Secure Shell (ssh) with no password, crontabs for automatic jobs and emacs tramp for remote editing
Cygwin

Get that Linux feeling - on Windows!

This is the home of the Cygwin project

What...

...is it?
Cygwin is:
- a collection of tools which provide a...

...isn't it?
Cygwin is not:
- a way to run native Linux apps on
conch (1) - Conch SSH client
git-shell (1) - Restricted login shell for Git-only SSH access
gnome-ssh-askpass (1) - prompts a user for a passphrase using GNOME
hg-ssh (8) - restricted ssh login shell for Mercurial
Net::DNS::RR::SSHFP (3pm) - DNS SSHFP resource record
rlogin (1) - OpenSSH SSH client (remote login program)
rsh (1) - OpenSSH SSH client (remote login program)
slogin (1) - OpenSSH SSH client (remote login program)
ssh (1) - OpenSSH SSH client (remote login program)
ssh-add (1) - adds private key identities to the authentication agent
ssh-agent (1) - authentication agent
ssh-argv0 (1) - replaces the old ssh command-name as hostname handling
ssh-askpass (1) - prompts a user for a passphrase using GNOME
ssh-copy-id (1) - install your public key in a remote machine's authoriz...
ssh-keygen (1) - authentication key generation, management and conversion
ssh-keyscan (1) - gather ssh public keys
ssh-keysign (8) - ssh helper program for host-based authentication
ssh-pkcs11-helper (8) - ssh-agent helper program for PKCS#11 support
ssh-vulnkey (1) - check blacklist of compromised keys
ssh_config (5) - OpenSSH SSH client configuration files
tkconch (1) - connect to SSH servers graphically
researchtools@ubuntu:~$
NAME
ssh - OpenSSH SSH client (remote login program)

SYNOPSIS
ssh [-1246AacfgKkMNnqsTvVxXyY] [-b bind_address] [-c cipher_spec]
[-i identity_file] [-L [bind_address:]port:host:hostport]
[-l login_name] [-m mac_spec] [-o ctl_cmd] [-o option] [-p port]
[-R [bind_address:]port:host:hostport] [-S ctl_path] [-W host:port]
[-w local_tun[:remote_tun]] [user@]hostname [command]

DESCRIPTION
ssh (SSH client) is a program for logging into a remote machine and for
executing commands on a remote machine. It is intended to replace rlogin
and rsh, and provide secure encrypted communications between two
untrusted hosts over an insecure network. X11 connections and arbitrary
TCP ports can also be forwarded over the secure channel.

ssh connects and logs into the specified hostname (with optional user
Manual page ssh(1) line 1
researchtools@ubuntu:~

File Edit View Search Terminal Help

ssh-copy-id (1)  - install your public key in a remote machine's authoriz...
ssh-keygen (1)  - authentication key generation, management and conversion
ssh-keyscan (1)  - gather ssh public keys
ssh-keysign (8)  - ssh helper program for host-based authentication
ssh-pkcs11-helper (8)  - ssh-agent helper program for PKCS#11 support
ssh-vulnkey (1)  - check blacklist of compromised keys
ssh_config (5)  - OpenSSH SSH client configuration files
tkconch (1)  - connect to SSH servers graphically

researchtools@ubuntu:~$ man ssh
researchtools@ubuntu:~$ ls -la | grep ssh
-rw------- 1 researchtools researchtools 188 2011-12-01 14:06 .lessshost
researchtools@ubuntu:~$ hostname
ubuntu
researchtools@ubuntu:~$ ssh researchtools.com.nh
The authenticity of host 'researchtools.com.nh (192.168.2.28)' can't be established.
Are you sure you want to continue connecting (yes/no)? ^C
researchtools@ubuntu:~$ ssh researchtools.com.nh
The authenticity of host 'researchtools.com.nh (192.168.2.28)' can't be established.
Are you sure you want to continue connecting (yes/no)?
Are you sure you want to continue connecting (yes/no)? ^C
researchtools@ubuntu:~$ ssh researchtools.ccom.nh
The authenticity of host 'researchtools.ccom.nh (192.168.2.28)' can't be established.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'researchtools.ccom.nh,192.168.2.28' (ECDSA) to the list of known hosts.

