



N-Partner



如何設定 Apache

V003

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前言

本文件描述如何使用 N-Reporter 接收 Apache syslog

測試環境為 Red Hat / CentOS / Debian / Ubuntu / SUSE / Solaris 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>

1. Red Hat 7

1.1 編輯 Apache 設定檔

(1) 編輯 Apache 設定檔

```
# vi /etc/httpd/conf/httpd.conf
```

```
[root@rhe17 ~]# vi /etc/httpd/conf/httpd.conf
```

(2) 新增 log 設定

```
ErrorLogFormat "[%{u}t] [%-m:%l] [pid %P:tid %T] %7F: %E: [client\ %a] %M% ,\ referer\ %{Referer}i"
```

```
<IfModule logio_module>
```

```
LogFormat "%h %l %u %t \"%r\" %>s %O %l %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"

#
# 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>
#
# 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 %O %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>
```

(3) 重啟 Apache 服務和確認 Apache 服務狀態

```
# systemctl restart httpd && systemctl status httpd
```

```
[root@rhel7 ~]# systemctl restart httpd && systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Mon 2019-03-04 11:56:25 CST; 188ms ago
     Docs: man:httpd(8)
           man:apachectl(8)
  Process: 29603 ExecStop=/bin/kill -WINCH ${MAINPID} (code=exited, status=0/SUCCESS)
  Process: 28308 ExecReload=/usr/sbin/httpd $OPTIONS -k graceful (code=exited, status=0/SUCCESS)
 Main PID: 29607 (httpd)
   Status: "Processing requests..."
    CGroup: /system.slice/httpd.service
            └─29607 /usr/sbin/httpd -DFOREGROUND
              └─29608 /usr/sbin/httpd -DFOREGROUND
                └─29609 /usr/sbin/httpd -DFOREGROUND
                  └─29610 /usr/sbin/httpd -DFOREGROUND
                    └─29611 /usr/sbin/httpd -DFOREGROUND
                      └─29612 /usr/sbin/httpd -DFOREGROUND

Mar 04 11:56:24 rhel7.npartner.local systemd[1]: Starting The Apache HTTP Server...
Mar 04 11:56:25 rhel7.npartner.local systemd[1]: Started The Apache HTTP Server.
```

1.2 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

```
# vi /etc/rsyslog.conf
```

```
[root@rhe17 ~]# vi /etc/rsyslog.conf
```

```
$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
```

(2) 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_log" Tag="apache" Severity="warning" Facility="local6"
```

```
Ruleset="nreporter")
```

```
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.2.69" 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_log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter")  
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.2.69" Port="514" Protocol="udp")}
```

紅色文字部位請輸入 N-Reporter 系統 IP address

```
Target="192.168.2.69"
```

紅色文字請輸入 Apache 日誌路徑檔案

```
File="/var/log/httpd/access-NReporter_log"
```

```
File="/var/log/httpd/error_log"
```



(3) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog

```
[root@rhel7 ~]# 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 Mon 2019-03-04 13:40:27 CST; 69ms ago
     Docs: man:rsyslogd(8)
           http://www.rsyslog.com/doc/
   Main PID: 29673 (rsyslogd)
   CGroup: /system.slice/rsyslog.service
           └─29673 /usr/sbin/rsyslogd -n

Mar 04 13:40:26 rhel7.npartner.local systemd[1]: Starting System Logging Service...
Mar 04 13:40:27 rhel7.npartner.local rsyslogd[29673]: [origin software="rsyslogd" swVersion="8.24.0-34.e17" x-pid="29673" x-info="http://www.rsyslog.com"] start
Mar 04 13:40:27 rhel7.npartner.local systemd[1]: Started System Logging Service.
```


2. CentOS

2.1 CentOS 6

2.1.1 編輯 Apache 設定檔

(1) 查看 Apache 版本

httpd -v

```
[root@centos6 ~]# httpd -v
Server version: Apache/2.4.34 (Red Hat)
Server built:   Nov 16 2018 12:58:22
```

(2) 編輯 Apache 設定檔

vi /opt/rh/httpd24/root/etc/httpd/conf/httpd.conf

```
[root@centos6 ~]# vi /opt/rh/httpd24/root/etc/httpd/conf/httpd.conf
```

(3) 新增 log 設定

```
ErrorLogFormat "[%{u}t] [%-m:%l] [pid %P:tid %T] %7F: %E: [client\ %a] %M% ,\ referer\ %{Referer}i"
```

```
<IfModule logio_module>
```

```
LogFormat "%h %l %u %t \"%r\" %>s %O %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"

#
# 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>
#
# 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 %O %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

```
# service httpd restart && service httpd status
```

```
[root@centos6 ~]# service httpd restart && service httpd status
Stopping httpd:          [ OK ]
Starting httpd:          [ OK ]
httpd (pid 1698) is running...
```

2.1.2 更新 Rsyslog 版本

yum shell

```
[root@centos6 ~]# yum shell
Loaded plugins: fastestmirror
Setting up Yum Shell
>
```

> install rsyslog7

> remove rsyslog

```
> install rsyslog7
Setting up Install Process
Loading mirror speeds from cached hostfile
* base: ftp.ksu.edu.tw
* epel: fedora.cs.nctu.edu.tw
* extras: ftp.ksu.edu.tw
* updates: ftp.ksu.edu.tw
> remove rsyslog
Setting up Remove Process
>
```

> run -> y

```
> run
Running transaction check
--> Package rsyslog.x86_64 0:5.8.10-12.e16 will be erased
--> Package rsyslog7.x86_64 0:7.4.10-7.e16 will be installed
--> Processing Dependency: libjson-c.so.2()(64bit) for package: rsyslog7-7.4.10-7.e16.x86_64
--> Processing Dependency: libestr.so.0()(64bit) for package: rsyslog7-7.4.10-7.e16.x86_64
--> Running transaction check
--> Package json-c.x86_64 0:0.11-13.e16 will be installed
--> Package libestr.x86_64 0:0.1.9-2.e16 will be installed
--> Finished Dependency Resolution
```

Package	Arch	Version	Repository	Size
Installing: rsyslog7	x86_64	7.4.10-7.e16	base	1.8 M
Removing: rsyslog	x86_64	5.8.10-12.e16	@anaconda-CentOS-201806291108.x86_64/6.10	2.1 M
Installing For dependencies: json-c libestr	x86_64 x86_64	0.11-13.e16 0.1.9-2.e16	base base	27 k 19 k

```
Transaction Summary
Install      3 Package(s)
Remove      1 Package(s)

Total download size: 1.8 M
Is this ok [y/N]: y
Downloading Packages:
(1/3): json-c-0.11-13.e16.x86_64.rpm                | 27 kB  00:00
(2/3): libestr-0.1.9-2.e16.x86_64.rpm              | 19 kB  00:00
(3/3): rsyslog7-7.4.10-7.e16.x86_64.rpm           | 1.8 MB 00:00
-----
Total                                               4.7 MB/s | 1.8 MB  00:00
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing : json-c-0.11-13.e16.x86_64              1/4
  Installing : libestr-0.1.9-2.e16.x86_64            2/4
  Installing : rsyslog7-7.4.10-7.e16.x86_64          3/4
  Erasing    : rsyslog-5.8.10-12.e16.x86_64          4/4
  Verifying  : libestr-0.1.9-2.e16.x86_64            1/4
  Verifying  : json-c-0.11-13.e16.x86_64             2/4
  Verifying  : rsyslog7-7.4.10-7.e16.x86_64          3/4
  Verifying  : rsyslog-5.8.10-12.e16.x86_64          4/4

Removed:
  rsyslog.x86_64 0:5.8.10-12.e16

Installed:
  rsyslog7.x86_64 0:7.4.10-7.e16

Dependency Installed:
  json-c.x86_64 0:0.11-13.e16                libestr.x86_64 0:0.1.9-2.e16

Finished Transaction
```

> quit

```
> quit
Leaving Shell
[root@centos6 ~]#
```

rsyslogd -version

```
[root@centos6 ~]# rsyslogd -version
rsyslogd 7.4.10 compiled with:
FEATURE_REGEX: 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
uid support: Yes

See http://www.rsyslog.com for more information.
```

2.1.3 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

```
[root@centos6 ~]# vi /etc/rsyslog.conf
```

