Input in_accesslog>
                 im_file
      Module
                '%ApachePath%\access-NReporter.log'
      File
      Exec
               $SyslogSeverityValue = 6;
      SavePos Tr
ReadFromLast
                   True
                          True
 </Input>
 ## For Apache error log file use the following:
 '%ApachePath%\error-NReporter.log'
      File
                $SyslogSeverityValue = 3;
      Exec
      SavePos Tr
ReadFromLast
                   True
                          True
 </Input>
 <Output out_apachelog>
      Module
                 om_udp
               %NCloud%
514
$SyslogSeverityValue = 22;
$SourceName = 'apache';
      Host
      Port
Exec
      Exec
                to_syslog_bsd();
      Exec
 </Output>
 <Route apachelog>
      Path2emin_accesslog, in_errorlog => out_eventlog
 </Route>
藍色文字部位請輸入 N-Reporter 系統 IP address
```

define NCloud 192.168.8.4

本文件範例環境為 64bit 作業系統,若作業系統環境為 32bit 請改為以下設定

define ROOT C:\Program Files (x86)\nxlog

藍色文字部位請輸入 Apache 日誌路徑檔案

File '%ApachePath%\access-NReporter.log' File '%ApachePath%\error-NReporter.log'

修改設定檔內容後需"另存新檔"覆蓋原本檔案·1.存檔類型請選擇"所有檔案 (*.*)"·2. 編碼請選擇"UTF-8"以免編碼錯 誤造成服務無法正常開啟。

檔案名稱(N):	nxlog.conf			~
存檔類型(T):	所有檔案 (*.*) 1			~
截資料夾	編碼(E)	ANSI ~	存檔(S) 取消	
		Unicode Unicode big endian UTF-8 2		

9.1.4 NXLog 設定檔下載

(1) 開啟 [Windows PowerShell]



(2) 啟動 NXLog 服務,檢查 NXLog 服務狀態和確認 NXLog 記錄沒有錯誤訊息

```
PS C:\> Start-Service -Name nxlog
PS C:\> Get-Service -Name nxlog | Select-Object -Property Name,Status,StartType
PS C:\> Get-Content 'C:\Program Files\nxlog\data\nxlog.log'
```



本文件範例是 NXLog 64bit 版本,若是 NXLog 32bit 版本,紅色文字部位請改以下設定 'C: \Program Files (x86)

\nxlog\conf\nxlog.conf'



9.2 Apache

9.2.1 編輯 Apache 設定檔

(1) 編輯 httpd.conf 設定檔, 啟用 mod_logio.so 模組

Logio_module logio_module modules/mod_logio.so

#LoadModule lbmethod_heartbeat_module modules/mod_lbmethod_heartbeat.so
#LoadModule ldap module modules/mod_ldap.so
LoadModule log_config_module modules/mod_log_config.so
#LoadModule log_debug_module modules/mod_log_debug.so



(2) 新增 log 設定

<pre>ErrorLog "logs/error-NReporter.log" ErrorLogFormat "[%{u}t] [%-m:%1] [pid %P:tid %T] %7F: %E: [client\%a] %M% ,\referer\%{Referer}i" <ifmodule logio_module=""> LogFormat "%h %1 %u %t \"%r\" %>s %0 %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter </ifmodule> CustomLog "logs/access-NReporter.log" nreporter</pre>
<pre># # # ErrorLog: The location of the error log file. # If you do not specify an ErrorLog directive within a <virtualhost> # container, error messages relating to that virtual host will be # logged here. If you * do* define an error logfile for a <virtualhost> # container, that host's errors will be logged there and not here. # ErrorLog "logs/error.log" ErrorLog "logs/error-NReporter.log"</virtualhost></virtualhost></pre>
#·LogLevel:·Control·the·number·of·messages·logged·to·the·error_log. #·Possible·values·include:·debug.·info.·notice.·warn.·error.·crit.
alert, emerg.