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**WARNING****WARNING****WARNING**
researchtools@researchtools.ccom.nh's password:
researchtools@researchtools:~
File Edit View Search Terminal Help

researchtools@researchtools.com.nh's password:
Welcome to Ubuntu 11.04 (GNU/Linux 2.6.38-8-generic-pae i686)

* Documentation:  https://help.ubuntu.com/

System information as of Mon Dec 26 12:51:19 EST 2011

System load:  0.0  Processes:  93
Usage of /home:  1.5% of 21.54GB  Users logged in:  0
Memory usage:  55%  IP address for eth0: 192.168.2.28
Swap usage:  0%

Graph this data and manage this system at https://landscape.canonical.com/
New release 'oneiric' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Mon Dec 26 12:00:35 2011 from 192.168.12.103
researchtools@researchtools:~$ hostname
researchtools
researchtools@researchtools:~$ who
researchtools pts/0 2011-12-26 12:51 (192.168.12.104)
researchtools@researchtools:~$
researchtools@ubuntu:~

File  Edit  View  Search  Terminal  Help

|1|S/zk35YkJETvjcBFK7TFRl2fKKA|=|kh0H1lRuJxNE6zeapa5NSiGfX5c|=|ecdsa-sha2-nistp256|AAAAE2VjZHhLXhYoYTI
|tbmlzdHAYhNTYAAAAbBBIGCHLJk1hdFT6YFeZPMZASZyfKnKeVYb+3DUiGK1qxjoo+MWylRLx6H7p2gFC8ph
|y1kzUVfsGIEtpI6L3Rjk=|1|ckz665cR2kGvsN19/16Jl+aZ+y=|4VXoYwe13Q6Up9H7G8HwQYBF6G4|=|ecdsa-sha2-nistp256|AAAAE2VjZHhLXhYoYTI
|tbmlzdHAYhNTYAAAAbBBIGCHLJk1hdFT6YFeZPMZASZyfKnKeVYb+3DUiGK1qxjoo+MWylRLx6H7p2gFC8ph
|y1kzUVfsGIEtpI6L3Rjk=.ssh/known hosts (END)
researchtools@ubuntu:~$
researchtools@ubuntu:~$ hostname
researchtools
researchtools@ubuntu:~$ who
researchtools pts/0 2011-12-26 12:51 (192.168.12.104)
researchtools@ubuntu:~$ uptime
12:51:45 up 91 days, 21:46, 2 users, load average: 0.00, 0.01, 0.05
researchtools@ubuntu:~$ exit
logout
researchtools@ubuntu:~$ hostname
ubuntu
researchtools@ubuntu:~$ ls -la | grep -i ssh
-rwx------ 1 researchtools researchtools 188 2011-12-01 14:06 .lesshst
drwx------ 2 researchtools researchtools 4096 2011-12-26 12:50 .ssh
researchtools@ubuntu:~$ man chmod
researchtools@ubuntu:~$ ls -la .ssh
total 12
drwx------ 2 researchtools researchtools 4096 2011-12-26 12:50 .
drwxr-xr-x 41 researchtools researchtools 4096 2011-12-26 12:50..
-rw-r--r-- 1 researchtools researchtools 444 2011-12-26 12:50 known_hosts
researchtools@ubuntu:~$ less .ssh/known_hosts
researchtools@ubuntu:~$ man ssh-keygen
NAME
ssh-keygen – authentication key generation, management and conversion

SYNOPSIS
ssh-keygen [-q] [-b bits] -t type [-N new passphrase] [-C comment] [-f output_keyfile]
ssh-keygen -i [-m key_format] [-f input_keyfile]
ssh-keygen -e [-m key_format] [-f input_keyfile]
ssh-keygen -y [-f input_keyfile]
ssh-keygen -c [-P passphrase] [-C comment] [-f keyfile]
ssh-keygen -l [-f input_keyfile]
ssh-keygen -B [-f input_keyfile]
ssh-keygen -D pkcs11
ssh-keygen -F hostname [-f known_hosts_file] [-l]
ssh-keygen -H [-f known_hosts_file]
ssh-keygen -R hostname [-f known_hosts_file]
ssh-keygen -r hostname [-f input_keyfile] [-g]
ssh-keygen -G output_file [-v] [-b bits] [-M memory] [-S start_point]
ssh-keygen -T output_file -f input_file [-v] [-a num_trials] [-W generator]