\$ModLoad imfile # provides support for file logging

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

(2) 設定轉發 Apache log

Apache access log

\$InputFileName /var/log/httpd24/access-NReporter_log

\$InputFileTag apache

\$InputFileStateFile access-NReporter_log

\$InputFileSeverity info

\$InputFileFacility local6

\$InputRunFileMonitor

Apache error log

\$InputFileName /var/log/httpd24/error_log

\$InputFileTag apache

\$InputFileStateFile error_log

\$InputFileSeverity warning

\$InputFileFacility local6

\$InputRunFileMonitor

Send Apache log to N-Reporter

if \$programname == 'apache' then action (type="omfwd" Target="192.168.2.69" Port="514" Protocol="udp")

```
# Apache access log
$InputFileName /var/log/httpd24/access-NReporter_log
$InputFileTag apache
$InputFileStateFile access-NReporter_log
$InputFileSeverity info
$InputFileFacility local6
$InputRunFileMonitor
# Apache error log
$InputFileName /var/log/httpd24/error_log
$InputFileTag apache
$InputFileStateFile error_log
$InputFileSeverity warning
$InputFileFacility local6
$InputRunFileMonitor
# Send Apache log to N-Reporter
if $programname == 'apache' then action (type="omfwd" Target="192.168.2.69" Port="514" Protocol="udp")
```

紅色文字部位請輸入 N-Reporter 系統 IP address

Target="192.168.2.69"

紅色文字請輸入 Apache 日誌路徑檔案

\$InputFileName /var/log/httpd24/access-NReporter_log

\$InputFileName /var/log/httpd24/error_log

(3) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

service rsyslog restart && service rsyslog status

```
[root@centos6 ~]# service rsyslog restart && service rsyslog status
Shutting down system logger: [ OK ]
Starting system logger: [ OK ]
rsyslogd (pid 1867) is running...
[root@centos6 ~]#
```

2.2 CentOS 7

2.2.1 編輯 Apache 設定檔

(1) 編輯 Apache 設定檔

```
# vi /etc/httpd/conf/httpd.conf
```

```
[root@centos7 ~]# vi /etc/httpd/conf/httpd.conf
```

(2) 新增 log 設定

```
ErrorLogFormat "[%u] [%m:%l] [pid %P:tid %T] %7F: %E: [client\ %a] %M% ,\ referer\ %{Referer}i"
```

```
<IfModule logio_module>
```

```
LogFormat "%h %l %u %t \"%r\" %>s %O %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"

#
# 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>
#
# 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] [%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\" %T %O" combinedio
LogFormat "%h %l %u %t \"%r\" %>s %O %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>
```


(3) 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; vendor preset: disabled)
   Active: active (running) since Mon 2019-03-04 13:57:19 CST; 6ms ago
     Docs: man:httpd(8)
           man:apachectl(8)
  Process: 5886 ExecStop=/bin/kill -WINCH ${MAINPID} (code=exited, status=0/SUCCESS)
 Main PID: 5891 (httpd)
   Status: "Processing requests..."
    CGroup: /system.slice/httpd.service
           └─5891 /usr/sbin/httpd -DFOREGROUND
             └─5892 /usr/sbin/httpd -DFOREGROUND
               └─5893 /usr/sbin/httpd -DFOREGROUND
                 └─5894 /usr/sbin/httpd -DFOREGROUND
                   └─5895 /usr/sbin/httpd -DFOREGROUND
                     └─5896 /usr/sbin/httpd -DFOREGROUND

Mar 04 13:57:19 centos7 systemd[1]: Stopped The Apache HTTP Server.
Mar 04 13:57:19 centos7 systemd[1]: Starting The Apache HTTP Server...
Mar 04 13:57:19 centos7 systemd[1]: Started The Apache HTTP Server.
```

2.2.2 設定 rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

```
# vi /etc/rsyslog.conf
```

```
[root@centos7 ~]# vi /etc/rsyslog.conf
```

```
$ModLoad imfile # provides support for file logging
```

```
##### MODULES #####  
# The imjournal module below 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
```

(2) 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_log" Tag="apache" Severity="warning" Facility="local6"  
Ruleset="nreporter")
```

```
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.2.69" 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_log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter")  
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.2.69" Port="514" Protocol="udp")}
```

紅色文字部位請輸入 N-Reporter 系統 IP address

```
Target="192.168.2.69"
```

紅色文字請輸入 Apache 日誌路徑檔案

```
File="/var/log/httpd/access-NReporter_log"
```

```
File="/var/log/httpd/error_log"
```

(3) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog

```
[root@centos7 ~]# 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 Mon 2019-03-04 14:00:12 CST; 4ms ago
     Docs: man:rsyslogd(8)
           http://www.rsyslog.com/doc/
   Main PID: 5907 (rsyslogd)
   CGroup: /system.slice/rsyslog.service
           └─5907 /usr/sbin/rsyslogd -n

Mar 04 14:00:12 centos7 systemd[1]: Stopped System Logging Service.
Mar 04 14:00:12 centos7 systemd[1]: Starting System Logging Service.
Mar 04 14:00:12 centos7 rsyslogd[5907]: [origin software="rsyslogd" swVersion="8.24.0-34.e17" x-pid="5907" x-info="http://www.rsyslog.com"] start
Mar 04 14:00:12 centos7 systemd[1]: Started System Logging Service.
```



3. Debian 9

3.1 編輯 Apache 設定檔

(1) 編輯 Apache2 設定檔

```
# vi /etc/apache2/apache2.conf
```

```
root@debian9:~# vi /etc/apache2/apache2.conf
```

(2) 新增 log 設定

```
LogFormat "%h %l %u %t \"%r\" %>s %O %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter
```

```
ErrorLogFormat "[%u] [%m-%l] [pid %P:tid %T] %7F: %E: [client %a] %M% ,\ referer %i"
```

```
#
# The following directives define some format nicknames for use with
# a CustomLog directive.
#
# These deviate from the Common Log Format definitions in that they use %O
# (the actual bytes sent including headers) instead of %b (the size of the
# requested file), because the latter makes it impossible to detect partial
# requests.
#
# Note that the use of %{X-Forwarded-For}i instead of %h is not recommended.
# Use mod_remoteip instead.
#
LogFormat "%v:%p %h %l %u %t \"%r\" %>s %O \"%{Referer}i\" \"%{User-Agent}i\"" vhost_combined
LogFormat "%h %l %u %t \"%r\" %>s %O \"%{Referer}i\" \"%{User-Agent}i\"" combined
LogFormat "%h %l %u %t \"%r\" %>s %O" common
LogFormat "%i -> %U" referer
LogFormat "%i" agent
LogFormat "%h %l %u %t \"%r\" %>s %O %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter
ErrorLogFormat "[%u] [%m-%l] [pid %P:tid %T] %7F: %E: [client %a] %M% ,\ referer %i"
```

(3) 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
```

(4) 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
```

(5) 重啟 Apache 服務和確認 Apache 服務狀態

```
# systemctl restart apache2 && systemctl status apache2
```

```
root@debian9:~# systemctl restart apache2 && systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2019-03-04 01:10:56 EST; 14ms ago
     Process: 5954 ExecStop=/usr/sbin/apachectl stop (code=exited, status=0/SUCCESS)
     Process: 5330 ExecReload=/usr/sbin/apachectl graceful (code=exited, status=0/SUCCESS)
     Process: 5962 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 5966 (apache2)
     Tasks: 59 (limit: 4915)
   CGroup: /system.slice/apache2.service
           └─5966 /usr/sbin/apache2 -k start
             └─5967 /usr/sbin/apache2 -k start
               └─5968 /usr/sbin/apache2 -k start

Mar 04 01:10:56 debian9 systemd[1]: Starting The Apache HTTP Server...
Mar 04 01:10:56 debian9 systemd[1]: Started The Apache HTTP Server.
```



3.2 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

```
# vi /etc/rsyslog.conf
```

```
root@debian9:~# vi /etc/rsyslog.conf
```

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

```
#####
#### MODULES ####
#####

module(load="imuxsock") # provides support for local system logging
module(load="imklog") # provides kernel logging support
#module(load="immark") # provides --MARK-- message capability
module(load="imfile") # provides support for file logging
```

(2) 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_log" Tag="apache" Severity="warning" Facility="local6"
Ruleset="nreporter")
```

