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OpenSSH SuSE 10

We have a little base of old [SuSEs](#) 10, one problem is the public services that are too old, in our case we received news that openssh and openssl are too old.

I need to compile a newer openssh and openssl version, because we can't pay extended support from [SuSE](#).

Another issue is maintain SSH alive to avoid remote access problems. We made a little trick to get working.

Compiling OpenSSL

You need to have installed compiling tools, get [SuSE](#) documentation for get the trick, we will assume that you already installed.

You need [OpenSSL](#) 1.0, because 1.1 need a newer version of Perl. We choose the newer that [OpenSSL](#) offer in the page, that is actually maintained.

```
$ wget https://www.openssl.org/source/openssl-1.0.2k.tar.gz
$ gunzip openssl-1.0.2k.tar.gz && tar xvf openssl-1.0.2k.tar
$ cd openssl-1.0.2k
$ ./config
$ make
$ sudo make install
```

Maybe you need to remove openssl-devel package to avoid the use of old library headers.

Compiling OpenSSH

You need download the Portable version of openssh, the latest version works great at the moment of write this page.

```
$ wget
http://mirrors.evowise.com/pub/OpenBSD/OpenSSH/portable/openssh-7.4p1.tar.gz
$ gunzip openssh-7.4p1.tar.gz && tar xvf openssh-7.4p1.tar
$ cd openssh-7.4p1
$ ./configure
$ make
$ sudo make install
```

If configure detects an old library remove the openssl-devel package or use `./configure --with-ssl-dir=/usr/local/ssl`

Change the daemon

Create a `/etc/init.d/opensshd` file with this content:

```
#!/bin/sh
# Copyright (c) 1995-2000 SuSE GmbH Nuernberg, Germany.
#
# Author: Jiri Smid <feedback@suse.de>
# Modified: Esteban Monge <estebanmonge@riseup.net>
# /etc/init.d/opensshd
#
#
### BEGIN INIT INFO
# Provides: opensshd
# Required-Start: $network $remote_fs
# Required-Stop: $network $remote_fs
# Default-Start: 3 5
# Default-Stop: 0 1 2 6
# Description: Start the sshd daemon
### END INIT INFO

SSHD_BIN=/usr/local/sbin/sshd
test -x $SSHD_BIN || exit 5

SSHD_SYSCONFIG=/etc/sysconfig/ssh
test -r $SSHD_SYSCONFIG || exit 6
. $SSHD_SYSCONFIG

SSHD_PIDFILE=/var/run/opensshd.init.pid

. /etc/rc.status

# Shell functions sourced from /etc/rc.status:
# rc_check check and set local and overall rc status
# rc_status check and set local and overall rc status
# rc_status -v ditto but be verbose in local rc status
# rc_status -v -r ditto and clear the local rc status
# rc_failed set local and overall rc status to failed
# rc_reset clear local rc status (overall remains)
# rc_exit exit appropriate to overall rc status

# First reset status of this service
rc_reset

case "$1" in
    start)
        if ! grep -q '^[[:space:]]*HostKey[[:space:]]'
/usr/local/etc/ssh/sshd_config; then
            if ! test -f /etc/ssh/ssh_host_key ; then
                echo Generating /etc/ssh/ssh_host_key.
                ssh-keygen -t rsa1 -b 1024 -f /etc/ssh/ssh_host_key -N
            ..
            fi
```

```
        if ! test -f /etc/ssh/ssh_host_dsa_key ; then
            echo Generating /etc/ssh/ssh_host_dsa_key.
            ssh-keygen -t dsa -b 1024 -f /etc/ssh/ssh_host_dsa_key -
N ''
        fi
        if ! test -f /etc/ssh/ssh_host_rsa_key ; then
            echo Generating /etc/ssh/ssh_host_rsa_key.
            ssh-keygen -t rsa -b 1024 -f /etc/ssh/ssh_host_rsa_key -
N ''
        fi
    fi
    echo -n "Starting SSH daemon"
    ## Start daemon with startproc(8). If this fails
    ## the echo return value is set appropriate.

    startproc -f -p $SSHD_PIDFILE $SSHD_BIN $SSHD_OPTS -o
"PidFile=$SSHD_PIDFILE"

    # Remember status and be verbose
    rc_status -v
    ;;
stop)
    echo -n "Shutting down SSH daemon"
    ## Stop daemon with killproc(8) and if this fails
    ## set echo the echo return value.

    killproc -p $SSHD_PIDFILE -TERM $SSHD_BIN

    # Remember status and be verbose
    rc_status -v
    ;;
try-restart)
    ## Stop the service and if this succeeds (i.e. the
    ## service was running before), start it again.
    $0 status >/dev/null && $0 restart

    # Remember status and be quiet
    rc_status
    ;;
restart)
    ## Stop the service and regardless of whether it was
    ## running or not, start it again.
    $0 stop
    $0 start

    # Remember status and be quiet
    rc_status
    ;;
force-reload|reload)
    ## Signal the daemon to reload its config. Most daemons
    ## do this on signal 1 (SIGHUP).
```

```
    echo -n "Reload service sshd"

    killproc -p $SSHD_PIDFILE -HUP $SSHD_BIN

    rc_status -v

    ;;
status)
    echo -n "Checking for service sshd "
    ## Check status with checkproc(8), if process is running
    ## checkproc will return with exit status 0.

    # Status has a slightly different for the status command:
    # 0 - service running
    # 1 - service dead, but /var/run/ pid file exists
    # 2 - service dead, but /var/lock/ lock file exists
    # 3 - service not running

    checkproc -p $SSHD_PIDFILE $SSHD_BIN

    rc_status -v
    ;;
probe)
    ## Optional: Probe for the necessity of a reload,
    ## give out the argument which is required for a reload.

    test /usr/local/etc/ssh_config -nt $SSHD_PIDFILE && echo reload
    ;;
*)
    echo "Usage: $0 {start|stop|status|try-restart|restart|force-
reload|reload|probe}"
    exit 1
    ;;
esac
rc_exit
```

Edit /usr/local/etc/ssh_config and change the port, if you have the firewall up you will need open the port:

```
#Port 22
```

To

```
Port 10001
```

Start the new ssh daemon:

```
service opensshd start
chkconfig opensshd on
```

Logout from all SSH sessions and enter with the new ssh daemon:

```
ssh -p 10001 username@ipofserver
```

Stop old ssh daemon:

```
service sshd stop  
chkconfig sshd off
```

Edit `/usr/local/etc/sshd_config` and revert the change:

```
Port 10001
```

To:

```
#Port 22
```

Finally restart again the service:

```
service opensshd restart
```

Now you can enter to the server in the normal way, maybe the ssh keys must be regenerated.

Special note for s390x

The real challenge was that our [SuSEs](#) are zLinux or s390x architecture or zEC12 server from IBM, I received this message:

```
configure: error: *** Can't find recent OpenSSL libcrypto (see config.log  
for details) ***
```

When try to compile openssh, you can make the fix with:

```
$ ./configure --build=s390x
```

References

- <https://lists.mindrot.org/pipermail/openssh-bugs/2008-April/006660.html>

From:
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Last update: **2017/02/21 23:07**