Manual page ssh-keygen(1) line 1
researchtools@ubuntu:~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/researchtools/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/researchtools/.ssh/id_rsa.
Your public key has been saved in /home/researchtools/.ssh/id_rsa.pub.
The key fingerprint is:
ca:ce:d2:ff:21:59:02:ff:e1:d9:c5:50:b3:c8:f4:77 researchtools@ubuntu
The key's randomart image is:
---[ RSA 2048]-----+
 . 0
 0 + 0
 . + 0 E
 0 0
 0 0
 .. * +
 .0 0 = .
 .0 ..
 .0 ....
researchtools@ubuntu:~$ ls -l
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAA49cZj9e1MNfcs5qW0qfnyuxN48pBq1yOHuKwDwI2RtDyUGN
Nn0oheEi7x7my+klGHMcWxX0U873HC8E/nzhrJ4rVBnnocY3CQyGy796x8evuAc7
Le0rCqovYN++g2ICNoBzoGjUIhoAmjeJxzNRYGrJWV38ioR2NpTjrDpk+fg0Quv
Lk07Q59FbrLkiONQqjFmX1bb71Ct9LTUMQWw8GvfMqY0t0ePm60hZMkeuzcHDNp
frXh+NUT4tCiuX8Zv0iiYk4Lb/XJeUQgapER9jrNe8mSYUtDr5wXjHhw1lMi/hk
fAnqFJTh2uo9vINnVtvYItPBTN/MMFXmXhH8T2ywIDAQABaoIBAQcnLPMMROgOTW/b
+vxcDCISJT4JkJ++7UaANw3CCbcXKSpWVVK3Tj0KGNJ6IzQn/3j79TL63kvYyFqgs5
nO1hf4lOKAil2cfyaV5VmIo7vbizLlwx4P1XEFGBz1WftXDUDYIHqanPw2j
0BhFPOgas8F6hC0xT0HjdGy5k47IzEvTXChfbvdMBZ3XKA4u2y3pGsWQ6YTgA+i+a
jhiIIhj9Rl03Y8s/b5U0ZmcevETbpCNBYDrCfTv2z4AqzSnhqWcPoej5Lh2
iTjYBmcnRIO47j2PrG/yRmJCWb+aMRwUgqeyDiyXP5ymFM1i5htDvdlaFwoDreAy
46GepE4+jAoGAPGCZCDm+mgW4G0CtPd3szqtwVKLFZw2n92ug77ZL1kYF0u5Q0gg2
x/FHyj54nNzfhUwGjNV4cqLkK16tyjns18j9A7c/wvtL0t0jsyJkJ4YRmb7p0j3
29+eqMeLagHqyqZYMNeICWlx+Z3a2ukY7dtWwuGp87FPPj5gktg+MLrzoAGBAPFs
Hff0eibvl/qOQfatOVxNJIG9txj36DqnpnqoAYyGxv+zn1Zhu3FIIOXe3CtXzgO
Wk0KK4yns+7txGbh0FiTMLvfwwoWII/KLw6Pz9iGDkHcx3iMkoKyrTYqU5HJuH
mSXL57veijBxa0QumzPBBGv5zK11RnuozzG9LRA0GQTd+YcplNC8VBypJNJ
YhdJM19T315k03UaVdCD/7rsI+p01jhp06gq2ptLZX9+uKIWWG0q14t9aN0
h40YE4MHaO68f3AzDrVeXsrapZ087eL60dS+6wwpdDItm1nqG67yvFITvRvkJ7YI
NXKYl1rPEPDLDFq1XyLl10kCgYA1lHV5y5eJnoaNsH3tBmmY1eUHsdWwJvyyEqy
.ssh/id_rsa (file 1 of 2)
Monday, December 26, 11

```
researchtools@ubuntu:~

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ssh-rsa AAAAB3NzaC1yc2EAAADAQABAAABAQDj1xmP16Mw19yzmpZDR+fk7E3jym4GrXI4e4pYPAjZG0PJOY02fSiER4gnHua3
6SUYeZyFYc5dTzvccLwT+f0EmvhUGeehxjcJD1bLv3rHx6+4Bzst7SsJCI9g376DYgI2gHaga05QiGgCaN/Ne01FgalsZXfyKhHY
2l0os0mT5+A5C68uTTtBL0VusuSJA1CqMWZchtvuIK30tMxRBbDwa98ypjs3R4+brSHMySR67NwcM2l+teH41S3i0KK7HxXPDSKJ
iTgtv9cl64apqkRH20s17yZJli62vnBeMeHDU2UX+GR8CeouLOHa6j28g2ZW3BgI08FM38wUzGYfxPZj researchtools@ubunt
u

.ssh/id_rsa.pub (file 2 of 2) (END)
```
researchtools@ubuntu:~