```
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.2.69" Port="514" Protocol="udp")}
```

```
# Send Apache log to N-Reporter
input(type="imfile" File="/var/log/apache2/access-NReporter_log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter")
input(type="imfile" File="/var/log/apache2/error_log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter")
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.2.69" Port="514" Protocol="udp")}
```

紅色文字部位請輸入 N-Reporter 系統 IP address

```
Target="192.168.2.69"
```

紅色文字請輸入 Apache 日誌路徑檔案

```
File="/var/log/httpd/access-NReporter_log"
```

```
File="/var/log/httpd/error_log"
```

(3) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

```
# systemctl restart rsyslog && systemctl status rsyslog
```

```
root@debian9:~# systemctl restart rsyslog && systemctl status rsyslog
● rsyslog.service - System Logging Service
   Loaded: loaded (/lib/systemd/system/rsyslog.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2019-03-04 01:16:23 EST; 31ms ago
     Docs: man:rsyslogd(8)
           http://www.rsyslog.com/doc/
  Main PID: 6046 (rsyslogd)
    Tasks: 5 (limit: 4915)
   CGroup: /system.slice/rsyslog.service
           └─6046 /usr/sbin/rsyslogd -n

Mar 04 01:16:23 debian9 systemd[1]: Starting System Logging Service...
Mar 04 01:16:23 debian9 liblogging-stdlog[6046]: [origin software="rsyslogd" swVersion="8.24.0" x-pid="6046" x-info="http://www.rsyslog.com"] start
Mar 04 01:16:23 debian9 systemd[1]: Started System Logging Service.
```



4. Ubuntu 18

4.1 編輯 Apache 設定檔

(1) 編輯 Apache2 設定檔

```
# vi /etc/apache2/apache2.conf
```

```
root@ubuntu18:~# vi /etc/apache2/apache2.conf
```

(2) 新增 log 設定

```
LogFormat "%h %l %u %t \"%r\" %>s %O %l %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter
```

```
ErrorLogFormat "[%u] [%-m:%l] [pid %P:tid %T] %7F: %E: [client %a] %M% ,\ referer %i"
```

```
#
# The following directives define some format nicknames for use with
# a CustomLog directive.
#
# These deviate from the Common Log Format definitions in that they use %O
# (the actual bytes sent including headers) instead of %b (the size of the
# requested file), because the latter makes it impossible to detect partial
# requests.
#
# Note that the use of %{X-Forwarded-For}i instead of %h is not recommended.
# Use mod_remoteip instead.
#
LogFormat "%v:%p %h %l %u %t \"%r\" %>s %O \"%{Referer}i\" \"%{User-Agent}i\"" vhost_combined
LogFormat "%h %l %u %t \"%r\" %>s %O \"%{Referer}i\" \"%{User-Agent}i\"" combined
LogFormat "%h %l %u %t \"%r\" %>s %O" common
LogFormat "%i" referer
LogFormat "%i" agent
LogFormat "%h %l %u %t \"%r\" %>s %O %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter
ErrorLogFormat "[%u] [%-m:%l] [pid %P:tid %T] %7F: %E: [client %a] %M% ,\ referer %i"
```

(3) 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
```

(4) 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
```


(5) 重啟 Apache 服務和確認 Apache 服務狀態

```
# systemctl restart apache2 && systemctl status apache2
```

```
root@ubuntu18:~# systemctl restart apache2 && systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Drop-In: /lib/systemd/system/apache2.service.d
            └─apache2-systemd.conf
   Active: active (running) since Mon 2019-03-04 06:25:32 UTC; 15ms ago
     Process: 9258 ExecStop=/usr/sbin/apachectl stop (code=exited, status=0/SUCCESS)
     Process: 9179 ExecReload=/usr/sbin/apachectl graceful (code=exited, status=0/SUCCESS)
     Process: 9263 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 9279 (apache2)
     Tasks: 1 (limit: 2320)
    CGroup: /system.slice/apache2.service
            └─9279 /usr/sbin/apache2 -k start

Mar 04 06:25:32 ubuntu18 systemd[1]: Starting The Apache HTTP Server...
```



4.2 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

```
root@ubuntu18:~# vi /etc/rsyslog.conf
```

provides support for file logging

```
module(load="imfile")
```

```
#####  
### MODULES ###  
#####  
  
module(load="imuxsock") # provides support for local system logging  
#module(load="immark") # provides --MARK-- message capability  
  
# provides UDP syslog reception  
#module(load="imudp")  
#input(type="imudp" port="514")  
  
# provides TCP syslog reception  
#module(load="imtcp")  
#input(type="imtcp" port="514")  
  
# provides kernel logging support and enable non-kernel klog messages  
module(load="imklog" permitnonkernelfacility="on")  
  
# provides support for file logging  
module(load="imfile")
```

(2) 編輯 50-default 設定檔

vi /etc/rsyslog.d/50-default.conf

```
root@ubuntu18:~# vi /etc/rsyslog.d/50-default.conf
```

(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_log" Tag="apache" Severity="warning" Facility="local6"
Ruleset="nreporter")
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.2.69" Port="514" Protocol="udp")}
```

```
# Send Apache Log to N-Reporter
input(type="imfile" File="/var/log/apache2/access-NReporter_log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter")
input(type="imfile" File="/var/log/apache2/error_log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter")
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.2.69" Port="514" Protocol="udp")}
```

紅色文字部位請輸入 N-Reporter 系統 IP address

Target="192.168.2.69"

紅色文字請輸入 Apache 日誌路徑檔案

File="/var/log/httpd/access-NReporter_log"

File="/var/log/httpd/error_log"

(4) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog

```
root@ubuntu18:~# systemctl restart rsyslog && systemctl status rsyslog
● rsyslog.service - System Logging Service
   Loaded: loaded (/lib/systemd/system/rsyslog.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2019-03-04 06:30:11 UTC; 240ms ago
     Docs: man:rsyslogd(8)
           http://www.rsyslog.com/doc/
   Main PID: 9525 (rsyslogd)
     Tasks: 5 (limit: 2320)
   CGroup: /system.slice/rsyslog.service
           └─9525 /usr/sbin/rsyslogd -n

Mar 04 06:30:10 ubuntu18 systemd[1]: Starting System Logging Service...
Mar 04 06:30:11 ubuntu18 rsyslogd[9525]: imuxsock: Acquired UNIX socket '/run/systemd/journal/syslog' (fd 3) from systemd. [v8.32.0]
Mar 04 06:30:11 ubuntu18 rsyslogd[9525]: rsyslogd's groupid changed to 106
Mar 04 06:30:11 ubuntu18 systemd[1]: Started System Logging Service.
Mar 04 06:30:11 ubuntu18 rsyslogd[9525]: rsyslogd's userid changed to 102
Mar 04 06:30:11 ubuntu18 rsyslogd[9525]: [origin software="rsyslogd" swVersion="8.32.0" x-pid="9525" x-info="http://www.rsyslog.com"] start
```



5. SUSE

5.2 SUSE 10

5.2.1 編輯 Apache 設定檔

(1) 編輯 mod_log_config 設定檔

```
# vim /etc/apache2/mod_log_config.conf
```

```
suse10:~ # vim /etc/apache2/mod_log_config.conf
```

(2) 新增 log 設定

```
LogFormat "%h %l %u %t \"%r\" %>s %O \
```

```
\%l %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter
```

```
# 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\" %I %O" combinedio
LogFormat "%h %l %u %t \"%r\" %>s %O \
\%I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter
</IfModule>
```

(3) 編輯 loadmodule 設定檔

```
# vim /etc/apache2/sysconfig.d/loadmodule.conf
```

```
suse10:~ # vim /etc/apache2/sysconfig.d/loadmodule.conf
```

