



Partner

如何設定 FreeRADIUS syslog

V004

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目錄

前言	1
1 CentOS	2
1.1 CentOS 6	2
1.1.1 編輯 FreeRADIUS 設定檔	2
1.1.2 更新 Rsyslog 版本	3
1.1.3 設定 Rsyslog 轉發 FreeRADIUS log	5
1.2 CentOS 7	6
1.2.1 編輯 FreeRADIUS 設定檔	6
1.2.2 設定 Rsyslog 轉發 FreeRADIUS log	7
1.3 CentOS 8	9
1.3.1 編輯 FreeRADIUS 設定檔	9
1.3.2 設定 Rsyslog 轉發 FreeRADIUS log	11
2 Debian	13
2.1 Debian 8	13
2.1.1 編輯 FreeRADIUS 設定檔	13
2.1.2 設定 Rsyslog 轉發 FreeRADIUS log	15
2.2 Debian 9	17
2.2.1 編輯 FreeRADIUS 設定檔	17
2.2.2 設定 Rsyslog 轉發 FreeRADIUS log	18
3 Ubuntu	20
3.1 Ubuntu 16	20
3.1.1 編輯 FreeRADIUS 設定檔	20
3.1.2 設定 Rsyslog 轉發 FreeRADIUS log	21
3.2 Ubuntu 18	23
3.2.1 編輯 FreeRADIUS 設定檔	23
3.2.2 設定 Rsyslog 轉發 FreeRADIUS log	24
4 N-Reporter	26
5 問題排除	31
5.1 Rsyslog 沒有送出 FreeRADIUS log	31
5.1.1 編輯 FreeRADIUS 設定檔	31
5.1.2 設定 Rsyslog 轉發 FreeRADIUS log	33

前言

本文件描述 N-Reporter 使用者, 在 Linux 使用 Rsyslog 方式設定 FreeRADIUS syslog。
此文件適用於 CentOS / Debian / Ubuntu。

FreeRADIUS Logging: (<https://wiki.freeradius.org/config/Logging>)

FreeRADIUS Syslog HOWTO: (<https://wiki.freeradius.org/guide/Syslog-HOWTO>)

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 CentOS

1.1 CentOS 6

1.1.1 編輯 FreeRADIUS 設定檔

(1) 查看 FreeRADIUS 版本

```
# radiusd -v
```

```
[root@centos6 ~]# radiusd -v
radiusd: FreeRADIUS Version 2.2.6, for host x86_64-redhat-linux-gnu, built on Jul 18 2017 at 12:13:14
Copyright (C) 1999-2013 The FreeRADIUS server project and contributors.
There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE.
You may redistribute copies of FreeRADIUS under the terms of the
GNU General Public License.
For more information about these matters, see the file named COPYRIGHT.
```

(2) 編輯 FreeRADIUS 設定檔

```
# vi /etc/raddb/radiusd.conf
```

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

(3) 啟用身份驗證請求記錄

```
auth = yes
```

```
# Log authentication requests to the log file.
#
# allowed values: {no, yes}
#
auth = yes
```

(4) 重啟 FreeRADIUS 服務和確認 FreeRADIUS 服務狀態

```
# service radiusd restart && service radiusd status
```

```
[root@centos6 ~]# service radiusd restart && service radiusd status
Stopping radiusd: [ OK ]
Starting radiusd: [ OK ]
radiusd (pid 6959) is running...
```

1.1.2 更新 Rsyslog 版本

(1) 檢查 rsyslog 版本

```
# rsyslogd -version
```

```
[root@CentOS6 ~]# rsyslogd -version
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) 進入 yum shell 模式

```
# yum shell
```

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

(3) 安裝 rsyslog 7 版本和移除 rsyslog 5 版本

```
> 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
>
```

(4) 執行安裝

```
> run  
[y/N]:y
```

```
Running transaction check  
--> Package rsyslog.x86_64 0:5.8.10-12.e16 will be erased  
--> Package rsyslog.x86_64 0:7.4.10-7.e16 will be installed  
--> Processing Dependency: libjson-c.so.2()(64bit) for package: rsyslog-7.4.10-7.e16.x86_64  
--> Processing Dependency: libestr.so.0()(64bit) for package: rsyslog-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: rsyslog	x86_64	7.4.10-7.e16	base	1.8 M
Removing: rsyslog	x86_64	5.8.10-12.e16	@anaconda-CentOS-201806201108.x86_64/6.10	2.1 M
Installing for dependencies: json-c	x86_64	0.11-13.e16	base	27 k
libestr	x86_64	0.1.9-2.e16	base	19 k

```
Transaction Summary  
Install 3 Package(s)  
Remove 1 Package(s)  
total download size: 1.8 M  
Is this ok [y/N]   
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): rsyslog-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 : rsyslog-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 : rsyslog-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:  
rsyslog.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
```

(5) 離開 yum shell 模式

```
> quit
```

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

(6) 檢查 rsyslog 版本

```
# 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  
uuid support: Yes  
See http://www.rsyslog.com for more information.
```

1.1.3 設定 Rsyslog 轉發 FreeRADIUS log

(1) 編輯 rsyslog 設定檔

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

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

(2) 加載 imfile 輸入模組

```
$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
```