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researchtools@ubuntu:~$ scp .ssh/id_rsa.pub researchtools.com.nh:

#################################################################

**WARNING** **WARNING** **WARNING**

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**WARNING** **WARNING** **WARNING**

researchtools@researchtools.com.nh's password: 
Permission denied, please try again.

researchtools@researchtools.com.nh's password: 
Permission denied, please try again.

researchtools@researchtools.com.nh's password: 
id_rsa.pub

researchtools@ubuntu:~$
**WARNING**

researchtools@researchtools.com.nh's password:
Welcome to Ubuntu 11.04 (GNU/Linux 2.6.38-8-generic-pae i686)

* Documentation:  https://help.ubuntu.com/

System information as of Mon Dec 26 13:06:17 EST 2011

  System load: 0.0  Processes: 95
  Usage of /home: 1.5% of 21.54GB  Users logged in: 0
  Memory usage: 55%  IP address for eth0: 192.168.2.28
  Swap usage: 0%

Graph this data and manage this system at https://landscape.canonical.com/
New release 'oneiric' available.
Run 'do-release-upgrade' to upgrade to it.

researchtools@researchtools:~$ hostname
researchtools
researchtools@researchtools:~$
researchtools@researchtools:~$ ssh localhost
The authenticity of host 'localhost (127.0.0.1)' can't be established.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'localhost' (ECDSA) to the list of known hosts.

**WARNING****WARNING****WARNING**

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INTERCEPTION, RECORDING, READING, COPYING, OR CAPTURING and DISCLOSURE.

**WARNING****WARNING****WARNING**
researchtools@localhost's password:
researchtools@researchtools:~$
# This is the ssh client system-wide configuration file. See
# ssh_config(5) for more information. This file provides defaults for
# users, and the values can be changed in per-user configuration files
# or on the command line.

# Configuration data is parsed as follows:
# 1. command line options
# 2. user-specific file
# 3. system-wide file
# Any configuration value is only changed the first time it is set.
# Thus, host-specific definitions should be at the beginning of the
# configuration file, and defaults at the end.

# Site-wide defaults for some commonly used options. For a comprehensive
# list of available options, their meanings and defaults, please see the
# ssh_config(5) man page.

Host *
#   ForwardAgent no
#   ForwardX11 no
/etc/ssh/ssh_config
# 1. command line options
# 2. user-specific file
# 3. system-wide file
# Any configuration value is only changed the first time it is set.
# Thus, host-specific definitions should be at the beginning of the
# configuration file, and defaults at the end.
# Site-wide defaults for some commonly used options. For a comprehensive
# list of available options, their meanings and defaults, please see the
# ssh_config(5) man page.

Host *
  # ForwardAgent no
  # ForwardX11 no
  # ForwardX11Trusted yes
  # RhostsRSAAuthentication no
  # RSAAuthentication yes
  # PasswordAuthentication yes
  # HostbasedAuthentication no
  # GSSAPIAuthentication no
  # GSSAPIDelegateCredentials no
This is a UNH CCOM computer system. UNH CCOM computer systems are provided for the processing of authorized information only. All data contained on UNH CCOM computer systems are owned by UNH CCOM and may be monitored, intercepted, recorded, read, copied, or captured in any manner and disclosed in any manner by authorized personnel. THERE IS NO RIGHT OF PRIVACY IN THIS SYSTEM. System personnel may give to law enforcement officials any potential evidence of crime found on UNH CCOM computer systems. USE OF THIS SYSTEM BY ANY USER, AUTHORIZED OR UNAUTHORIZED, CONSTITUTES CONSENT TO THIS MONITORING, INTERCEPTION, RECORDING, READING, COPYING, OR CAPTURING and DISCLOSURE.