(4) 新增 logio_module 設定

LoadModule logio_module

/usr/lib64/apache2-prefork/mod_logio.so

```
# as listed in APACHE_MODULES (/etc/sysconfig/apache2)
LoadModule actions_module /usr/lib/apache2-prefork/mod_actions.so
LoadModule alias_module /usr/lib/apache2-prefork/mod_alias.so
LoadModule auth_basic_module /usr/lib/apache2-prefork/mod_auth_basic.so
LoadModule authn_file_module /usr/lib/apache2-prefork/mod_authn_file.so
LoadModule authz_host_module /usr/lib/apache2-prefork/mod_authz_host.so
LoadModule authz_groupfile_module /usr/lib/apache2-prefork/mod_authz_groupfile.so
LoadModule authz_default_module /usr/lib/apache2-prefork/mod_authz_default.so
LoadModule authz_user_module /usr/lib/apache2-prefork/mod_authz_user.so
LoadModule authn_dbm_module /usr/lib/apache2-prefork/mod_authn_dbm.so
LoadModule autoindex_module /usr/lib/apache2-prefork/mod_autoindex.so
LoadModule cgi_module /usr/lib/apache2-prefork/mod_cgi.so
LoadModule dir_module /usr/lib/apache2-prefork/mod_dir.so
LoadModule env_module /usr/lib/apache2-prefork/mod_env.so
LoadModule expires_module /usr/lib/apache2-prefork/mod_expires.so
LoadModule include_module /usr/lib/apache2-prefork/mod_include.so
LoadModule log_config_module /usr/lib/apache2-prefork/mod_log_config.so
LoadModule mime_module /usr/lib/apache2-prefork/mod_mime.so
LoadModule negotiation_module /usr/lib/apache2-prefork/mod_negotiation.so
LoadModule setenvif_module /usr/lib/apache2-prefork/mod_setenvif.so
LoadModule ssl_module /usr/lib/apache2-prefork/mod_ssl.so
LoadModule suexec_module /usr/lib/apache2-prefork/mod_suexec.so
LoadModule userdir_module /usr/lib/apache2-prefork/mod_userdir.so
LoadModule logio_module /usr/lib64/apache2-prefork/mod_logio.so
#
```

(5) 編輯 apache2 設定檔

vim /etc/sysconfig/apache2

```
suse10:~ # vim /etc/sysconfig/apache2
```

(6) 新增 logio 模組

APACHE_MODULES="actions alias auth_basic authn_core authn_file authz_host authz_groupfile authz_core

authz_user autoindex cgi dir env expires include log_config mime negotiation setenvif ssl socache_shmcb userdir

reqtimeout logio"

```
# * if your server certificate is protected by a passphrase you should increase the
# APACHE_START_TIMEOUT (see above)
#
# * modules listed here will be ignored if they are not installed
#
# EXAMPLES:
#
# fairly minimal
# APACHE_MODULES="authz_host alias auth dir log_config mime setenvif"
#
# apache's default installation
# APACHE_MODULES="authz_host actions alias asis auth autoindex cgi dir imap include log_conf
# 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 setenv
if ssl suexec userdir php5 logio"
```

(7) 編輯 httpd 設定檔

```
# vim /etc/apache2/httpd.conf
```

```
suse10:~ # vim /etc/apache2/httpd.conf
```

(8) 設定 CustomLog 和 ErrorLog

```
ErrorLog /var/log/apache2/error_log
```

```
ErrorLog "|/bin/logger -t apache -p local6.error"
```

```
CustomLog /var/log/apache2/access-NReporter_log nreporter
```

```
CustomLog "|/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/apache2/error_log
ErrorLog "|/bin/logger -t apache -p local6.error"

CustomLog /var/log/apache2/access-NReporter_log nreporter
CustomLog "|/bin/logger -t apache -p local6.info" nreporter
```

(9) 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 status
Syntax OK
Shutting down httpd2 (waiting for all children to terminate)
Starting httpd2 (prefork)
Checking for httpd2:
suse10:~ #
```

done
done
running

5.2.2 設定 syslog-ng 轉發 Apache log

(1) 編輯 syslog-ng 設定檔

```
# vim /etc/syslog-ng/syslog-ng.conf
```

```
suse10:~ # vim /etc/syslog-ng/syslog-ng.conf
```

```
filter f_local6 { facility(local6); };
```

```
#  
# Filter definitions  
#  
filter f_iptables { facility(kern) and match("IN=") and match("OUT="); };  
filter f_console { level(warn) and facility(kern) and not filter(f_iptables)  
                  or level(err) and not facility(authpriv); };  
  
filter f_newsnotice { level(notice) and facility(news); };  
filter f_newscrit { level(crit) and facility(news); };  
filter f_newserr { level(err) and facility(news); };  
filter f_news { facility(news); };  
  
filter f_mailinfo { level(info) and facility(mail); };  
filter f_mailwarn { level(warn) and facility(mail); };  
filter f_mailerr { level(err, crit) and facility(mail); };  
filter f_mail { facility(mail); };  
  
filter f_cron { facility(cron); };  
filter f_local6 { facility(local6); };  
filter f_local { facility(local0, local1, local2, local3,  
                  local4, local5, local6, local7); };  
  
filter f_acpid { match('^acpid:'); };  
filter f_netmgm { match('^NetworkManager:'); };  
  
filter f_messages { not facility(news, mail) and not filter(f_iptables); };  
filter f_warn { level(warn, err, crit) and not filter(f_iptables); };  
filter f_alert { level(alert); };
```

(2) 設定轉發 Apache log

#

Send Apache log to N-Reporter:

#

```
destination nreporter { udp("192.168.2.69" port(514)); };
```

```
log { source(src); filter(f_local6); destination(nreporter); };
```

```
#  
# Cron-messages in one file:  
# (don't forget to provide logrotation config)  
#  
#destination cron { file("/var/log/cron"); };  
#log { source(src); filter(f_cron); destination(cron); };  
  
#  
# Send Apache log to N-Reporter:  
#  
destination nreporter { udp("192.168.2.69" port(514)); };  
log { source(src); filter(f_local6); destination(nreporter); };  
  
#  
# Some boot scripts use/require local[1-7]:  
#  
destination localmessages { file("/var/log/localmessages"); };  
log { source(src); filter(f_local); destination(localmessages); };
```

紅色文字部位請輸入 N-Reporter 系統 IP address

```
udp("192.168.2.69" port(514))
```

(3) 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:~ #
```


5.1 SUSE 15

5.1.1 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

```
ErrorLogFormat "[%u] [%m:%l] [pid %P:tid %T] %7F: %E: [client %a] %M% ,\ referer %i"
```

```
<IfModule logio_module>
```

```
LogFormat "%h %l %u %t \"%r\" %>s %O %I %T %b \"%i\" \"%a\" nreporter
```

```
</IfModule>
```

```
#
#      Format string:                               Nickname:
#
LogFormat "%h %l %u %t \"%r\" %>s %b"             common
LogFormat "%v %h %l %u %t \"%r\" %>s %b"         vhost_common
LogFormat "%i [%Referer]i -> %U"                 referer
LogFormat "%i [%User-agent]i"                   agent
LogFormat "%h %l %u %t \"%r\" %>s %b \          combined
\" [%Referer]i \" [%User-Agent]i \"
LogFormat "%v %h %l %u %t \"%r\" %>s %b \      vhost_combined
\" [%Referer]i \" [%User-Agent]i \"
ErrorLogFormat "[%u] [%m:%l] [pid %P:tid %T] %7F: %E: [client %a] %M% ,\ 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 \          combinedio
\" [%Referer]i \" [%User-Agent]i \" %I %O"
LogFormat "%h %l %u %t \"%r\" %>s %O %I %T %b \"%i\" \"%a\" nreporter
</IfModule>
```

(3) 編輯 loadmodule 設定檔

```
# vi /etc/apache2/loadmodule.conf
```

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

(4) 新增 logio_module 設定

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_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 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 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_reqtimeout.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) 新增 logio 模組

APACHE_MODULES="actions alias auth_basic authn_core authn_file authz_host authz_groupfile authz_core
authz_user autoindex cgi dir env expires include log_config mime negotiation setenvif ssl socache_shmcb userdir
reqtimeout logio"

```
#  
# apache's default installation  
# APACHE_MODULES="authz_host actions alias asis auth autoindex cgi dir imap include log_co  
nfig mime negotiation setenvif status userdir"  
# your settings  
APACHE_MODULES="actions alias auth_basic authn_core authn_file authz_host authz_groupfile  
authz_core authz_user autoindex cgi dir env expires include log_config mime negotiation se  
tenvif ssl socache_shmcb userdir reqtimeout logio"
```