(3) 設定轉發 FreeRADIUS log

```
# FreeRADIUS log
$InputFileName /var/log/radius/radius.log
$InputFileTag radius
$InputFileStateFile radius.log
$InputFileFacility local6
$InputRunFileMonitor
# Send FreeRADIUS log to N-Reporter
if $programname == 'radius' then action (type="omfwd" Target="192.168.3.88" Port="514" Protocol="udp")
```

```
# FreeRADIUS log
$InputFileName /var/log/radius/radius.log
$InputFileTag radius
$InputFileStateFile radius.log
$InputFileFacility local6
$InputRunFileMonitor
# Send FreeRADIUS log to N-Reporter
if $programname == 'radius' 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="192.168.3.88"
```

紅色文字請輸入 FreeRADIUS 日誌路徑檔案

```
$InputFileName /var/log/radius/radius.log
```

(4) 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 ~]#
```

1.2 CentOS 7

1.2.1 編輯 FreeRADIUS 設定檔

(1) 查看 FreeRADIUS 版本

```
# radiusd -v
```

```
[root@centos7 ~]# radiusd -v
radiusd: FreeRADIUS Version 3.0.13, for host x86_64-redhat-linux-gnu, built on May 16 2018 at 06:33:35
FreeRADIUS Version 3.0.13
Copyright (C) 1999-2017 The FreeRADIUS server project and contributors
There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE
You may redistribute copies of FreeRADIUS under the terms of the
GNU General Public License
For more information about these matters, see the file named COPYRIGHT
```

(2) 編輯 FreeRADIUS 設定檔

```
# vi /etc/raddb/radiusd.conf
```

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

(3) 啟用身份驗證請求記錄

```
auth = yes
```

```
# Log authentication requests to the log file.
#
# allowed values: {no, yes}
#
auth = yes
```

(4) 重啟 FreeRADIUS 服務和確認 FreeRADIUS 服務狀態

```
# systemctl restart radiusd && systemctl status radiusd
```

```
[root@centos7 ~]# systemctl restart radiusd && systemctl status radiusd
● radiusd.service - FreeRADIUS high performance RADIUS server.
   Loaded: loaded (/usr/lib/systemd/system/radiusd.service; disabled; vendor preset: disabled)
   Active: active (running) since Fri 2019-03-22 14:25:26 CST; 29ms ago
     Process: 5575 ExecStart=/usr/sbin/radiusd -d /etc/raddb (code=exited, status=0/SUCCESS)
     Process: 5571 ExecStartPre=/usr/sbin/radiusd -C (code=exited, status=0/SUCCESS)
     Process: 5567 ExecStartPre=/bin/chown -R radiusd.radiusd /var/run/radiusd (code=exited, status=0/SUCCESS)
    Main PID: 5578 (radiusd)
      CGroup: /system.slice/radiusd.service
              └─5578 /usr/sbin/radiusd -d /etc/raddb

Mar 22 14:25:26 centos7 systemd[1]: Starting FreeRADIUS high performance RADIUS server....
Mar 22 14:25:26 centos7 systemd[1]: Started FreeRADIUS high performance RADIUS server..
```

1.2.2 設定 Rsyslog 轉發 FreeRADIUS log

(1) 查看 Rsyslog 版本

```
# rsyslogd -v
```

```
[root@CentOS7 ~]# rsyslogd -v
rsyslogd 8.24.0-57.e17_9, 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.
```

(2) 編輯 rsyslog 設定檔

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

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

(3) 加載 imfile 輸入模組

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

```
# 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
```

(4) 設定轉發 FreeRADIUS log

```
# Send FreeRADIUS log to N-Reporter
input(type="imfile" File="/var/log/radius/radius.log" Tag="radius" Facility="local6" Ruleset="nreporter"
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.3.88" Port="514" Protocol="udp")}
```

```
# Send FreeRADIUS log to N-Reporter
input(type="imfile" File="/var/log/radius/radius.log" Tag="radius" 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="192.168.3.88"
```

紅色文字請輸入 FreeRADIUS 日誌路徑檔案

```
File="/var/log/radius/radius.log"
```

(5) 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.
```

1.3 CentOS 8

1.3.1 編輯 FreeRADIUS 設定檔

(1) 查看 FreeRADIUS 版本

```
# radiusd -v
```

```
[root@localhost ~]# radiusd -v
radiusd: FreeRADIUS Version 3.2.3, for host x86_64-redhat-linux-gnu, built on May 26 2023 at 15:03:54
FreeRADIUS Version 3.2.3
Copyright (C) 1999-2022 The FreeRADIUS server project and contributors
There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE
You may redistribute copies of FreeRADIUS under the terms of the
GNU General Public License
For more information about these matters, see the file named COPYRIGHT
[root@localhost ~]#
```

(2) 編輯 FreeRADIUS 設定檔

```
# vi /etc/raddb/radiusd.conf
```

```
[root@localhost ~]# vi /etc/raddb/radiusd.conf
[root@localhost ~]#
```

(3) 啟用身份驗證請求記錄

```
auth = yes
```

```
# Log all (accept and reject) authentication results to the log file.
#
# This is the same as setting "auth_accept = yes" and
# "auth_reject = yes"
#
# allowed values: {no, yes}
#
auth = yes
```