**WARNING**

<table>
<thead>
<tr>
<th>Filesystem</th>
<th>Size</th>
<th>Used</th>
<th>Avail</th>
<th>Use%</th>
<th>Mounted on</th>
</tr>
</thead>
<tbody>
<tr>
<td>/dev/mapper/home-home</td>
<td>22G</td>
<td>336M</td>
<td>21G</td>
<td>2%</td>
<td>/home</td>
</tr>
</tbody>
</table>

```
researchtools@ubuntu:~$ df -h .
```

```
Filesystem   Size  Used  Avail  Use%  Mounted on
/dev/sda1     19G   8.3G  9.5G   47%  /
researchtools@ubuntu:~$
```
researchtools@ubuntu:~$ ls -l /dev/null
crw-rw-rw- 1 root root 1, 3 2011-12-01 18:01 /dev/null
researchtools@ubuntu:~$ echo "hello world" > /dev/null
researchtools@ubuntu:~$ ls -l /dev/null
crw-rw-rw- 1 root root 1, 3 2011-12-01 18:01 /dev/null
researchtools@ubuntu:~$ ssh researchtools.com.nh "df -h ." 2> /dev/null

<table>
<thead>
<tr>
<th>Filesystem</th>
<th>Size</th>
<th>Used</th>
<th>Avail</th>
<th>Use%</th>
<th>Mounted on</th>
</tr>
</thead>
<tbody>
<tr>
<td>/dev/mapper/home-home</td>
<td>226M</td>
<td>216K</td>
<td>336M</td>
<td>2%</td>
<td>/home</td>
</tr>
</tbody>
</table>

researchtools@ubuntu:~$ ssh researchtools.com.nh "df /" 2> /dev/null | grep -v mapper

<table>
<thead>
<tr>
<th>Filesystem</th>
<th>1K-blocks</th>
<th>Used</th>
<th>Available</th>
<th>Use%</th>
<th>Mounted on</th>
</tr>
</thead>
<tbody>
<tr>
<td>/</td>
<td>19206868</td>
<td>2155036</td>
<td>16076168</td>
<td>12%</td>
<td>/</td>
</tr>
</tbody>
</table>

researchtools@ubuntu:~$ ssh researchtools.com.nh "df /" 2> /dev/null | grep -v 'mapper|Filesystem'

<table>
<thead>
<tr>
<th>Filesystem</th>
<th>1K-blocks</th>
<th>Used</th>
<th>Available</th>
<th>Use%</th>
<th>Mounted on</th>
</tr>
</thead>
<tbody>
<tr>
<td>/dev/mapper/slash-slash</td>
<td>19206868</td>
<td>2155036</td>
<td>16076168</td>
<td>12%</td>
<td>/</td>
</tr>
</tbody>
</table>

researchtools@ubuntu:~$ ssh researchtools.com.nh "df /" 2> /dev/null | egrep -v 'mapper|Filesystem'

<table>
<thead>
<tr>
<th>Filesystem</th>
<th>1K-blocks</th>
<th>Used</th>
<th>Available</th>
<th>Use%</th>
<th>Mounted on</th>
</tr>
</thead>
<tbody>
<tr>
<td>/</td>
<td>19206868</td>
<td>2155036</td>
<td>16076168</td>
<td>12%</td>
<td>/</td>
</tr>
</tbody>
</table>
CRONTAB(1)

NAME
crontab - maintain crontab files for individual users (Vixie Cron)

SYNOPSIS
crontab [ -u user ] file
    crontab [ -u user ] [ -i ] { -e | -l | -r }

DESCRIPTION
crontab is the program used to install, deinstall or list the tables used to drive the cron(8) daemon in Vixie Cron. Each user can have their own crontab, and though these are files in /var/spool/cron/crontabs, they are not intended to be edited directly.