(7) 編輯 httpd 設定檔

vi /etc/apache2/httpd.conf

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

(8) 設定 CustomLog

```
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_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
```

```
suse15:~ # systemctl restart httpd && systemctl status httpd
● apache2.service - The Apache Webserver
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; vendor preset: disabled)
   Active: active (running) since Mon 2019-03-04 14:51:13 CST; 6ms ago
     Process: 11199 ExecStop=/usr/sbin/start_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
              └─11507 /usr/sbin/httpd-prefork -DSYSCONFIG -C Pidfile /var/run/httpd.pid -C Include /etc/apache2/sysconfig.d//loadmodule.conf -C Include /etc/apache2/sysconfig.d//global.conf
              └─11514 /usr/sbin/httpd-prefork -DSYSCONFIG -C Pidfile /var/run/httpd.pid -C Include /etc/apache2/sysconfig.d//loadmodule.conf -C Include /etc/apache2/sysconfig.d//global.conf
              └─11515 /usr/sbin/httpd-prefork -DSYSCONFIG -C Pidfile /var/run/httpd.pid -C Include /etc/apache2/sysconfig.d//loadmodule.conf -C Include /etc/apache2/sysconfig.d//global.conf
              └─11516 /usr/sbin/httpd-prefork -DSYSCONFIG -C Pidfile /var/run/httpd.pid -C Include /etc/apache2/sysconfig.d//loadmodule.conf -C Include /etc/apache2/sysconfig.d//global.conf
              └─11517 /usr/sbin/httpd-prefork -DSYSCONFIG -C Pidfile /var/run/httpd.pid -C Include /etc/apache2/sysconfig.d//loadmodule.conf -C Include /etc/apache2/sysconfig.d//global.conf
              └─11518 /usr/sbin/httpd-prefork -DSYSCONFIG -C Pidfile /var/run/httpd.pid -C Include /etc/apache2/sysconfig.d//loadmodule.conf -C Include /etc/apache2/sysconfig.d//global.conf

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

5.1.2 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

vi /etc/rsyslog.conf

```
suse15:~ # vi /etc/rsyslog.conf
```

provides support for file logging

\$ModLoad imfile

```
# since rsyslog v3: load input modules
# If you do not load inputs, nothing happens!

# provides --MARK-- message capability (every 1 hour)
$ModLoad immark.so
$MarkMessagePeriod      3600

# provides support for local system logging (e.g. via logger command)
$ModLoad imuxsock.so

# reduce duplicate log messages (last message repeated n times)
$RepeatedMsgReduction  on

# kernel logging (may be also provided by /sbin/klogd)
# see also http://www.rsyslog.com/doc-imklog.html.
$ModLoad imklog.so
# set log level 1 (same as in /etc/sysconfig/syslog).
$klogConsoleLogLevel    1

# provides support for file logging
$ModLoad imfile
```

(2) 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_log" Tag="apache" Severity="warning" Facility="local6"
Ruleset="nreporter")
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.2.69" Port="514" Protocol="udp")}
```

```
# Send Apache log to N-Reporter
input(type="imfile" File="/var/log/apache2/access-NReporter_log" Tag="apache" Severity="info" Facility="local6" Ruleset="nreporter")
input(type="imfile" File="/var/log/apache2/error_log" Tag="apache" Severity="warning" Facility="local6" Ruleset="nreporter")
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.2.69" Port="514" Protocol="udp")}
```

紅色文字部位請輸入 N-Reporter 系統 IP address

```
Target="192.168.2.69"
```

紅色文字請輸入 Apache 日誌路徑檔案

```
File="/var/log/httpd/access-NReporter_log"
```

```
File="/var/log/httpd/error_log"
```

(3) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

systemctl restart rsyslog && systemctl status rsyslog

```
suse15:~ # 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 Mon 2019-03-04 14:55:24 CST; 136ms ago
     Docs: man:rsyslogd(8)
           http://www.rsyslog.com/doc/
   Process: 11541 ExecStartPre=/usr/sbin/rsyslog-service-prepare (code=exited, status=0/SUCCESS)
   Main PID: 11543 (rsyslogd)
   Tasks: 6 (limit: 4915)
   CGroup: /system.slice/rsyslog.service
           └─11543 /usr/sbin/rsyslogd -n -iNONE

Mar 04 14:55:24 suse15 systemd[1]: Starting System Logging Service...
Mar 04 14:55:24 suse15 rsyslogd[11543]: environment variable TZ is not set, auto correcting this to TZ=/etc/localtime [v8.33.1 try http://www.rsyslog.com/e/2442 ]
Mar 04 14:55:24 suse15 rsyslogd[11543]: imuxsock: Acquired UNIX socket '/run/systemd/journal/syslog' (fd 3) from systemd. [v8.33.1]
Mar 04 14:55:24 suse15 systemd[1]: Started System Logging Service.
Mar 04 14:55:24 suse15 rsyslogd[11543]: [origin software="rsyslogd" swVersion="8.33.1" x-pid="11543" x-info="http://www.rsyslog.com"] start
```



6. Solaris 11

6.1 編輯 Apache 設定檔

(1) 編輯 httpd 設定檔

```
# vim /etc/apache2/2.4/httpd.conf
```

```
root@solaris11:~# vim /etc/apache2/2.4/httpd.conf
```

(2) 新增 logio_module 設定

```
LoadModule logio_module libexec/mod_logio.so
```

```
LoadModule log_config_module libexec/mod_log_config.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 CustomLog と ErrorLog

```
#ErrorLog "/var/apache2/2.4/logs/error_log"
```

```
ErrorLog "|/usr/bin/logger -t apache -p local6.error"
```

```
ErrorLogFormat "[%{u}t] [%-m:%l] [pid %P:tid %T] %7F: %E: [client %a] %M% ,\ referer %R%i"
```

```
<IfModule logio_module>
```

```
LogFormat "%h %l %u %t \"%r\" %>s %O %l %T %b \"%R%i\" \"%U-A%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"  
#  
# 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>  
#  
# The following directives define some format nicknames for use with  
# a CustomLog directive (see below).  
#  
LogFormat "%h %l %u %t \"%r\" %>s %b \"%R%i\" \"%U-A%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 %R%i"  
  
<IfModule logio_module>  
# You need to enable mod_logio.c to use %I and %O  
LogFormat "%h %l %u %t \"%r\" %>s %b \"%R%i\" \"%U-A%i\" %T %O" combinedio  
LogFormat "%h %l %u %t \"%r\" %>s %O %I %T %b \"%R%i\" \"%U-A%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) 啟用 Apache 服務和重啟 Apache 服務和確認 Apache 服務狀態

```
# svcadm -v enable http:apache24
```

```
# svcadm -v restart http:apache24
```

```
# svcs -a | grep apache
```

```
root@solaris11:/etc/apache2/2.4# svcadm -v enable http:apache24
svc:/network/http:apache24 enabled.
root@solaris11:/etc/apache2/2.4# svcadm -v restart http:apache24
Action restart set for svc:/network/http:apache24.
root@solaris11:/etc/apache2/2.4# svcs -a | grep apache
disabled..... 18:17:13 svc:/system/apache-stats-24:default
online         19:04:15 svc:/network/http:apache24
```


6.2 設定 Rsyslog 轉發 Apache log

(1) 編輯 rsyslog 設定檔

```
# vim /etc/rsyslog.conf
```

```
root@solaris11:/etc# vim /etc/rsyslog.conf
```

(2) 設定轉發 Apache log

```
# Send Apache log to N-Reporter
```

```
local6.* @192.168.2.69:514
```

```
# Send Apache log to N-Reporter  
local6.* @192.168.2.69:514
```

紅色文字部位請輸入 N-Reporter 系統 IP address

```
@192.168.2.69:514
```

(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 disable system-log:default
```

