

# Disko 3

- Same logic, it's just that this time it's FAT32 distro, and the flag is hidden in a deleted file called flag.gz...
- We copy its features to a new file we create and we extract it...

```
Kali Linux [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
capscorpion142@asaad: ~/Desktop/Autoformation/CTFs/PicoCTF/Disko 3
zsh: corrupt history file /home/capscorpion142/.zsh_history
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ gzip disko-3.dd.gz
gzip: disko-3.dd.gz already has .gz suffix -- unchanged
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ gunzip disko-3.dd.gz
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ ls
disko-3.dd
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ strings -td disko-3.dd | grep pico
10074662 pico questa partici
10078477 Description-it.UTF-8: Utilizzo tipico di questa partizione:
10087641 pico questa part
10267589 Description-it.UTF-8: Utilizzo tipico:
10268827 pico:
16511904 Aug 30 01:59:37 debootstrap: update-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in auto mode
16617804 Aug 30 02:00:42 in-target: mailx | mailutils snmptrapd libtbspico-utils espeak mbrola
48188912 MESSAGE=[system] Activating via systemd: service name='org.bluez' unit='dbus-org.bluez.service' requested by ':1.81' (uid=1000 pid=12105 comm="/usr/share/cod
e/Desktop/picoctf-2025")
49777336 MESSAGE=[system] Activating via systemd: service name='org.bluez' unit='dbus-org.bluez.service' requested by ':1.66' (uid=1000 pid=43129 comm="/usr/share/cod
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52784336 MESSAGE=[system] Activating via systemd: service name='org.bluez' unit='dbus-org.bluez.service' requested by ':1.65' (uid=1000 pid=2584 comm="/usr/share/code
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(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ mm1s disko-3.dd
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ ls
disko-3.dd
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ mm1s disko-3.dd
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ mm1s -t gpt disko-3.dd
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
```

```
Kali Linux [En fonction] - Oracle VM VirtualBox
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(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ mm1s disko-3.dd
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ ls
disko-3.dd
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ mm1s disko-3.dd
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
$ mm1s -t gpt disko-3.dd
(capscorpion142@asaad) [~/.../Autoformation/CTFs/PicoCTF/Disko 3]
```

Kali Linux [En fonction] - Oracle VM VirtualBox

Fichier Machine Écran Entrée Périphériques Aide

File Actions Edit View Help

ls disko-3.dd

(capscorpion142@asaad) [~/.Autoformation/CTFs/PicoCTF/Disko 3]

mmls disko-3.dd

(capscorpion142@asaad) [~/.Autoformation/CTFs/PicoCTF/Disko 3]

mmls -t gpt disko-3.dd

Invalid magic value (GPT Header: 0)

(capscorpion142@asaad) [~/.Autoformation/CTFs/PicoCTF/Disko 3]

strings disko-3.dd | tr -d '\n' | grep -o 'picoCTF{.\*}'

# Extract all ASCII characters (0x20-0x7E) from the file

tr -cd '\11\12\15\40-\176' < disko-3.dd | grep -o 'picoCTF{.\*}'

(capscorpion142@asaad) [~/.Autoformation/CTFs/PicoCTF/Disko 3]

fsstat disko-3.dd

FILE SYSTEM INFORMATION

File System Type: FAT32

OEM Name: mkfs.fat

Volume ID: 0x49838d0b

Volume Label (Boot Sector): NO NAME

Volume Label (Root Directory):

File System Type Label: FAT32

Next Free Sector (FS Info): 36434

Free Sector Count (FS Info): 1375

Sectors before file system: 0

FILE SYSTEM LAYOUT (in sectors)

Total Range: 0 - 204799

\* Reserved: 0 - 31

\*\* Boot Sector: 0

\*\* FS Info Sector: 1

\*\* Backup Boot Sector: 6

\* FAT 0: 32 - 1607

\* FAT 1: 1608 - 3183

\* Data Area: 3184 - 204799

\*\* Cluster Area: 3184 - 204799

\*\* Root Directory: 3184 - 3184

METADATA INFORMATION

Range: 2 - 3225862

Root Directory: 2

CONTENT INFORMATION

Sector Size: 512

Cluster Size: 512

Total Cluster Range: 2 - 201617

FAT CONTENTS (in sectors)

3184-3184 (1) → EOF

Rechercher

Kali Linux [En fonction] - Oracle VM VirtualBox

Fichier Machine Écran Entrée Périphériques Aide

File Actions Edit View Help

mkfs.fat

Volume ID: 0x49838d0b

Volume Label (Boot Sector): NO NAME

Volume Label (Root Directory):

