

# FTICKS for NPS

**NOTE: This is untested.**

**This only applies to Federation Operators and not to individual sites**

Here we provide one option for a syslog proxy server but you set up any syslog server as long as it has the following behaviour:

- Uses the [FTICKS](#) format
- Proxies to utilities.govroam.uk on port 514/UDP with Facility local5
- Includes in the FTICKS '#FEDID=0X000#' where 0X000 is replaced by the Federation ID supplied by Jisc.
- Filters down the proxied log to just those for
  - Successful authentications
  - Only authentications between member sites (i.e. NOT those to or from the Jisc NRPS, or within an organisation)

## Installation

Download NXLog Community Edition from here:

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

and install it. Make of note of where the nxlog.conf file is.

## Configuration

Edit the *nxlog.conf* file to read, making sure that the ROOT points to the directory it's installed in:

```
Panic Soft
#NoFreeOnExit TRUE

define ROOT      C:\Program Files (x86)\nxlog
define CERTDIR   %ROOT%\cert
define CONFDIR   %ROOT%\conf
define LOGDIR    %ROOT%\data
define LOGFILE   %LOGDIR%\nxlog.log
LogFile %LOGFILE%

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

<Extension _syslog>
```

```
Module xm_syslog
</Extension>

<Extension _exec>
Module xm_exec
</Extension>

<Output syslog_tls>
Module om_ssl
Host 212.219.243.132
Port 6514
# CAFile c:/Program Files (x86)/nxlog/data/cacert.pem
# CertFile c:/Program Files (x86)/nxlog/data/clientreq.pem
# CertKeyFile c:/Program Files (x86)/nxlog/data/clientkey.pem
AllowUntrusted 1
OutputType Syslog_TLS
Exec to_syslog_ietf();
</Output>

<Output syslog_tcp>
Module om_tcp
Host 212.219.243.132
Port 601
OutputType Syslog_TLS
Exec to_syslog_ietf();
</Output>

<Input eventlog>
Module im_msvistalog
<QueryXML>
<QueryList>
<Query Id="0" Path="System">
<Select Path="System">*[System[Provider[@Name='NPS']]]</Select>
<Select Path="Security">*[System[Provider[@Name='Microsoft-
Windows-Security-Auditing'] and Task = 12552]]</Select>
</Query>
</QueryList>
</QueryXML>
<Exec>
# Don't send log if going to or coming from a NRPS
# Change to match the ClientName and ProxyPolicyName as appropriate
if $ClientName =~ /NRPS/i drop();
if $ProxyPolicyName =~ /NRPS/i drop();

# Replace with the provided Federation ID
$FederationID = "XXXXX";

# Send Client Name as the Operator Name if present, otherwise use a default.
# Replace lsomething.here with the Federation's Operator Name
if $ClientName == ''
```

```
    {
      $OperatorName = "1something.here";
    }
    else
    {
      $OperatorName = $ClientName;
    }
  </Exec>
</Input>

<Route 1>
  Path      eventlog => syslog_tcp
</Route>
```

Replace XXXXX with the Federation ID supplied by Jisc.

Replace *1something.here* with your realm, prefixed by '1'.

The Client Name and the Proxy Policy Name for receiving from/sending to the Jisc NRPS would have to contain 'NRPS' for the above to work. Otherwise change the above so that requests to/from the NRPS are excluded from the logging.

Save the file and restart the service.

To make this work properly, the Client Name has to be in the form of a realm e.g. 1holby.nhs.uk for each of the Clients.

The stanza, `syslog_tls`, is just there for information. It's not actually used in this configuration. At a later date we'll be looking at encryption but there's a PKI to build.

This is all fairly self-explanatory. **OutputType Syslog\_TLS** is needed to enforce the RFC5424 standards along with **Exec to\_syslog\_ietf()**. Not sure why both are needed but they really are.

In the Eventlog config the QueryXML is extracted from Windows Event Log (**Event Viewer** → **Custom View** → **Server Roles**. Right click on **Network Policy...**. Choose **Properties**, **Edit Filter**, **XML** and copy the XML into the NXLog config).

Some customisation might be needed to filter only for traffic between sites, rather than traffic to/from Jisc NRPS.

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