Persistent agent

In theory, you only need to start up the agent once on the host you use to connect to other systems (e.g. your laptop) and be done with it; all requests from all your shells may be handled by the very same agent. However, this requires the proper setting of the environmental variables. Alas, there is no simple way to find out which socket an agent uses. But a little script magic will do the trick. If you use bash you can copy the following code into your .bashrc to re-use your running agent:

```
# find out how many agents we have running. If more than 1 do nothing,
# if zero, start one up and if 1, re-use it
#
z=0
PA=$(ps -u $USER |awk '$NF=="ssh-agent" { print $1 }' )
for n in $PA
do
   ((z++))
done
# No agent runs for me, so start one:
if [ $z -eq 0 ]
then
   eval $(ssh-agent)
   ssh-add
fi
# There is an agent for me, so figure out the socketname and set the
variables
# ''manually'':
if [ $z -eq 1 ]
then
   # The socket has been created by the parent process, which has a PID one
   # less than that of the running agent. The PPID is needed to determine
the
   # name of the socket. Alternately you might get the PPID from the process
   # listing.
   #
   q=$PA
   ((q--))
   # Next, we search for the matching socket. There can only be one that has
   # the PPID in it's name.
   candidate=$(ls /tmp/ssh-*/agent* |sed -n '/tmp\/ssh-
.*'$q'\/agent.'$q'$/p')
   # If what we found is a socket, set the environmental variables
   if [ -S "$candidate" ]
   then
      export SSH_AGENT_PID=$PA
```

```
export SSH AUTH SOCK=${candidate}
      ssh-add -L >/dev/null 2>&1
      if [ $? -eq 0 ]
      then
        echo "Reusing your existing ssh agent (pid is $PA)"
        unset SSH_AGENT PID
        unset SSH_AUTH_SOCK
      fi
   fi
fi
# A simple function to allow you to type ''gono <nodename> (as <identity>)''
# which will use ssh-agent forwarding to step right 'through' the
# portal to the end-node
#
gono() {
 if [ $# -eq 3 -a "$2" == "as" ]
 then
   ssh -A -t portal.lofar.eu "ssh -A $3@$1"
 else
   if [ $# -eq 1 ]
   then
     ssh -A -t portal.lofar.eu "ssh -A $1"
   else
     echo "Syntax error"
     echo "Usage: gono <nodename> as <user>"
   fi
 fi
}
```

To list the identities (keys) currently known by your ssh-agent, you can use:

```
ssh-add -L
```

Note that it is possible to FORCE the name of the socket which ssh-agent will use by specifying the -a flag. Hence, you might also consider putting the socket for your agent in your HOME directory. You could simplify the script accordingly.

Note of caution on it's usage

Note that the permissions on the socket file prevent people from accessing your agent - but on a regular Unix system the 'root' user can override these restrictions. Hence, 'root' can set SSH_AUTH_SOCK to your socket and use ssh-add to list/add/delete your keys. He can also log in on all of your systems without having to use a password. **Be warned.**

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