LogLevel·warn
<ifmodule.log_config_module></ifmodule.log_config_module>
<pre># The following directives define some format nicknames for use with# a CustomLog directive (see below)#</pre>
<pre>LogFormat "%h %l %u %t \ "%r\" %>s %b \ "%{Referer}i\" \ "%{User-Agent}i\"" combined LogFormat "%h %l %u %t \ "%r\" %>s %b" common """"""""""""""""""""""""""""""""""</pre>
trrorLogFormat "[%{u}t] [%-m:%1] [pid %P:tid %1] %/F: %t: [client\ %a] %M% ,\ referer\ %{Keferer}1"
···· <ifmodule logio_module=""></ifmodule>
<pre># You need to enable mod_logio.c to use %I and %0 LogFormat "%h %1 %u %t \ "%r\" %>s %b \ "%{Referer}i\" \ "%{User-Agent}i\" %I %0" combinedio LogFormat "%h %1 %u %t \ "%r\" %>s %0 %I %T %b \ "%{Referer}i\" \ "%{User-Agent}i\" " nreporter LogFormat - "%h %1 %u %t \ "%r\" %>s %0 %I %T %b \ "%{Referer}i\" \ "%{User-Agent}i\" " nreporter (/IfModule></pre>
· · · · #
<pre># The location and format of the access logfile (Common Logfile Format). # If you do not define any access logfiles within a <virtualhost> # access the will be located base. Contractides if you that</virtualhost></pre>
container, they will be logged here. Contrariwise, it you "do" # define per- <virtualhost> access logfiles, transactions will be</virtualhost>
····#·logged·therein·and·*not*·in·this·file.
CustomLog."logs/access.log".common
CustomLog "logs/access-NReporter.log"-nreporter
If you prefer a logfile with access agent and referen information
(Combined Logfile Format) you can use the following directive.
#CustomLog "logs/access.log" combined



9.2.2 重啟 Apache 服務

(1) 開啟 [Windows PowerShell]



(2) 重啟 Apache 服務和確認 Apache 服務狀態





10 N-Reporter

(1) 新增 Apache 設備

[設備管理] -> [設備樹狀圖] -> 點選 [新增]





(2) 選擇設備種類

選擇 [Application/ DB/ OS/ Server]-> 點選 [引導模式]





(3) 設備基本設定

輸入設備名稱和IP->Syslog 資料格式選擇 [Apache]-> 點選 [下一步]

設備基本設定			^
設備名稱 *			
Apache_192.168.3.88			
P *			
192.168.3.88			
所屬領域 *			
Global			~
Syslog 資料格式 🕄			
Apache			~
自定義資料格式 🕄 🕇 🕂			
未啟用			~
SNMP Model ()			
未啟用			~
Web 監控 🕕			
啟用網頁監控功能			



(4) Syslog 相關設定

Facility 選擇 [(22) local use 6 (local6)]-> 點選 [下一步]

(若勾選 [Raw Data 保留] · 則 [事件查詢] 顯示 Raw Data 資訊)

Sysiog 相關設定		^
Facility ()		
(22) local use 6 (local6)		~
編碼方式		
UTF-8		~
Syslog 正規化資料保留天數上限 🕄		
 ✔ Raw Data 保留 ▲ 本設備於分時監控報表啟動 Syslog 轉發時,採用 Raw Data 格式 轉發方式將使用來源設備的 IP 		
上一步	下一步	取消


(5) 其他

設備 Icon 選擇 [Host]-> 接收狀態選擇 [啟用]-> 點選 [下一步]->[確認]

新増設備 - 其	ė						
其它							^
設備 Icon							
Host							~
備註 🛙							
特殊格式:	[key]="value"	,可匯出成	自訂名稱欄(7 °			
經緯度							
緯度		經度					
接收狀態							
					上一步	下一步	取消

是否啟用預設報表·將套用置相同廠牌型號設備-> 點擊 [否]





