

## Linux Einführung

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1. Unix Stuff

2. Dateien Analysieren

3. Networking

1. Unix Stuff Inhalt

#### 1. Unix Stuff

```
OSTBAYERISCHE
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```

```
[me@w1n5t0n:/tmp]$ id
uid=1000(me) gid=100(users) groups=100(users),1(wheel),6(disk),17(audio),19(uucp),26(video
),31(davfs2),57(networkmanager),131(docker),999(adbusers)
```

```
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```

```
me@morpheus:~$ w
                      5:16, 2 users, load average: 0.74, 0.67, 0.75
18:28:10 up 146 days,
USER
                 FROM
                                  LOGING
                                           IDLE
        TTY
                                                  JCPU
                                                         PCPU WHAT
        pts/0
                 178.27.192.139
                                  18:28
                                           1.00s
                                                  4:34
                                                         0.00s w
me
        pts/1
                 178.27.192.139
                                  18:28
                                           1.00s
                                                  0.01s
                                                         0.01s -bash
```

## IM INFORMATIK UND MATHEMATIK MATH

MAN(1) MAN(1) Manual pager utils NAME man - an interface to the system reference manuals SYNOPSTS man [man options] [[section] page ...] ... man -k [apropos options] regexp ... man -K [man options] [section] term ... man -f [whatis options] page ... man -l [man options] file ... man -w|-W [man options] page ... DESCRIPTION man is the system's manual pager. Each page argument given to man is normally the name of a program, utility or function. The manual page associated with each of these arguments is then found and displayed. A section, if provided, will direct man to look only in that section of the manual. The default action is to search in all of the available sections following a pre-defined order (see DEFAULTS), and to show only the first page found, even if page exists in several sections.



2. Dateien Analysieren

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5. Oktober 2022

Inhalt



## Dateiinhalt einsehen

# cat Für Textdateien xxd Für Binärdateien

```
[me@w1n5t0n:/tmp]$ cat testdatei
hello, world!
```

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```
[me@w1n5t0n:/tmp]$ xxd -g 1 testdatei
00000000: 68 65 6c 6c 6f 2c 20 77 6f 72 6c 64 21 0a hello, world!.
```



- ▶ grep regex datainame
- ▶ grep --ignore-case regex datainame
- ▶ grep -F kein-regex datainame



```
[me@w1n5t0n:/tmp]$ cat testfile
abc
[me@w1n5t0n:/tmp]$ grep a testfile
a.
abc
ac
```

```
[me@w1n5t0n:/tmp]$ grep a. testfile
[me@w1n5t0n:/tmp]$ grep --ignore-case a testfile
abc
[me@w1n5t0n:/tmp]$ grep -F a. testfile
```



- Ausgabe in Datei umleiten: >
- Verketten durch pipes: I
- Ausgabe von cmdA als temporäre Datei für cmdB: cmdB <(cmdA)</p>

```
OTTH TECHNISCHE HOCHSCI
TECHNISCHE HOCHSCI
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```

```
[me@w1n5t0n:/tmp]$ grep -F a. testfile > results
[me@w1n5t0n:/tmp]$ cat results
[me@w1n5t0n:/tmp]$ curl https://example.com/index.html | grep doctype
 % Total
            % Received % Xferd Average Speed
                                                                 Time
                                                Time
                                                        Time
                                                                       Current
                                Dload Upload Total
                                                        Spent
                                                                 Left
                                                                       Speed
100
    1256
          100
              1256
                                 2219
<!doctype html>
```



```
[me@w1n5t0n:/tmp]$ grep -F a. <(cat testfile)
a.</pre>
```



```
[me@w1n5t0n:/tmp]$ strings -n 10 /bin/sh
/nix/store/v6szn6fczjbn54h7y40aj7gjijg7j6dc-glibc-2.34-210/lib/ld-linux-x86-64.so.2
__qmon_start__
rl filename stat hook
history write timestamps
rl_get_termcap
write history
rl_vi_editing_mode
rl_completion_quote_character
rl vi start inserting
history_set_pos
rl redraw prompt last line
rl_terminal_name
rl startup hook
sh_unset_nodelay_mode
rl_function_of_keyseq_len
rl_readline_name
```

3. Networking Inhalt

## 3. Networking



```
[me@w1n5t0n:/tmp]$ nmap example.com
Starting Nmap 7.92 ( https://nmap.org ) at 2022-10-03 18:21 CEST
Nmap scan report for example.com (93.184.216.34)
Host is up (0.20s latency).
Other addresses for example.com (not scanned): 2606:2800:220:1:248:1893:25c8:1946
Not shown: 996 filtered top ports (no-response)
PORT
        STATE
               SERVICE
80/tcp
        open
               http
443/tcp open https
1119/tcp closed bnetgame
1935/tcp closed rtmp
Nmap done: 1 IP address (1 host up) scanned in 16.55 seconds
```

#### DNS Lookups - dig

```
[me@w1n5t0n:/tmp]$ dig +nocomments example.com
 <>>> DiG 9.18.7 <<>> +nocomments example.com
:: global options: +cmd
example.com.
                                IN
                                TN
                                                 93.184.216.34
example.com.
                        85858
;; Query time: 0 msec
  SERVER: 127.0.0.1#53(127.0.0.1) (UDP)
  WHEN: Mon Oct 03 18:19:32 CEST 2022
  MSG SIZE rcvd: 56
[me@w1n5t0n:/tmp]$ dig AAAA +nocomments example.com
 <>>> DiG 9.18.7 <<>> AAAA +nocomments example.com
:: qlobal options: +cmd
                                        AAAA
;example.com.
                                TN
example.com.
                        85854
                                IN
                                        AAAA
                                                2606:2800:220:1:248:1893:25c8:1946
:: Ouerv time: 1 msec
  SERVER: 127.0.0.1#53(127.0.0.1) (UDP)
  WHEN: Mon Oct 03 18:19:36 CEST 2022
  MSG SIZE rcvd: 68
```

4. Quellen

Quellen