

## Harjoitus3

### tehtävä1

```
user@AE9947-Ubuntu:~/h1$ tree -L 1
```

```
.
```

```
├─ 1
```

```
├─ dir
```

```
├─ dir1
```

```
├─ dir2
```

```
└─ dir3
```

```
user@AE9947-Ubuntu:~/h1/dir2$ nano file1.txt
```

```
user@AE9947-Ubuntu:~/h1/dir2$ nano file2.txt
```

## tehtävä2

```
GNU nano 4.8 file3.txt
p e v ä ä

Save file under DIFFERENT NAME?
Y Yes
N No ^C Cancel
```

## tehtävä3

user@AE9947-Ubuntu:~\$ less .bashrc

hakutoiminto toimii / merkillä

## tehtävä4

| \\storage\homes\AE9947\Downloads\httpd-2.4.57.tar.gz\ |            |              |                  |           |          |           |
|-------------------------------------------------------|------------|--------------|------------------|-----------|----------|-----------|
| Nimi                                                  | Koko       | Pakattu koko | Muokattu         | Isäntä OS | CRC      | Tiedostot |
| httpd-2.4.57-rc1.tar                                  | 44 403 200 | 9 773 385    | 2023-04-02 19:05 | Unix      | AA60357D |           |

## tehtävä5

```
l i s ä s i n   t ä m ä n   r i v i n
█
~
~
~
~
~
~
```

## tehtävä6

```
sudo tail -f /var/log/auth.log/
```

## tehtävä7

```
user@AE9947-Ubuntu:~/h1$ curl --remote-name https://fi.wikipedia.org/wiki/Funet.html
```

```
% Total % Received % Xferd Average Speed Time Time Time Current
      Dload Upload Total Spent Left Speed
100 22976 100 22976 0 0 172k 0 --:--:-- --:--:-- --:--:-- 172k
```

```
user@AE9947-Ubuntu:~/h1$ ls -la
```

```
total 48
```

```
drwxrwxr-x 5 user user 4096 Sep 20 08:19 .
```

```
drwxr-xr-x 9 user user 4096 Sep 13 10:30 ..
```

```
-rw-rw-r-- 1 user user 22976 Sep 20 08:19 Funet.html
```

```
drwxrwxr-x 2 user user 4096 Sep 13 09:45 dir1
```

```
drwxrwxr-x 2 user user 4096 Sep 13 09:46 dir2
```

```
drwxrwxr-x 2 user user 4096 Sep 13 09:45 dir3
```

```
-rw-rw-r-- 1 user user 8 Sep 13 09:51 tiedosto3.txt
```

## tehtävä8

```
user@AE9947-Ubuntu:~/h1$ curl --remote-name https://ftp.funet.fi/README
```

```
% Total % Received % Xferd Average Speed Time Time Time Current
      Dload Upload Total Spent Left Speed
```

100 18631 100 18631 0 0 324k 0 --:--:-- --:--:-- --:--:-- 324k

```
user@AE9947-Ubuntu:~/h1$ cat README
```

```
#
```

```
# Introduction to nic.funet.fi archive
```

```
#
```

```
# Status: Update in progress
```

```
# Author: staff of ftp.funet.fi
```

```
# Created: Sat Aug 22 20:31:58 1992
```

```
# Last modified: 2023-01-27
```

```
#
```

Welcome to FTP.FUNET.FI aka NIC.FUNET.FI aka BIO.NIC.FUNET.FI

It runs on two Linux servers with dual 20 core processors,  
786GB of memory and 2 x 25Gbit/s network connections.  
80+ TiB storage is provided from NetApp NFS NAS servers.

This system is owned by the finnish ministry of education  
and operated on their behalf by CSC primarily for the Finnish Academic  
and Research Network FUNET users and the Elixir Community.

It is located in the town of Espoo in Finland.

Paper mail address:

NIC.FUNET.FI coordinator

Harri Salminen

CSC

POBOX 405 (street address is Keilaranta 14)

FIN-02101 Espoo

FINLAND

<https://www.nic.funet.fi/contact>

This server group has many names. Its "staff" will always be at `nic.funet.fi`, but otherwise consider using philosophy: `name by function`, thus FTP from ftp.funet.fi.

ftp.funet.fi traditional anonymous ftp service (also with http and IPv6 support)

www.nic.funet.fi http access to our collections (shows index.html's if any)

nic.funet.fi email and other administrative tasks (in practice ftp is also supported)

rsync.nic.funet.fi rsync protocol for bulk downloads

bio.nic.funet.fi bioinformatics data and software

kernel.nic.funet.fi Linux kernel which originated from here

```
root@AE9947-Ubuntu:~# curl ftp://ftp.gnu.org/
```

```
lrwxrwxrwx 1 0 0 8 Aug 20 2004 CRYPTO.README -> .message
-rw-r--r-- 1 0 0 17864 Oct 23 2003 MISSING-FILES
-rw-r--r-- 1 0 0 4178 Aug 13 2003 MISSING-FILES.README
-rw-r--r-- 1 0 0 2748 May 23 04:58 README
-rw-r--r-- 1 0 0 405121 Oct 23 2003 before-2003-08-01.md5sums.asc
-rw-rw-r-- 1 0 3003 247460 Sep 19 22:13 find.txt.gz
drwxrwxr-x 321 0 3003 12288 Aug 06 18:30 gnu
drwxrwxr-x 3 0 3003 4096 Mar 10 2011 gnu+linux-distros
-rw-rw-r-- 1 0 3003 476603 Sep 19 22:13 ls-lrRt.txt.gz
drwxr-xr-x 3 0 0 4096 Apr 20 2005 mirrors
lrwxrwxrwx 1 0 0 11 Apr 15 2004 non-gnu -> gnu/non-gnu
```

|            |    |   |      |        |               |              |
|------------|----|---|------|--------|---------------|--------------|
| drwxr-xr-x | 99 | 0 | 0    | 4096   | May 08 20:32  | old-gnu      |
| lrwxrwxrwx | 1  | 0 | 0    |        | 1 Aug 05 2003 | pub -> .     |
| drwxr-xr-x | 2  | 0 | 0    | 4096   | Nov 08 2007   | savannah     |
| drwxr-xr-x | 2  | 0 | 0    | 4096   | Aug 02 2003   | third-party  |
| drwxr-xr-x | 2  | 0 | 0    | 4096   | Apr 07 2009   | tmp          |
| -rw-rw-r-- | 1  | 0 | 3003 | 560949 | Sep 19 22:13  | tree.json.gz |
| drwxr-xr-x | 2  | 0 | 0    | 4096   | May 07 2013   | video        |
| -rw-r--r-- | 1  | 0 | 0    | 1092   | Oct 15 2021   | welcome.msg  |