(4) 重啟 FreeRADIUS 服務和確認 FreeRADIUS 服務狀態

```
# systemctl restart radiusd && systemctl status radiusd
```

```
[root@localhost ~]# systemctl restart radiusd && systemctl status radiusd
● radiusd.service - FreeRADIUS multi-protocol policy server
   Loaded: loaded (/usr/lib/systemd/system/radiusd.service; enabled; vendor preset: disabled)
   Active: active (running) since Mon 2024-09-02 16:51:40 CST; 11ms ago
     Docs: man:radiusd(8)
           man:radiusd.conf(5)
           http://wiki.freeradius.org/
           http://networkradius.com/doc/
   Process: 533269 ExecStartPre=/usr/sbin/radiusd $FREERADIUS_OPTIONS -Cx -lstout (code=exited, status=0/SUCCESS)
   Main PID: 533272 (radiusd)
   Status: "Processing requests"
     Tasks: 6 (Limit: 49495)
   Memory: 41.1M (Limit: 2.0G)
   CGroup: /system.slice/radiusd.service
           └─533272 /usr/sbin/radiusd -f

9月 02 16:51:40 localhost.localdomain radiusd[533272]: Debugger not attached
9月 02 16:51:40 localhost.localdomain radiusd[533272]: systemd watchdog interval is 30.00 secs
9月 02 16:51:40 localhost.localdomain radiusd[533272]: Loaded virtual server <default>
9月 02 16:51:40 localhost.localdomain radiusd[533272]: Ignoring "sql" (see raddb/mods-available/README.rst)
9月 02 16:51:40 localhost.localdomain radiusd[533272]: Ignoring "ldap" (see raddb/mods-available/README.rst)
9月 02 16:51:40 localhost.localdomain radiusd[533272]: Loaded virtual server default
9月 02 16:51:40 localhost.localdomain radiusd[533272]: # Skipping contents of 'if' as it is always 'false' -- /etc/raddb/sites-enabled/inner-tunnel:366
9月 02 16:51:40 localhost.localdomain radiusd[533272]: Loaded virtual server inner-tunnel
9月 02 16:51:40 localhost.localdomain radiusd[533272]: Ready to process requests
9月 02 16:51:40 localhost.localdomain systemd[1]: Started FreeRADIUS multi-protocol policy server.
[root@localhost ~]#
```

1.3.2 設定 Rsyslog 轉發 FreeRADIUS log

(1) 查看 Rsyslog 版本

```
# rsyslogd -v
```

```
[root@localhost ~]# rsyslogd -v
rsyslogd 8.2408.0.master (aka 2024.08) compiled with:
  PLATFORM: x86_64-redhat-linux-gnu
  PLATFORM (lsb_release -d):
  FEATURE_REGEX: 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.
[root@localhost ~]#
```

(2) 編輯 rsyslog 設定檔

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

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

(3) 加載 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)
        SysSock.Use="off") # Turn off message reception via local log socket;
                           # local messages are retrieved through imjournal now.
module(load="imjournal" # provides access to the systemd journal
        StateFile="imjournal.state") # File to store the position in the journal
#module(load="imklog") # reads kernel messages (the same are read from journald)
#module(load="immark") # provides --MARK-- message capability
module(load="imfile") # provides support for file logging
```

(4) 設定轉發 FreeRADIUS log

```
# Send FreeRADIUS log to N-Reporter
input(type="imfile" File="/var/log/radius/radius.log" Tag="radius" Facility="local6" Ruleset=
"nreporter"
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.3.88" Port="514" Protocol="udp")}
```

```
# Send FreeRADIUS log to N-Reporter
input(type="imfile" File="/var/log/radius/radius.log" Tag="radius" Facility="local6" Ruleset="nreporter")
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.3.88" Port="514" Protocol="udp")}
```

紅色文字部位請輸入 N-Reporter 系統 IP address

```
Target="192.168.3.88"
```

紅色文字請輸入 FreeRADIUS 日誌路徑檔案

```
File="/var/log/radius/radius.log"
```

(5) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

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

```
[root@localhost ~]# 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 2024-09-02 16:57:03 CST; 11ms ago
     Docs: man:rsyslogd(8)
           https://www.rsyslog.com/doc/
  Main PID: 533583 (rsyslogd)
    Tasks: 4 (limit: 49495)
   Memory: 1.2M
   CGroup: /system.slice/rsyslog.service
           └─533583 /usr/sbin/rsyslogd -n

9月 02 16:57:03 localhost.localdomain systemd[1]: Starting System Logging Service...
9月 02 16:57:03 localhost.localdomain rsyslogd[533583]: imjournal: filecreatemode is not set, using default 0644 [v0.2408.0.master try https://www.rsyslog.com/e/2186 ]
9月 02 16:57:03 localhost.localdomain rsyslogd[533583]: [origin software="rsyslogd" swVersion="0.2408.0.master" x-pid="533583" x-info="https://www.rsyslog.com"] start
9月 02 16:57:03 localhost.localdomain systemd[1]: Started System Logging Service.
9月 02 16:57:03 localhost.localdomain rsyslogd[533583]: imjournal: journal files changed, reloading... [v0.2408.0.master try https://www.rsyslog.com/e/0 ]
[root@localhost ~]#
```

2 Debian

2.1 Debian 8

2.1.1 編輯 FreeRADIUS 設定檔

(1) 查看 FreeRADIUS 版本

```
# freeradius -v
```

```
root@debian8:~# freeradius -v
freeradius: FreeRADIUS Version 2.2.5, for host x86_64-pc-linux-gnu, built on Aug 10 2017 at 07:25:15
Copyright (C) 1999-2013 The FreeRADIUS server project and contributors.
There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE.
You may redistribute copies of FreeRADIUS under the terms of the
GNU General Public License.
For more information about these matters, see the file named COPYRIGHT.
```

(2) 編輯 FreeRADIUS 設定檔