```
# svcadm -v enable system-log:rsyslog
```

```
# svcadm -v restart system-log:rsyslog
```

```
# svcs -a | grep system-log
```

```
root@solaris11:~# svcadm -v disable system-log:default  
svc:/system/system-log:default disabled.  
root@solaris11:~# svcadm -v enable system-log:rsyslog  
svc:/system/system-log:rsyslog enabled.  
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 18:43:58 svc:/system/system-log:default  
online 18:44:18 svc:/system/system-log:rsyslog
```



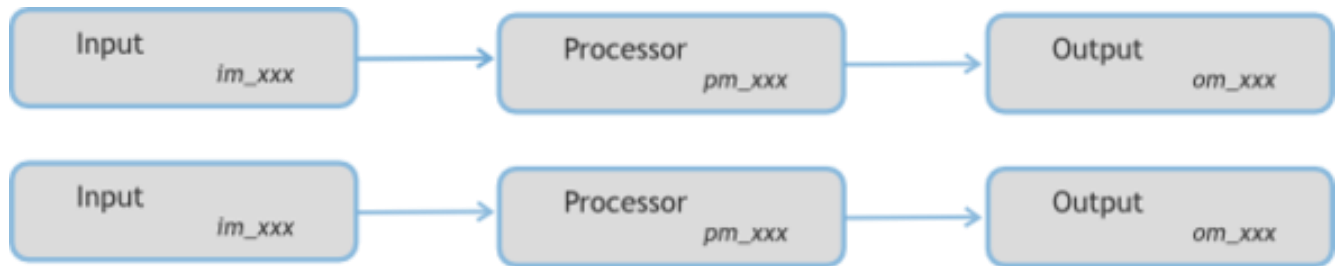
7. Windows 2016

7.1 NXLog

7.1.1 NXLog 架構

NXLog 的 plugin 架構允許任何類型的輸入讀取資料，解析和轉換訊息的格式，然後將其發送到任何類型的輸出。可以同時使用不同的輸入，處理和輸出模組來滿足事件記錄。

<https://nxlog.co/documentation/nxlog-user-guide#modules-im>



7.1.2 NXLog 安裝

(1) 下載 NXLog

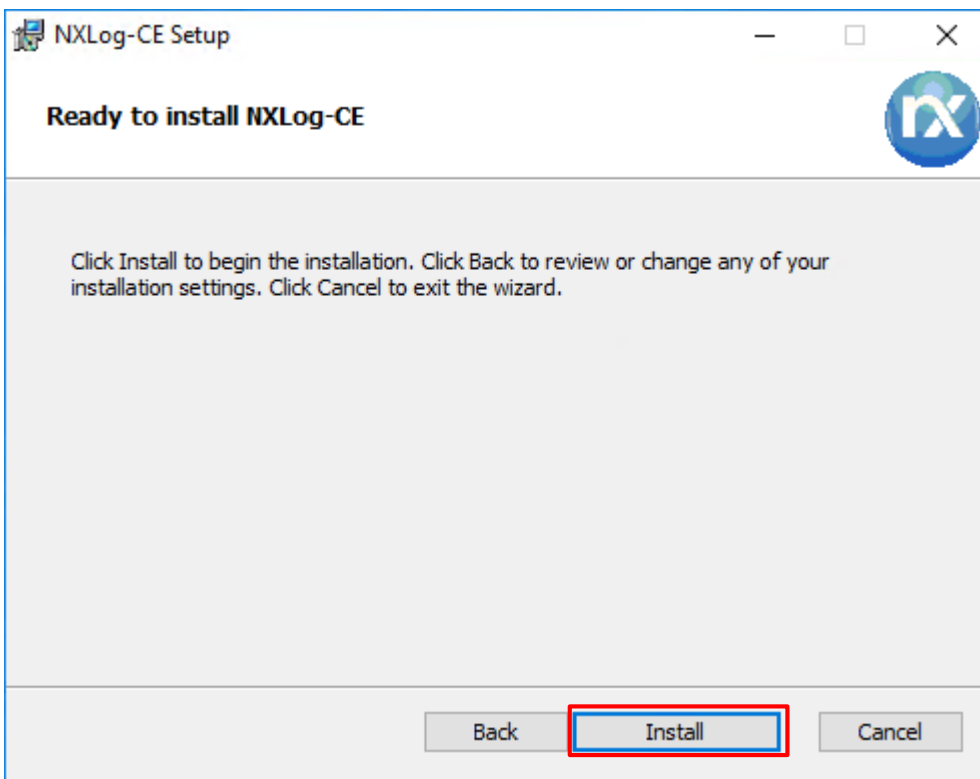
前往網址 <https://nxlog.co/products/nxlog-community-edition/download>

下載網址最新版 nxlog-ce-x.x.xxxx.msi · 範例: nxlog-ce-2.10.2150.msi



(2) 安裝 NXLog

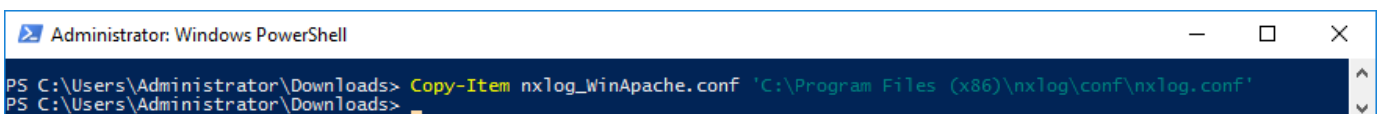
點擊 [nxlog-ce-2.10.2150.msi] -> 按 [Install] 到 [Finish]



(3) 下載並覆蓋 NXLog 設定檔

下載連結 https://www.npartnertech.com/download/tech/nxlog_WinApache.conf ->

覆蓋 NXLog 設定檔 `Copy-Item nxlog_WinApache.conf 'C:\Program Files (x86)\nxlog\conf\nxlog.conf'`



7.1.3 NXLog 設定檔

```
## Please set the ROOT to the folder your nxlog was installed into, otherwise it will not start.
```

```
define NCloud    192.168.2.69
define BASEDIR   C:\Apache24\logs
define ROOT      C:\Program Files (x86)\nxlog
```

```
Moduledir %ROOT%\modules
CacheDir  %ROOT%\data
Pidfile   %ROOT%\data\nxlog.pid
SpoolDir  %ROOT%\data
LogFile   %ROOT%\data\nxlog.log
```

```
Moduledir %ROOT%\modules
CacheDir  %ROOT%\data
Pidfile   %ROOT%\data\nxlog.pid
SpoolDir  %ROOT%\data
```

```
## Load the modules needed by the outputs
```

```
<Extension syslog>
  Module xm_syslog
</Extension>
```

```
## For Apache access log file use the following:
```

```
<Input in_accesslog>
  Module im_file
  File    '%BASEDIR%\access-NReporter.log'
  Exec    $SyslogSeverityValue = 6;
  SavePos True
  ReadFromLast True
</Input>
```

```
## For Apache error log file use the following:
```

```
<Input in_errorlog>
  Module im_file
  File    '%BASEDIR%\error.log'
  Exec    $SyslogSeverityValue = 3;
  SavePos True
  ReadFromLast True
</Input>
```

```
<Output out_apachelog>
  Module om_udp
  Host    %NCloud%
  Port    514
  Exec    $SyslogFacilityValue = 22;
  Exec    $SourceName = 'apache';
  Exec    to_syslog_bsd();
</Output>
```

```
<Route apachelog>
  Path in_accesslog, in_errorlog => out_apachelog
</Route>
```

藍色文字部位請輸入 N-Reporter 系統 IP address

```
define NCloud 192.168.2.69
```

藍色文字部位請輸入 Apache log 記錄檔資料夾路徑

```
define BASEDIR C:\Apache24\logs
```

藍色文字部位請輸入 Apache access 記錄檔名稱

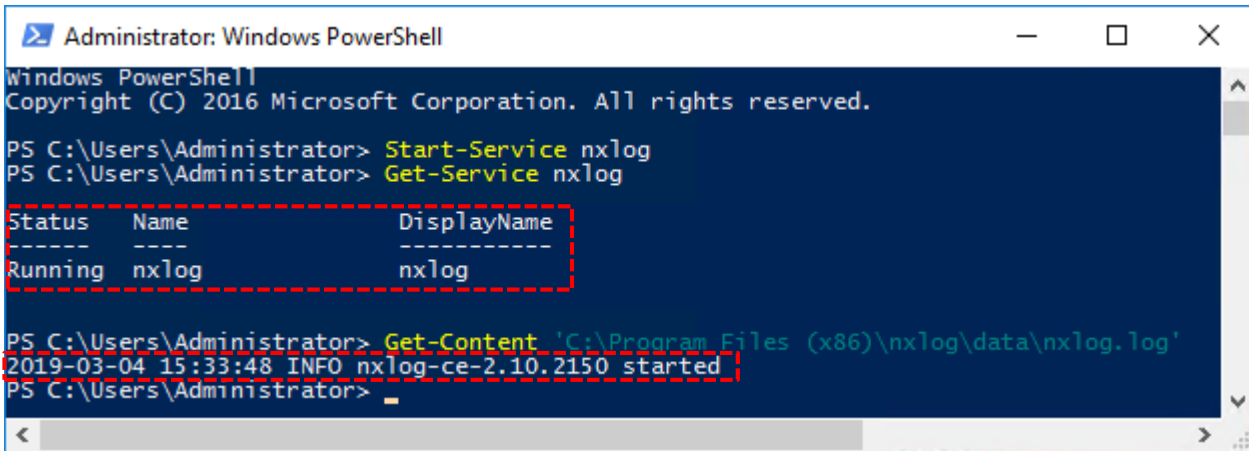
```
File '%BASEDIR%\access-NReporter.log'
```

藍色文字部位請輸入 Apache error 記錄檔名稱

