

# 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 10.12.101.19
  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 10.12.101.19
  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>
    if $ClientName =~ /NRPS/i drop();
    if $ProxyPolicyName =~ /NRPS/i drop();
    $FederationID = "000X0";
    if $ClientName == ''
    {
      $OperatorName = "lsomething.here";
    }
    else
    {
      $OperatorName = $ClientName;
    }
  </Exec>
</Input>

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

```
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 _charconv>
    Module      xm_charconv
    AutodetectCharsets iso8859-2, utf-8, utf-16, utf-32
</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>
</Input>
```

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

Save the file and restart the service.

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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