```
# vi /etc/freeradius/radiusd.conf
```

```
root@debian8:~# vi /etc/freeradius/radiusd.conf
```

(3) 啟用身份驗證請求記錄

```
auth = yes
```

```
# Log authentication requests to the log file.
#
# allowed values: {no, yes}
#
auth = yes
```

(4) 重啟 FreeRADIUS 服務和確認 FreeRADIUS 服務狀態

```
# systemctl restart freeradius && systemctl status freeradius
```

```
root@debian8:~# systemctl restart freeradius && systemctl status freeradius
● freeradius.service - LSB: Radius Daemon
   Loaded: loaded (/etc/init.d/freeradius)
   Active: active (running) since Fri 2019-03-22 04:20:45 EDT; 2ms ago
     Process: 9572 ExecStop=/etc/init.d/freeradius stop (code=exited, status=0/SUCCESS)
     Process: 9576 ExecStart=/etc/init.d/freeradius start (code=exited, status=0/SUCCESS)
    CGroup: /system.slice/freeradius.service
            └─9579 /usr/sbin/freeradius

Mar 22 04:20:45 debian8 freeradius[9576]: Starting FreeRADIUS daemon: freeradius.
Mar 22 04:20:45 debian8 systemd[1]: Started LSB: Radius Daemon.
```

2.1.2 設定 Rsyslog 轉發 FreeRADIUS log

(1) 查看 Rsyslog 版本

```
# rsyslogd -v
```

```
root@debian8:~# rsyslogd -v
rsyslogd 8.4.2, compiled with:
  FEATURE_REGEX:                               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.
```

(2) 編輯 rsyslog 設定檔

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

```
root@debian8:~# vi /etc/rsyslog.conf
```

(3) 加載 imfile 輸入模組

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

```
$ModLoad imuxsock # provides support for local system logging
$ModLoad imklog   # provides kernel logging support
#$ModLoad immark  # provides --MARK-- message capability
$ModLoad imfile   # provides support for file logging
```

(4) 設定轉發 FreeRADIUS log

```
# FreeRADIUS log
$InputFileName /var/log/radius/radius.log
$InputFileTag radius
$InputFileStateFile radius.log
$InputFileFacility local6
$InputRunFileMonitor
# Send FreeRADIUS log to N-Reporter
if $programname == 'radius' then action (type="omfwd" Target="192.168.3.88" Port="514" Protocol="udp")
```

```
# FreeRADIUS log
$InputFileName /var/log/freeradius/radius.log
$InputFileTag radius
$InputFileStateFile radius.log
$InputFileFacility local6
$InputRunFileMonitor
# Send FreeRADIUS log to N-Reporter
if $programname == 'radius' 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="192.168.3.88"
```

紅色文字請輸入 FreeRADIUS 日誌路徑檔案

```
$InputFileName /var/log/radius/radius.log
```

(5) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

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

```
root@debian8:~# systemctl restart rsyslog && systemctl status rsyslog
● rsyslog.service - System Logging Service
   Loaded: loaded (/lib/systemd/system/rsyslog.service; enabled)
   Active: active (running) since Fri 2019-03-22 04:24:36 EDT; 2ms ago
     Docs: man:rsyslogd(8)
           http://www.rsyslog.com/doc/
  Main PID: 9626 (rsyslogd)
    CGroup: /system.slice/rsyslog.service
            └─9626 /usr/sbin/rsyslogd -n

Mar 22 04:24:36 debian8 systemd[1]: Started System Logging Service.
```

2.2 Debian 9

2.2.1 編輯 FreeRADIUS 設定檔

(1) 查看 FreeRADIUS 版本

```
# freeradius -v
```

```
root@debian9:~# freeradius -v
radiusd: FreeRADIUS Version 3.0.12, for host x86_64-pc-linux-gnu, built on Aug 10 2017 at 07:05:06
FreeRADIUS Version 3.0.12
Copyright (C) 1999-2016 The FreeRADIUS server project and contributors
There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE
You may redistribute copies of FreeRADIUS under the terms of the
GNU General Public License
For more information about these matters, see the file named COPYRIGHT
```

(2) 編輯 FreeRADIUS 設定檔

```
# vi /etc/freeradius/3.0/radiusd.conf
```

(3) 啟用身份驗證請求記錄

```
auth = yes
```

```
# Log authentication requests to the log file.
#
# allowed values: {no, yes}
#
auth = yes
```

(4) 重啟 FreeRADIUS 服務和確認 FreeRADIUS 服務狀態

```
# systemctl restart freeradius && systemctl status freeradius
```

```
root@debian9:~# systemctl restart freeradius && systemctl status freeradius
● freeradius.service - FreeRADIUS multi-protocol policy server
   Loaded: loaded (/lib/systemd/system/freeradius.service; disabled; vendor preset: enabled)
   Active: active (running) since Fri 2019-03-22 04:58:52 EDT; 5ms ago
     Docs: man:radiusd(8)
           man:radiusd.conf(5)
           http://wiki.freeradius.org/
           http://networkradius.com/doc/
   Process: 11836 ExecStart=/usr/sbin/freeradius $FREERADIUS_OPTIONS (code=exited, status=0/SUCCESS)
   Process: 11833 ExecStartPre=/usr/sbin/freeradius $FREERADIUS_OPTIONS -Cxm -lstdout (code=exited, status=0/SUCCESS)
  Main PID: 11840 (freeradius)
    Tasks: 7 (limit: 4915)
   CGroup: /system.slice/freeradius.service
           └─11840 /usr/sbin/freeradius
```

2.2.2 設定 Rsyslog 轉發 FreeRADIUS log

(1) 查看 Rsyslog 版本

