

# FTICKS for NPS

**NOTE: This is untested.**

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

## 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 = "lsomething.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'.

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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