If the /etc/cron.allow file exists, then you must be listed (one user per line) therein in order to be allowed to use this command. If the /etc/cron.allow file does not exist but the /etc/cron.deny file does exist, then you must not be listed in the /etc/cron.deny file in order to use this command.

If neither of these files exists, then depending on site-dependent configuration parameters, only the super user will be allowed to use this command, or all users will be able to use this command.

Manual page crontab(1) line 1
Instead of the first five fields, one of eight special strings may appear:

<table>
<thead>
<tr>
<th>string</th>
<th>meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>@reboot</td>
<td>Run once, at startup.</td>
</tr>
<tr>
<td>@yearly</td>
<td>Run once a year, &quot;0 0 1 1 *&quot;.</td>
</tr>
<tr>
<td>@annually</td>
<td>(same as @yearly)</td>
</tr>
<tr>
<td>@monthly</td>
<td>Run once a month, &quot;0 0 1 * *&quot;.</td>
</tr>
<tr>
<td>@weekly</td>
<td>Run once a week, &quot;0 0 * * 0&quot;.</td>
</tr>
<tr>
<td>@daily</td>
<td>Run once a day, &quot;0 0 * * *&quot;.</td>
</tr>
<tr>
<td>@midnight</td>
<td>(same as @daily)</td>
</tr>
<tr>
<td>@hourly</td>
<td>Run once an hour, &quot;0 * * * *&quot;.</td>
</tr>
</tbody>
</table>

**EXAMPLE CRON FILE**

# use /bin/bash to run commands, instead of the default /bin/sh
SHELL=/bin/bash
# mail any output to 'paul', no matter whose crontab this is
MAILTO=paul
#
Manual page crontab(5) line 122
researchtools@ubuntu:~ $ date
Mon Dec 26 13:16:58 EST 2011
researchtools@ubuntu:~ $ date --utc +%Y-%m-%d %H:%M:%S
20111226T181742Z
researchtools@ubuntu:~ $ date +%s
1324923485
researchtools@ubuntu:~ $ date --utc +%s
1324923488
researchtools@ubuntu:~ $ echo -n `date +%s`;
researchtools@ubuntu:~ $ echo -n `date +%s`; ssh researchtools.ccom.nh "df /" 2> /dev/null | egrep -v 'mapper|Filesyst
em'
1324923574 19206868 2155036 16076168 12% /
researchtools@ubuntu:~ $ echo -n `date +%s`; ssh researchtools.ccom.nh "df /" 2> /dev/null | egrep -v 'mapper|Filesyst
em' >> /home/researchtools/disk.log
researchtools@ubuntu:~ $ echo -n `date +%s`; ssh researchtools.ccom.nh "df /" 2> /dev/null | egrep -v 'mapper|Filesyst
em') >> /home/researchtools/disk.log
researchtools@ubuntu:~$
{\text{echo -n `date +%s`; ssh researchtools.ccom.nh "df /" 2> /dev/null | egrep -v ^mapper|Filesys}}t >> /home/researchtools/disk.log
researchtools@ubuntu:~$ cat disk.log
19206868 2155036 16076168 12% /
1324923649 19206868 2155036 16076168 12% /
researchtools@ubuntu:~$ rm disk.log
rm: remove regular file `disk.log'? y
researchtools@ubuntu:~$
# daemon's notion of time and timezones.

* Output of the crontab jobs (including errors) is sent through email to the user the crontab file belongs to (unless redirected).

* For example, you can run a backup of all your user accounts at 5 a.m every week with:

  ```
  0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
  ```

* For more information see the manual pages of crontab(5) and cron(8)

```
0-59 * * * * (echo -n `date +%s`; ssh researchtools.com.nh "df /" 2> /dev/null | egrep -v 'mapper|Filesys\temt') >> /home/researchtools/disk.log
```
See 'man 7 undocumented' for help when manual pages are not available.