```
# rsyslogd -v
```

```
root@debian9:~# rsyslogd -v
rsyslogd 8.24.0, 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
  Number of Bits in RainerScript integers: 64

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

(2) 編輯 rsyslog 設定檔

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

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

(3) 加載 imfile 輸入模組

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

```
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
```

(4) 設定轉發 FreeRADIUS log

```
# Send FreeRADIUS log to N-Reporter
input(type="imfile" File="/var/log/radius/radius.log" Tag="radius" Facility="local6" Ruleset=
"nreporter"
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.3.88" Port="514" Protocol="udp")}
```

```
# Send FreeRADIUS log to N-Reporter
input(type="imfile" File="/var/log/freeradius/radius.log" Tag="radius" 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="192.168.3.88"
```

紅色文字請輸入 FreeRADIUS 日誌路徑檔案

```
File="/var/log/radius/radius.log"
```

(5) 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 Fri 2019-03-22 05:05:08 EDT; 8ms ago
     Docs: man:rsyslogd(8)
           http://www.rsyslog.com/doc/
   Main PID: 11868 (rsyslogd)
      Tasks: 5 (limit: 4915)
   CGroup: /system.slice/rsyslog.service
           └─11868 /usr/sbin/rsyslogd -n

Mar 22 05:05:08 debian9 systemd[1]: Stopped System Logging Service.
Mar 22 05:05:08 debian9 liblogging-stdlog[11868]: [origin software="rsyslogd" swVersion="8.24.0" x-pid="11868" x-info="http://www.rsyslog.com"] start
Mar 22 05:05:08 debian9 systemd[1]: Starting System Logging Service...
Mar 22 05:05:08 debian9 systemd[1]: Started System Logging Service.
```

3 Ubuntu

3.1 Ubuntu 16

3.1.1 編輯 FreeRADIUS 設定檔

(1) 查看 FreeRADIUS 版本

```
# freeradius -v
```

```
root@ubuntu16:~# freeradius -v
freeradius: FreeRADIUS Version 2.2.8, for host x86_64-pc-linux-gnu, built on Jul 26 2017 at 15:27:21
Copyright (C) 1999-2015 The FreeRADIUS server project and contributors.
There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE.
You may redistribute copies of FreeRADIUS under the terms of the
GNU General Public License.
For more information about these matters, see the file named COPYRIGHT.
```

(2) 編輯 FreeRADIUS 設定檔

```
# vi /etc/freeradius/radiusd.conf
```

```
root@ubuntu16:~# vi /etc/freeradius/radiusd.conf
```

(3) 啟用身份驗證請求記錄

```
auth = yes
```

```
# Log authentication requests to the log file.
#
# allowed values: {no, yes}
#
auth = yes
```

(4) 重啟 FreeRADIUS 服務和確認 FreeRADIUS 服務狀態

```
# systemctl restart freeradius && systemctl status freeradius
```

```
root@ubuntu16:~# systemctl restart freeradius && systemctl status freeradius
● freeradius.service - LSB: Radius Daemon
   Loaded: loaded (/etc/init.d/freeradius; bad; vendor preset: enabled)
   Active: active (running) since Fri 2021-05-28 14:56:45 CST; 2ms ago
     Docs: man:systemd-sysv-generator(8)
  Process: 2663 ExecStop=/etc/init.d/freeradius stop (code=exited, status=0/SUCCESS)
  Process: 2672 ExecStart=/etc/init.d/freeradius start (code=exited, status=0/SUCCESS)
    Tasks: 8
   Memory: 3.4M
      CPU: 116ms
   CGroup: /system.slice/freeradius.service
           └─2679 /usr/sbin/freeradius

May 28 14:56:45 ubuntu16 systemd[1]: Starting LSB: Radius Daemon...
May 28 14:56:45 ubuntu16 freeradius[2672]: * Starting FreeRADIUS daemon freeradius
May 28 14:56:45 ubuntu16 freeradius[2672]: ...done.
May 28 14:56:45 ubuntu16 systemd[1]: Started LSB: Radius Daemon.
```

3.1.2 設定 Rsyslog 轉發 FreeRADIUS log

(1) 查看 Rsyslog 版本

```
# rsyslogd -v
```

```
root@ubuntu16:~# rsyslogd -v
rsyslogd 8.16.0, compiled with:
  PLATFORM:                               x86_64-pc-linux-gnu
  PLATFORM (lsb_release -d):
  FEATURE_REGEX:                           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.
```

(2) 編輯 rsyslog 設定檔

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

```
root@ubuntu16:~# vi /etc/rsyslog.conf
```

(3) 加載 imfile 輸入模組

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

```
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
```

(4) 新增 rsyslog 的 110-freeradius.conf 設定檔

```
# vi /etc/rsyslog.d/110-freeradius.conf
```

```
root@ubuntu16:~# vi /etc/rsyslog.d/110-freeradius.conf
```

(5) 設定轉發 FreeRADIUS log