File System Type Label: FAT32

Next Free Sector (FS Info): 36434

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METADATA INFORMATION

Range: 2 - 3225862

Root Directory: 2

CONTENT INFORMATION

Sector Size: 512

Cluster Size: 512

Total Cluster Range: 2 - 201617

FAT CONTENTS (in sectors)

3184-3184 (1) → EOF

Rechercher

Kali Linux [En fonction] - Oracle VM VirtualBox

Fichier Machine Écran Entrée Périphériques Aide

File Actions Edit View Help

```
85947-200634 (114688) → EOF
200635-204794 (4160) → EOF
204795-204799 (5) → EOF
```

(capscorpion142@asaad:[~/.../Autoformation/CTFs/PicoCTF/Disko 3])

```
$ fls -r -f fat disk0-3.dd
```

```
d/d 4: log
+ d/d 22: private
+ d/d 24: sysstat
+ d/d 26: stunnel4
++ r/r 70: stunnel.log
+ d/d 28: mysql
+ d/d 30: inetsim
++ d/d 102: report
+ d/d 32: installer
++ d/d 134: cdebcnfg
+++ r/r 150: questions.dat
+++ r/r 152: templates.dat
++ r/r 136: Xorg.0.log
++ r/r 138: partman
++ r/r 140: syslog
++ r/r 143: hardware-summary
++ r/r 145: status
++ r/r 519091: lsb-release
+ r/r 519123: vmware-vmsvc-root.2.log
+ r/r 519125: kern.log.4.gz
+ r/r 519127: Xorg.0.log
+ r/r 519130: vmware-network.4.log
+ r/r 519132: boot.log
+ r/r 519134: syslog.3.gz
+ r/r 519137: vmware-toolsd-root.log
+ r/r 522627: daemon.log
+ r/r 522628: flag.gz
+ r/r * 522629: ESSAGES
+ r/r 522632: alternatives.log.2.gz
+ r/r 522634: debug
```

Windows Taskbar: Rechercher, Fichier, Écran, Entrée, Périphériques, Aide, 1, 2, 3, 4, Vivaldi, 20:25, 22/01/2026

Kali Linux [En fonction] - Oracle VM VirtualBox

Fichier Machine Écran Entrée Périphériques Aide

File Actions Edit View Help

```
+++ r/r 3225815: user-1000@94309907b19d4653afc79e24b6eec039-00000000000005b4-0005e76be8304b42.journal
+++ r/r 3225820: system@00000504e6fd33237-813b83aec0062020.journal~
+++ r/r 3225828: user-1000@185d88d5eb13416d80fa5cb1c5faf4d0-00000000000002374d-00062eff8e6c0038.journal
+++ r/r 3225836: system@fe486893ffe4006869e03921fc0c32-000000000000058b3-0006054edc51935b.journal
+++ r/r 3225844: user-1000@fe486893ffe4006869e03921fc0c32-000000000000058b2-0006054edc4fe35c.journal
+++ r/r 3225849: user-1000@0006054e70c65fc3-7af43b1c79f1269a.journal-
+++ r/r 3225857: system@7a442d5ca4df4e0f9507094c9269ca6a-0000000000000605c-0006054ee0dded41.journal
+ r/r 603184: vmware-network.log
+ r/r 603186: dpkg.log.2.gz
v/v 3225859: $MBR
v/v 3225860: $FAT1
v/v 3225861: $FAT2
V/V 3225862: $OrphanFiles
```

Glory of the Garden DISKO 3 DISKO 2

(capscorpion142@asaad:[~/.../Autoformation/CTFs/PicoCTF/Disko 3])

```
$ ls
```

(capscorpion142@asaad:[~/.../Autoformation/CTFs/PicoCTF/Disko 3])

```
$ icat -f fat disk0-3.dd 522628 > flag.gz
```

(capscorpion142@asaad:[~/.../Autoformation/CTFs/PicoCTF/Disko 3])

```
$ gunzip flag.gz
```

(capscorpion142@asaad:[~/.../Autoformation/CTFs/PicoCTF/Disko 3])

```
$ ls
```

(capscorpion142@asaad:[~/.../Autoformation/CTFs/PicoCTF/Disko 3])

```
$ cat flag
```

Here is your flag  
picoCTF{n3v3r\_z1p\_2\_h1d3\_7e0a17da}

(capscorpion142@asaad:[~/.../Autoformation/CTFs/PicoCTF/Disko 3])

```
$
```

Windows Taskbar: Rechercher, Fichier, Écran, Entrée, Périphériques, Aide, 1, 2, 3, 4, Vivaldi, 20:25, 22/01/2026