No crontab for researchtools

No crontab for researchtools - using an empty one

crontab: installing new crontab

tail -f /var/log/syslog


Dec 26 13:16:01 ubuntu crontab[4623]: (researchtools) LIST (researchtools)

Dec 26 13:16:29 ubuntu crontab[4641]: (researchtools) BEGIN EDIT (researchtools)

Dec 26 13:17:01 ubuntu CRON[4728]: (root) CMD ( cd / && run-parts --report /etc/cron.hourly)


Dec 26 13:22:21 ubuntu crontab[4641]: (researchtools) REPLACE (researchtools)

Dec 26 13:22:21 ubuntu crontab[4641]: (researchtools) END EDIT (researchtools)
researchtools@ubuntu:~$ man 5 crontab
researchtools@ubuntu:~$ crontab -l
no crontab for researchtools
researchtools@ubuntu:~$ crontab -e
no crontab for researchtools - using an empty one
researchtools@ubuntu:~$ tail -f /var/log/syslog
Dec 26 13:16:01 ubuntu crontab[4623]: (researchtools) LIST (researchtools)
Dec 26 13:16:29 ubuntu crontab[4641]: (researchtools) BEGIN EDIT (researchtools)
Dec 26 13:17:01 ubuntu CRON[4728]: (root) CMD ( cd / & & run-parts --report /etc/cron.hourly)
Dec 26 13:22:21 ubuntu crontab[4641]: (researchtools) REPLACE (researchtools)
Dec 26 13:22:21 ubuntu crontab[4641]: (researchtools) END EDIT (researchtools)
Dec 26 13:23:01 ubuntu CRON[4988]: (researchtools) CMD ((echo -n `date +%s`; ssh researchtools.com.nh "df / 2> /dev/null | egrep -v 'mapper|Filesystem') >> /home/researchtools/disk.log)
# daemon's notion of time and timezones.

# Output of the crontab jobs (including errors) is sent through email to the user the crontab file belongs to (unless redirected).

# For example, you can run a backup of all your user accounts at 5 a.m every week with:
0 5 * * 1 tar -zcf /var/backups/home.tgz /home/

# For more information see the manual pages of crontab(5) and cron(8)

# m h dom mon dow command
0-59/5 * * * *(echo -n `date +%s`; ssh researchtools.com.nh "df /" 2> /dev/null | egrep -v 'mapper|Files\n system') >> /home/researchtools/disk.log
Mon Dec 26 13:36:00 ubuntu crontab: installing new crontab
researchtools@ubuntu:$ tail -f /var/log/syslog
Dec 26 13:16:01 ubuntu crontab[4623]: (researchtools) LIST (researchtools)
Dec 26 13:16:29 ubuntu crontab[4641]: (researchtools) BEGIN EDIT (researchtools)
dwxc-xr-x Dec 26 13:17:01 ubuntu CRON[4728]: (root) CMD ( cd / && run-parts --report /etc/cron.hourly)
dwxc-xr-x Dec 26 13:22:21 ubuntu crontab[4641]: (researchtools) REPLACE (researchtools)
dwxc-xr-x Dec 26 13:22:21 ubuntu crontab[4641]: (researchtools) END EDIT (researchtools)

Welcome to GNU Emacs, one component of the GNU/Linux operating system.

- Emacs Tutorial
- Emacs Guided Tour
- View Emacs Manual

Learn basic keystroke commands
Overview of Emacs features at gnu.org
View the Emacs manual using Info

Find file: /ssh:researchtools.com:nh:
* Documentation: https://help.ubuntu.com/

System information as of Mon Dec 26 13:27:47 EST 2011

System load: 0.0  Processes: 98
Usage of /home: 1.5% of 21.54GB  Users logged in: 1
Memory usage: 55%  IP address for eth0: 192.168.2.28
Swap usage: 0%

Graph this data and manage this system at https://landscape.canonical.com/

New release 'oneiric' available.
Run 'do-release-upgrade' to upgrade to it.

researchtools@researchtools:~$ ls -ltr
total 4
-rw-r--r-- 1 researchtools researchtools 9 2011-12-26 13:27 helloworld.txt
researchtools@researchtools:~$ less helloworld.txt
researchtools@researchtools:~$ hostname
researchtools
researchtools@researchtools:~$
hi there