```
# FreeRADIUS log
$InputFileName /var/log/freeradius/radius.log
$InputFileTag radius
$InputFileStateFile radius.log
$InputFileFacility local6
$InputRunFileMonitor
# Send FreeRADIUS log to N-Reporter
if $programname == 'freeradius' then action (type="omfwd" Target="192.168.3.88" Port="514" Protocol="udp")
```

```
# FreeRADIUS log
$InputFileName /var/log/freeradius/radius.log
$InputFileTag radius
$InputFileStateFile radius.log
$InputFileFacility local6
$InputRunFileMonitor
# Send FreeRADIUS log to N-Reporter
if $programname == 'freeradius' then action (type="omfwd" Target="192.168.3.51" Port="514" Protocol="udp")
```

紅色文字部位請輸入 N-Reporter 系統 IP address

```
Target="192.168.3.88"
```

紅色文字請輸入 FreeRADIUS 日誌路徑檔案

```
$InputFileName /var/log/freeradius/radius.log
```

(6) 重啟 Rsyslog 服務和確認 Rsyslog 服務正常

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

```
root@ubuntu16:~# 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 Fri 2021-05-28 15:11:02 CST; 8ms ago
     Docs: man:rsyslogd(8)
           http://www.rsyslog.com/doc/
   Main PID: 2774 (rsyslogd)
    Tasks: 5
   Memory: 620.0K
     CPU: 2ms
   CGroup: /system.slice/rsyslog.service
           └─2774 /usr/sbin/rsyslogd -n

May 28 15:11:02 ubuntu16 systemd[1]: Starting System Logging Service...
May 28 15:11:02 ubuntu16 systemd[1]: Started System Logging Service.
```

3.2 Ubuntu 18

3.2.1 編輯 FreeRADIUS 設定檔

(1) 查看 FreeRADIUS 版本

```
# freeradius -v
```

```
root@ubuntu18:~# freeradius -v
radiusd: FreeRADIUS Version 3.0.16, for host x86_64-pc-linux-gnu, built on Apr 17 2019 at 12:59:55
FreeRADIUS Version 3.0.16
Copyright (C) 1999-2017 The FreeRADIUS server project and contributors
There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE
You may redistribute copies of FreeRADIUS under the terms of the
GNU General Public License
For more information about these matters, see the file named COPYRIGHT
```

(2) 編輯 FreeRADIUS 設定檔和新增 auth log 設定

```
# vi /etc/freeradius/3.0/radiusd.conf
```

```
root@ubuntu18:~# vi /etc/freeradius/3.0/radiusd.conf
```

(3) 啟用身份驗證請求記錄

```
auth = yes
```

```
# Log authentication requests to the log file.
#
# allowed values: {no, yes}
#
auth = yes
```

(4) 重啟 FreeRADIUS 服務和確認 FreeRADIUS 服務狀態

```
# systemctl restart freeradius && systemctl status freeradius
```

```
root@ubuntu18:~# systemctl restart freeradius && systemctl status freeradius
● freeradius.service - FreeRADIUS multi-protocol policy server
   Loaded: loaded (/lib/systemd/system/freeradius.service; disabled; vendor preset: enabled)
   Active: active (running) since Fri 2021-05-28 08:22:01 UTC; 6ms ago
     Docs: man:radiusd(8)
           man:radiusd.conf(5)
           http://wiki.freeradius.org/
           http://networkradius.com/doc/
   Process: 3533 ExecStart=/usr/sbin/freeradius $FREERADIUS_OPTIONS (code=exited, status=0/SUCCESS)
   Process: 3539 ExecStartPre=/usr/sbin/freeradius $FREERADIUS_OPTIONS -Cxm -lstdout (code=exited, status=0/SUCCESS)
   Main PID: 3564 (freeradius)
     Tasks: 6 (limit: 4898)
   CGroup: /system.slice/freeradius.service
           └─3564 /usr/sbin/freeradius

May 28 08:22:01 ubuntu18 freeradius[3539]: rlm_cache (cache_eap): Driver rlm_cache_rbtree (module rlm_cache_rbtree) loaded and linked
May 28 08:22:01 ubuntu18 freeradius[3539]: tls: Using cached TLS configuration from previous invocation
May 28 08:22:01 ubuntu18 freeradius[3539]: tls: Using cached TLS configuration from previous invocation
May 28 08:22:01 ubuntu18 freeradius[3539]: rlm_mschap (mschap): using internal authentication
May 28 08:22:01 ubuntu18 freeradius[3539]: Ignoring "sql" (see raddb/mods-available/README.rst)
May 28 08:22:01 ubuntu18 freeradius[3539]: Ignoring "ldap" (see raddb/mods-available/README.rst)
May 28 08:22:01 ubuntu18 freeradius[3539]: # Skipping contents of 'if' as it is always 'false' -- /etc/freeradius/3.0/sites-enabled/inner-tunnel:331
May 28 08:22:01 ubuntu18 freeradius[3539]: radiusd: #### Skipping IP addresses and ports ####
May 28 08:22:01 ubuntu18 freeradius[3539]: Configuration appears to be OK
May 28 08:22:01 ubuntu18 systemd[1]: Started FreeRADIUS multi-protocol policy server.
```

3.2.2 設定 Rsyslog 轉發 FreeRADIUS log

(1) 查看 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_REGEX:                           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.
```

(2) 編輯 rsyslog 設定檔

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

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

(3) 加載 imfile 輸入模組

```
# 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")
```

