

Encrypting traffic to a remote syslog-ng server including SSL peer authentication

1. Install stunnel and syslog-ng on all machines.
2. Create certificates for all machines. On RedHat 9 and similar machines, you can do the following as root:

```
# cd /usr/share/ssl/certs
# make syslog-ng-server.pem
# make syslog-ng-client.pem
```

3. Place copies of syslog-ng-server.pem on all machines in /etc/stunnel with one important alteration. The clients only need the certificate section of syslog-ng-server.pem. In other words, remove the private key section from syslog-ng-server.pem on all clients.

Place every client's syslog-ng-client.pem in /etc/stunnel. For server, create a special syslog-ng-client.pem containing the certificate sections for all clients and place in /etc/stunnel. In other words, remove the private key sections from all syslog-ng-client.pem files and concatenate what is left to create server's special syslog-ng-client.pem.

4. Give only root ownership, read and write permissions for certificates.
5. On server, create /etc/stunnel/stunnel.conf containing the following replacing server IP address accordingly:

```
cert = /etc/stunnel/syslog-ng-server.pem
CAfile = /etc/stunnel/syslog-ng-client.pem
verify = 3
[5140]
accept = server IP address:5140
connect = 127.0.0.1:514
```

- On clients, create /etc/stunnel/stunnel.conf containing the following replacing server IP address accordingly:

```
client = yes
cert = /etc/stunnel/syslog-ng-client.pem
CAfile = /etc/stunnel/syslog-ng-server.pem
verify = 3
[5140]
accept = 127.0.0.1:514
connect = server IP address:5140
```

6. On server, create the following in /etc/syslog-ng.conf:

```
options { long_hostnames(off);
          sync(0);
          keep_hostname(yes);
          chain_hostnames(no); };
source src {unix-stream("/dev/log");
           pipe("/proc/kmsg");
           internal();};
```

```
source stunnel {tcp(ip("127.0.0.1")
                    port(514)
                    max-connections(1));};
destination remoteclient {file("/var/log/remoteclient");};
destination dest {file("/var/log/messages");};
log {source(src); destination(dest);};
log {source(stunnel); destination(remoteclient);};
```

On clients, create the following in `/etc/syslog-ng.conf`:

```
options {long_hostnames(off);
         sync(0);};
source src {unix-stream("/dev/log"); pipe("/proc/kmsg");
           internal();};
destination dest {file("/var/log/messages");};
destination stunnel {tcp("127.0.0.1" port(514));};
log {source(src);destination(dest);};
log {source(src);destination(stunnel);};
```

(See `syslog-ng` documentation for more sophisticated `syslog-ng.conf` alternatives.)

7. Open necessary ports with regards to packet filtering and TCP wrappers.
8. On all machines, add the following lines to boot procedure and execute them now:

```
# stunnel
# syslog-ng -f /etc/syslog-ng.conf
```

Please send questions and comments to Christian Seberino ([chris at pythonsoft dot com](mailto:chris@pythonsoft.com)).

From <http://www.stunnel.org/examples/syslog-ng.html>

```
image:rdf newsfeed //static.linuxhowtos.org/data/rdf.png (null)
|
image:rss newsfeed //static.linuxhowtos.org/data/rss.png (null)
|
image:Atom newsfeed //static.linuxhowtos.org/data/atom.png (null)
- Powered by
image:LeopardCMS //static.linuxhowtos.org/data/leopardcms.png (null)
- Running on
image:Gentoo //static.linuxhowtos.org/data/gentoo.png (null)
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image:Valid XHTML1.1 //static.linuxhowtos.org/data/xhtml.png (null)
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image:Valid CSS //static.linuxhowtos.org/data/css.png (null)
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image:buttonmaker //static.linuxhowtos.org/data/buttonmaker.png (null)
```

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