```
File '%BASEDIR%\error.log'
```

7.1.4 NXLog 啟動服務

開啟 [Windows PowerShell] -> 輸入 `Start-Service nxlog` 啟動 nxlog 服務和 `Get-Service nxlog` 查看 nxlog 服務狀態 -> `Get-Content 'C:\Program Files (x86)\nxlog\data\nxlog.log'` 確認沒有錯誤訊息。



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> Start-Service nxlog
PS C:\Users\Administrator> Get-Service nxlog

Status      Name      DisplayName
-----
Running     nxlog     nxlog

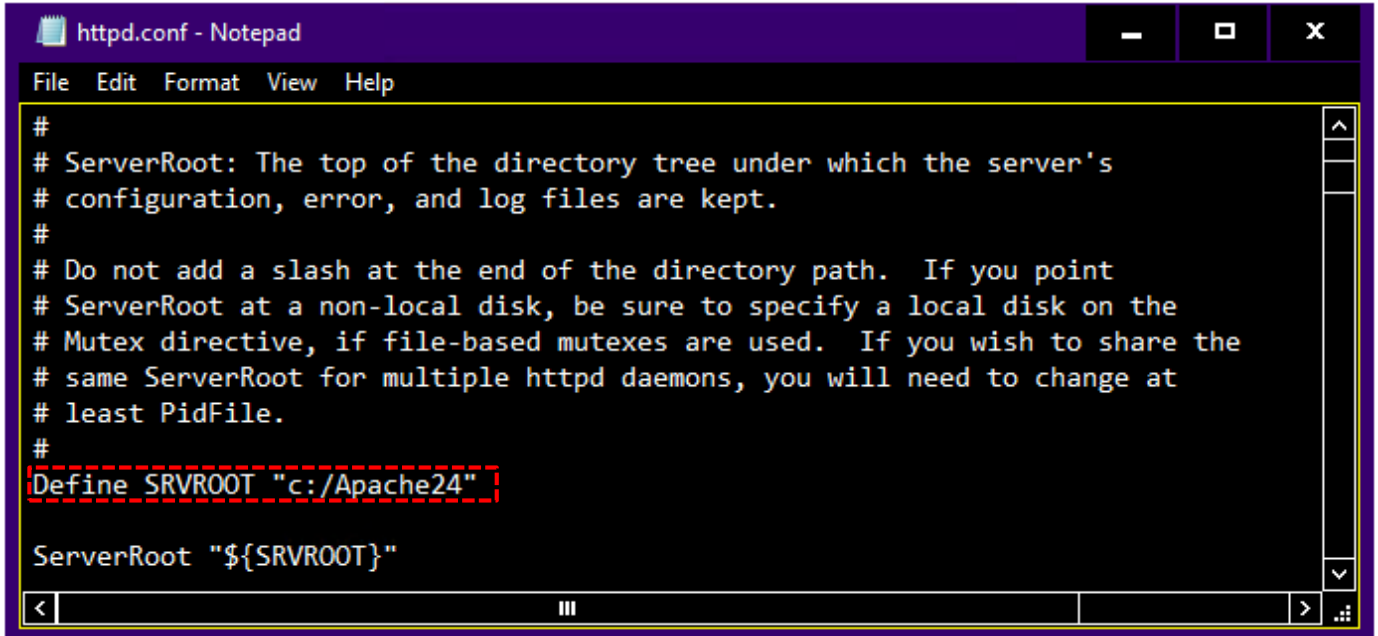
PS C:\Users\Administrator> Get-Content 'C:\Program Files (x86)\nxlog\data\nxlog.log'
2019-03-04 15:33:48 INFO nxlog-ce-2.10.2150 started
PS C:\Users\Administrator>
```

7.2 Apache

7.2.1 編輯 Apache 設定檔

(1) 編輯 httpd 設定檔

編輯 C:\Apache24\conf\httpd.conf 和確認 Apache 資料夾

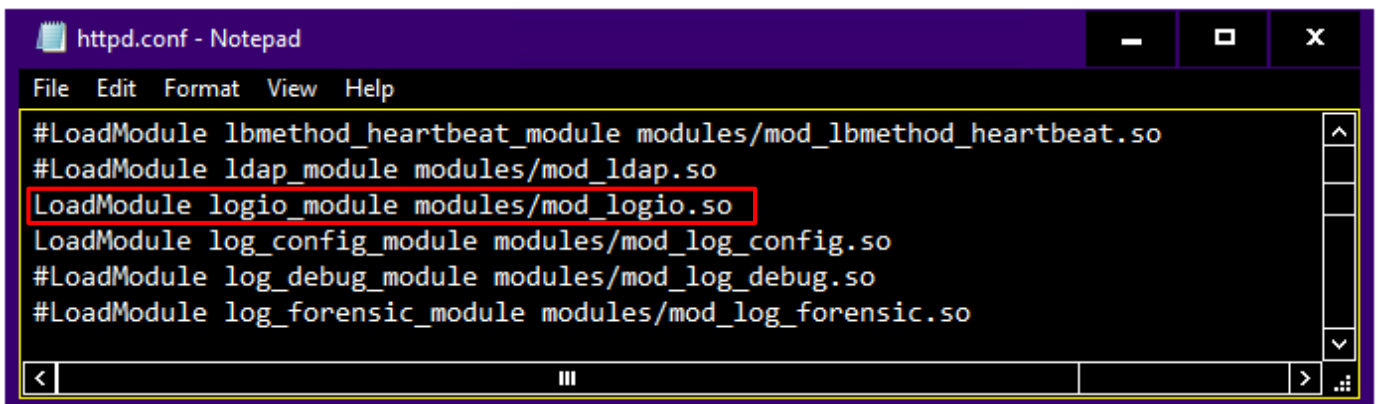
A screenshot of a Notepad window titled 'httpd.conf - Notepad'. The window has a menu bar with 'File', 'Edit', 'Format', 'View', and 'Help'. The text content is as follows:

```
#  
# ServerRoot: The top of the directory tree under which the server's  
# configuration, error, and log files are kept.  
#  
# Do not add a slash at the end of the directory path.  If you point  
# ServerRoot at a non-local disk, be sure to specify a local disk on the  
# Mutex directive, if file-based mutexes are used.  If you wish to share the  
# same ServerRoot for multiple httpd daemons, you will need to change at  
# least PidFile.  
#  
Define SRVROOT "c:/Apache24"  
  
ServerRoot "${SRVROOT}"
```

The line 'Define SRVROOT "c:/Apache24"' is highlighted with a red dashed border.

(2) 啟用 logio_module 設定

[Logio_module logio_module modules/mod_logio.so](#)

A screenshot of a Notepad window titled 'httpd.conf - Notepad'. The window has a menu bar with 'File', 'Edit', 'Format', 'View', and 'Help'. The text content is as follows:

```
#LoadModule lbmethod_heartbeat_module modules/mod_lbmethod_heartbeat.so  
#LoadModule ldap_module modules/mod_ldap.so  
LoadModule logio_module modules/mod_logio.so  
LoadModule log_config_module modules/mod_log_config.so  
#LoadModule log_debug_module modules/mod_log_debug.so  
#LoadModule log_forensic_module modules/mod_log_forensic.so
```

The line 'LoadModule logio_module modules/mod_logio.so' is highlighted with a red border.