(4) 新增 rsyslog 的 110-freeradius.conf 設定檔

```
# vi /etc/rsyslog.d/110-freeradius.conf
```

```
root@ubuntu18:~# vi /etc/rsyslog.d/110-freeradius.conf
```

(5) 設定轉發 FreeRADIUS log

```
# Send FreeRADIUS log to N-Reporter
Input(type="imfile" File="/var/log/freeradius/radius.log" Tag="radius" Facility="local6"
Ruleset="nreporter")
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.3.88" Port="514" Protocol="udp")}
```

```
# Send FreeRADIUS log to N-Reporter
input(type="imfile" File="/var/log/freeradius/radius.log" Tag="radius" Facility="local6" Ruleset="nreporter")
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.3.51" Port="514" Protocol="udp")}
```

紅色文字部位請輸入 N-Reporter 系統 IP address

```
Target="192.168.3.88"
```

紅色文字請輸入 FreeRADIUS 日誌路徑檔案

```
$InputFileName /var/log/freeradius/radius.log
```

(6) 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 Fri 2021-05-28 08:29:19 UTC; 5ms ago
     Docs: man:rsyslogd(8)
           http://www.rsyslog.com/doc/
   Main PID: 3692 (rsyslogd)
     Tasks: 5 (limit: 4658)
    CGroup: /system.slice/rsyslog.service
            └─3692 /usr/sbin/rsyslogd -n

May 28 08:29:19 ubuntu18 systemd[1]: Starting System Logging Service...
May 28 08:29:19 ubuntu18 systemd[1]: Started System Logging Service.
May 28 08:29:19 ubuntu18 rsyslogd[3692]: imuxsock: Acquired UNIX socket '/run/systemd/journal/syslog' (fd 3) from systemd. [v8.32.0]
May 28 08:29:19 ubuntu18 rsyslogd[3692]: rsyslogd's groupid changed to 106
May 28 08:29:19 ubuntu18 rsyslogd[3692]: rsyslogd's userid changed to 102
May 28 08:29:19 ubuntu18 rsyslogd[3692]: [origin software="rsyslogd" swVersion="8.32.0" x-pid="3692" x-info="http://www.rsyslog.com"] start
```

4 N-Reporter

(1) 新增 FreeRADIUS 設備

[設備管理] -> [設備樹狀圖] -> 點選 [新增]

The screenshot displays the N-Reporter 7 web interface. On the left is a dark navigation sidebar with the following items: 'admin (Global)' (with a dropdown arrow), '事件', '報表', '智慧分析', 'Dashboard', '設備管理' (highlighted with a red box), '設備資產樹狀圖' (highlighted with a red box), '設備批次管理', '設備細項設定', '告警樣版', '設備異常告警', '設備設定檔差異比對', '效能監控', '系統管理', and '使用者手冊'. The main content area shows the breadcrumb 'Home / 設備管理 / 設備資產樹狀圖'. Below this is a search bar with '搜尋' and buttons for '重新輸入', '啟動查詢', '+', a tree icon, a speaker icon, and an upload icon. The tree view shows a root node 'Global (10/10)' with a sub-node '未知設備 (0/3)'.

(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 [Linux Radius]-> 點選 [下一步]

新增設備 - 設備基本設定

設備基本設定

設備名稱 *

FreeRADIUS_192.168.8.55

IP *

192.168.8.55

所屬領域 *

Global

Syslog 資料格式 ⓘ

Linux Radius

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

上一步 下一步 取消

(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)

新增設備 - Syslog 相關設定

Syslog 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 保留與轉發

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]

新增設備 - 其它

其它

設備 Icon

接收狀態

啟用 停用

經緯度

緯度 經度

上一步 下一步 取消

是否啟用預設報表，將套用至相同廠牌型號設備-> 點擊 [否]

是否啟用預設報表，將套用至相同廠牌型號設備？

是 否

5 問題排除

5.1 Rsyslog 沒有送出 FreeRADIUS log

5.1.1 編輯 FreeRADIUS 設定檔

詳細說明請參考前言的[FreeRADIUS Syslog HOWTO 連結](#)

(1) 查看 FreeRADIUS 版本

```
# radiusd -v
```

```
[root@localhost ~]# radiusd -v
radiusd: FreeRADIUS Version 3.2.3, for host x86_64-redhat-linux-gnu, built on May 26 2023 at 15:03:54
FreeRADIUS Version 3.2.3
Copyright (C) 1999-2022 The FreeRADIUS server project and contributors
There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE
You may redistribute copies of FreeRADIUS under the terms of the
GNU General Public License
For more information about these matters, see the file named COPYRIGHT
[root@localhost ~]# █
```

(2) 編輯 FreeRADIUS 設定檔

```
# vi /etc/raddb/radiusd.conf
```

```
[root@localhost ~]# vi /etc/raddb/radiusd.conf
[root@localhost ~]# █
```

(3) 註解 destination = files 及新增 destination = syslog

```
# destination =files
destination = syslog
```

```
#
# Destination for log messages. This can be one of:
#
# files - log to "file", as defined below.
# syslog - to syslog (see also the "syslog_facility", below.
# stdout - standard output
# stderr - standard error.
#
# The command-line option "-X" over-rides this option, and forces
# logging to go to stdout.
#
#destination = files
destination = syslog
```

(4) 註解 syslog_facility = daemon 及新增 syslog_facility = local6

