

# 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 and add the following to the end:

```
<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 first 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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