(3) 新增 log 設定

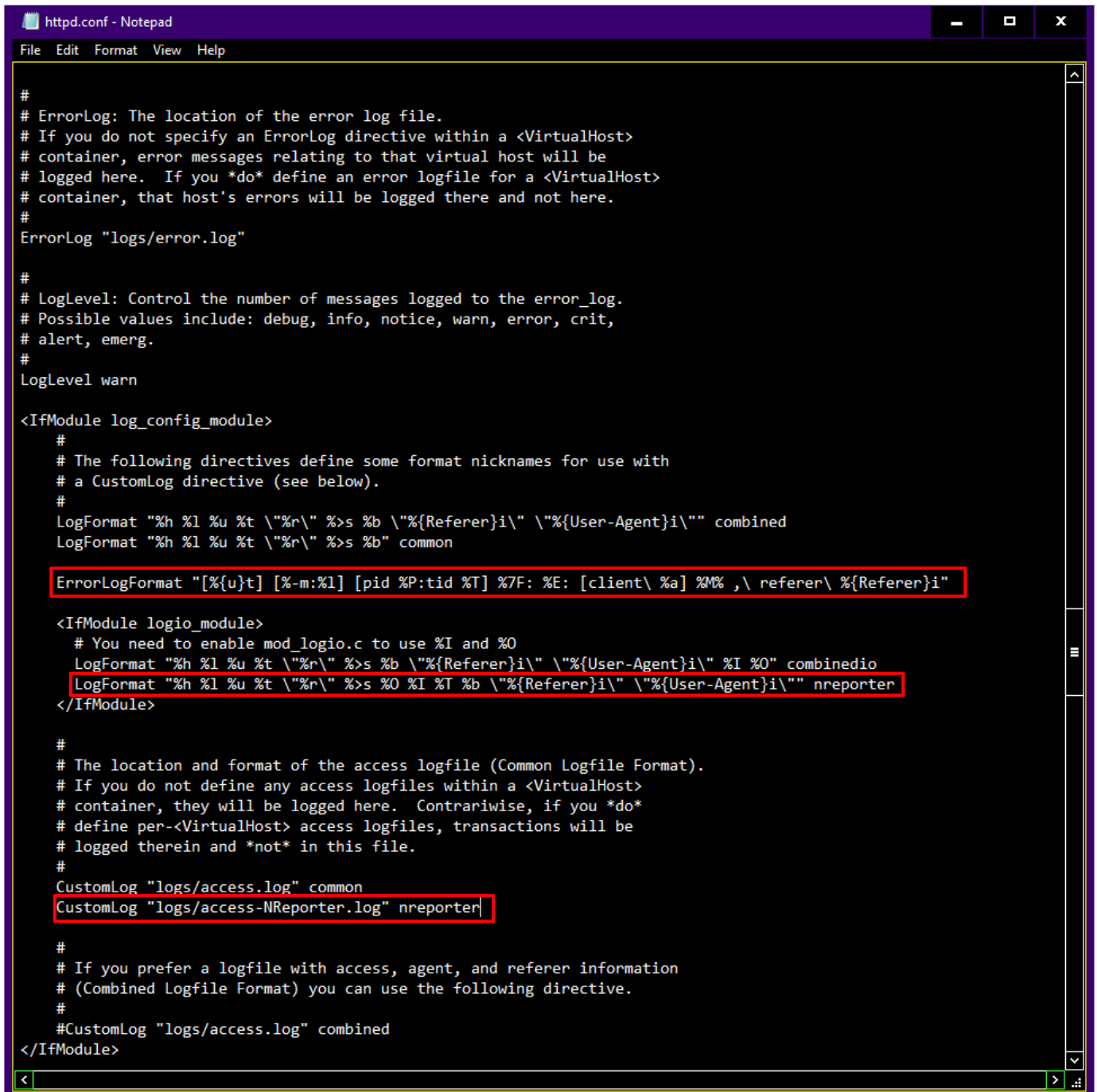
```
ErrorLogFormat "[%{u}t] [%-m:%l] [pid %P:tid %T] %7F: %E: [client\ %a] %M% ,\ referer\ %{Referer}i"
```

```
<IfModule logio_module>
```

```
LogFormat "%h %l %u %t \"%r\" %>s %O %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter
```

```
</IfModule>
```

```
CustomLog "logs/access-NReporter.log" nreporter
```



```
httpd.conf - Notepad
File Edit Format View Help

#
# 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"

#
# 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>
#
# 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"

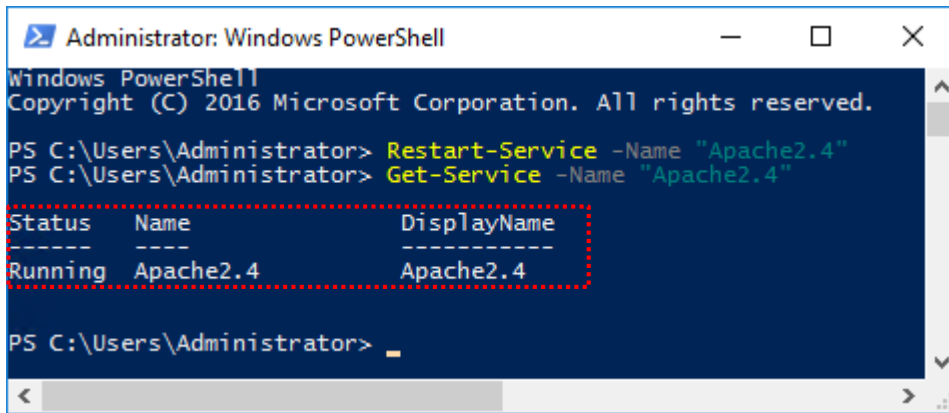
<IfModule logio_module>
# You need to enable mod_logio.c to use %I and %O
LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %O" combinedio
LogFormat "%h %l %u %t \"%r\" %>s %O %I %T %b \"%{Referer}i\" \"%{User-Agent}i\"" nreporter
</IfModule>

#
# 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
CustomLog "logs/access-NReporter.log" nreporter

#
# 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
</IfModule>
```


7.2.2 重啟 Apache 服務

開啟 [Windows PowerShell] -> 輸入 `Restart-Service -Name "Apache2.4"` 重啟 nxlog 服務和 `Get-Service -Name "Apache2.4"` 查看 nxlog 服務狀態



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> Restart-Service -Name "Apache2.4"
PS C:\Users\Administrator> Get-Service -Name "Apache2.4"

Status      Name      DisplayName
-----
Running     Apache2.4 Apache2.4

PS C:\Users\Administrator>
```

8. N-Reporter

(1) 新增 Apache 設備

[設備管理] -> [設備樹狀圖] -> 點選 [新增]

The screenshot displays the N-Reporter web application interface. On the left is a dark blue sidebar menu with the following items: 'Admin (Global) v', '事件' (Events), '報表' (Reports), '智慧分析' (Smart Analysis), '設備管理' (Device Management) - highlighted with a red box, '設備樹狀圖' (Device Tree View) - also highlighted with a red box, '介面列表' (Interface List), '告警樣版' (Alert Templates), '設備異常告警' (Device Abnormal Alerts), '系統管理' (System Management), and '使用者手冊' (User Manual). The main content area shows the breadcrumb 'Home / 設備管理 / 設備樹狀圖'. Below the breadcrumb is a search bar with a search icon, a refresh icon, a green '+ Add' button (highlighted with a red box), a green 'U' button, and a yellow speaker icon. The main content area lists 'Global (4)' and '未知設備 (0)' (Unknown Devices (0)).

(2) 設定 Apache 設備的資料格式和 Facility

輸入 名稱 和 IP -> 勾選設備種類: [Syslog] -> 選擇資料格式: [Apache] 和 Facility: [(22) local use 6 (local6)] -> 選擇設備 Icon: [icon-host] -> 點選接收狀態: [啟用] -> 按下 [確定]

新增設備

設備基本設定

名稱
Apache-192.168.2.211

IP
192.168.2.211

設備種類
 Syslog Flow SNMP

Syslog 相關設定

資料格式
Apache

Facility
(22) local use 6 (local6)

編碼方式
UTF-8

設備進階設定

ICMP 告警樣板
----- N/A -----

設備 Icon
icon-host

Login Account

Login Password

接收狀態
 啟用 停用

暫無資料告警
 啟用 Syslog/Flow 暫無資料告警

資料保留天數

確定 取消



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