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
      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 1something.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.

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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