```
# syslog_facility = daemon
syslog_facility = local6
```

```
#
# Which syslog facility to use, if ${destination} == "syslog"
#
# The exact values permitted here are OS-dependent. You probably
# don't want to change this.
#
#syslog_facility = daemon
syslog_facility = local6
```

(5) 啟用身份驗證請求記錄

```
auth = yes
```

```
# Log all (accept and reject) authentication results to the log file.
#
# This is the same as setting "auth_accept = yes" and
# "auth_reject = yes"
#
# allowed values: {no, yes}
#
auth = yes
```

(6) 重啟 FreeRADIUS 服務和確認 FreeRADIUS 服務狀態

```
# systemctl restart radiusd && systemctl status radiusd
```

```
[root@localhost ~]# systemctl restart radiusd && systemctl status radiusd
● radiusd.service - FreeRADIUS multi-protocol policy server
   Loaded: loaded (/usr/lib/systemd/system/radiusd.service; enabled; vendor preset: disabled)
   Active: active (running) since Mon 2024-10-21 15:39:13 CST; 10ms ago
     Docs: man:radiusd(8)
           man:radiusd.conf(5)
           http://wiki.freeradius.org/
           http://networkradius.com/doc/
   Process: 3976 ExecStartPre=/usr/sbin/radiusd $FREERADIUS_OPTIONS -Cx -lstdout (code=exited, status=0/SUCCESS)
   Main PID: 3981 (radiusd)
   Status: "Processing requests"
   Tasks: 6 (limit: 49495)
  Memory: 41.1M (limit: 2.0G)
   CGroup: /system.slice/radiusd.service
           └─3981 /usr/sbin/radiusd -f

10月 21 15:39:13 localhost.localdomain radiusd[3981]: Debugger not attached
10月 21 15:39:13 localhost.localdomain radiusd[3981]: systemd watchdog interval is 30.00 secs
10月 21 15:39:13 localhost.localdomain radiusd[3981]: Loaded virtual server <default>
10月 21 15:39:13 localhost.localdomain radiusd[3981]: Ignoring "sql" (see raddb/mods-available/README.rst)
10月 21 15:39:13 localhost.localdomain radiusd[3981]: Ignoring "ldap" (see raddb/mods-available/README.rst)
10月 21 15:39:13 localhost.localdomain radiusd[3981]: Loaded virtual server default
10月 21 15:39:13 localhost.localdomain radiusd[3981]: # Skipping contents of 'if' as it is always 'false' -- /etc/raddb/sites-enabled/inner-tunnel:366
10月 21 15:39:13 localhost.localdomain radiusd[3981]: Loaded virtual server inner-tunnel
10月 21 15:39:13 localhost.localdomain radiusd[3981]: Ready to process requests
10月 21 15:39:13 localhost.localdomain systemd[1]: Started FreeRADIUS multi-protocol policy server.
[root@localhost ~]#
```

5.1.2 設定 Rsyslog 轉發 FreeRADIUS log

(1) 查看 Rsyslog 版本

```
# rsyslogd -v
```

```
[root@localhost ~]# rsyslogd -v
rsyslogd 8.2410.0.master (aka 2024.10) compiled with:
  PLATFORM:                               x86_64-redhat-linux-gnu
  PLATFORM (lsb_release -d):
  FEATURE_REGEX:                           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.
[root@localhost ~]#
```

(2) 編輯 rsyslog 設定檔

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

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

(3) 設定轉發 FreeRADIUS log

```
# Send FreeRADIUS log to N-Reporter
input(type="imfile" File="/var/log/radius/radius.log" Tag="radius" Facility="local6" Ruleset=
"nreporter"
ruleset(name="nreporter"){action(type="omfwd" Target="192.168.3.88" Port="514" Protocol="udp")}
```

```
# Send FreeRADIUS log to N-Reporter
#input(type="imfile" File="/var/log/radius/radius.log" Tag="radius" Facility="local6" Ruleset="nreporter")
#ruleset(name="nreporter"){action(type="omfwd" Target="192.168.3.88" Port="514" Protocol="udp")}
```

紅色文字部位請輸入 FreeRADIUS 日誌路徑檔案。

紅色文字部位請輸入 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@localhost ~]# 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 2024-10-21 15:41:35 CST; 9ms ago
     Docs: man:rsyslogd(8)
           https://www.rsyslog.com/doc/
   Main PID: 4086 (rsyslogd)
     Tasks: 4 (limit: 49495)
    Memory: 1.2M
   CGroup: /system.slice/rsyslog.service
           └─4086 /usr/sbin/rsyslogd -n

10月 21 15:41:35 localhost.localdomain systemd[1]: Starting System Logging Service...
10月 21 15:41:35 localhost.localdomain systemd[1]: Started System Logging Service.
10月 21 15:41:35 localhost.localdomain rsyslogd[4086]: imjournal: filecreateMode is not set, using default 0644 [v8.2410.0.master try https://www.rsyslog.com/e/2186 ]
10月 21 15:41:35 localhost.localdomain rsyslogd[4086]: [origin software="rsyslogd" swVersion="8.2410.0.master" x-pid="4086" x-info="https://www.rsyslog.com"] start
10月 21 15:41:35 localhost.localdomain rsyslogd[4086]: imjournal: journal files changed, reloading... [v8.2410.0.master try https://www.rsyslog.com/e/0 ]
[root@localhost ~]#
```



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