

# scp-on-xferlog.pl

Dieses Programm verabschiedet sich direkt nach dem Start in den Hintergrund (Dämon) und schaut dann auf Veränderungen im File /var/log/xferlog. Wird nun via FTP eine Datei hochgeladen, wird sie via SCP (passwortloses Login via Keys sollte vorher natürlich eingerichtet sein) auf die Server in @hosts kopiert. Dies ist z.B. nützlich wenn man mehrere Server in einem Loadbalancingcluster betreibt.

```
#!/usr/bin/perl
#
# 2008 Oliver Voelker <wiki(at)magenbrot.net>
#
# Dieses Script lauscht auf neue Eintraege in /var/log/xferlog und kopiert neu hochgeladene Dateien
# mit einer Verzoegerung von max. etwa 1-5 Sekunden auf die konfigurierten Hosts.
#

use strict;
use warnings;
use File::Tail;
use File::Basename;
use POSIX qw(setsid);

my $debug = 1;          # 1 = normal, 2 = extended logging
my $name = "/var/log/xferlog";    # watch this file
#my $logfile = "/dev/null";      # logfile
my $logfile = "/var/log/scp-on-xferlog";    # logfile
my @hosts = ("host1.de", "host2.de", "host3.de"); # list of hosts

# don't edit anything below this line
my $line = "";

sub daemonize {
    chdir("/") or die("Can't chdir to /: $!");
    open(STDIN, "/dev/null") or die("Can't read /dev/null: $!");
    open(STDOUT, ">>$logfile") or die("Can't write to $logfile: $!");
    open(STDERR, ">>$logfile") or die("Can't write to $logfile: $!");
    defined(my $pid = fork) or die("Can't fork: $!");
    exit if($pid);
    setsid or die("Can't start a new session: $!");
    umask(0);
}
```

```

sub sharefile {
    my ($host,$file) = @_ ;
    my $try = 0;
    my $error = 1;
    until ($error eq "" || $try == 5) {
        print localtime(time) . " Trans: $host" if($debug);
        system ("scp -1 \"$file\" root@$host:$file >/dev/null 2>&1");
        if ($? != 0 && $try eq 0) {
            my $dirname = dirname($file);
            print " - Error: Creating non-existent directory: $dirname\n" if ($debug >=2);
            system ("ssh -1 root@$host \"mkdir -p $dirname\" >/dev/null 2>&1");
            system ("scp -1 \"$file\" root@$host:$file >/dev/null 2>&1");
            $try++;
        } elsif ($? != 0 && $try >= 0) {
            $error=$error . " " . $host;
            print " - failed: $!\n" if ($debug);
            sleep 2;
            $try++;
        }
        else {
            print " - ok\n" if ($debug);
            $error="";
        }
    }
    return $error;
}

# flush the buffer
$_ = 1;

# daemonize the program
&daemonize;

my $log = File::Tail->new(name => $name, maxinterval => 5, adjustafter => 10);
while (defined($line = $log->read)) {
    my (undef, undef, undef, undef, undef, undef, undef, undef, $file) = split(/ /, $line);
    my $count = 0;
    my $error = "1";

```

```
until (-f $file || $count eq 5) {
    # we'll wait max 5*2 seconds for the transfer of the file to complete
    print localtime(time) . "Info: File does not exist yet: $file\n";
    sleep 2;
    $count++;
}
```

```
my ($dev,$ino,$mode,$nlink,$uid,$gid,$rdev,$size,$atime,$mtime,$ctime,$blksize,$blocks)=stat($file) if
($debug >= 2);
```

```
print localtime(time) . "File: $file Size: $size Access: " . scalar localtime($atime) . " Modified: " . scalar
localtime($mtime) . "\n" if ($debug >= 2);
```

```
# copy files
foreach (@hosts) {
    $error=sharefile($_,$file);
}
```

```
if ($error eq "") {
    print localtime(time) . " Shared: $file\n" if ($debug);
} else {
    print localtime(time) . " Error: $file was not copied to: $error\n";
}
}
```

nützlich ist dann noch das Initscript, welches sich um den Start des Dämons beim Booten kümmert:

```
#!/bin/bash
#
# scp-on-xferlog      Starts scp-on-xferlog.
#
#
# chkconfig: 2345 12 88
# description: scp-on-xferlog is used to copy new transferred files (from xferlog) to other configured hosts
#
### BEGIN INIT INFO
# Provides: $scp-on-xferlog
### END INIT INFO

# Source function library.
. /etc/init.d/functions
```

```
[ -f /usr/local/sbin/scp-on-xferlog.pl ] || exit 0
```

```
RETVAL=0
```

```
start() {
```

```
    echo -n "Starting scp-on-xferlog: "
```

```
    daemon /usr/local/sbin/scp-on-xferlog.pl
```

```
    RETVAL=$?
```

```
    echo
```

```
    [ $RETVAL -eq 0 ] && touch /var/lock/subsys/scp-on-xferlog
```

```
    return $RETVAL
```

```
} 
```

```
stop() {
```

```
    echo -n "Shutting down scp-on-xferlog: "
```

```
    killproc scp-on-xferlog.pl
```

```
    echo
```

```
    RETVAL=$?
```

```
    [ $RETVAL -eq 0 ] && rm -f /var/lock/subsys/scp-on-xferlog
```

```
    return $RETVAL
```

```
}
```

```
rhstatus() {
```

```
    status scp-on-xferlog.pl
```

```
}
```

```
restart() {
```

```
    stop
```

```
    start
```

```
} 
```

```
case "$1" in
```

```
    start)
```

```
        start
```

```
;;
```

```
    stop)
```

```
        stop
```

```
;;
```

```
status)
    rhstatus
;;
restart)
    restart
;;
*)
echo $"Usage: $0 {start|stop|status|restart}"
exit 1
esac

exit $?
```

und die Datei für's Logrotate:

```
/var/log/scp-on-xferlog {
    daily
    missingok
    notifempty
    postrotate
    /etc/init.d/scp-on-xferlog restart
    endscrip
}
```

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