

DietPi CTF Project Structure — Versi Lengkap

Dokumen ini berisi struktur lengkap project DietPi CTF, termasuk seluruh script, tabel penjelasan, dan struktur direktori. File ini digunakan sebagai dokumentasi resmi sistem CTF berbasis DietPi.

1. Struktur Direktori Utama

Lokasi	Keterangan
/usr/local/bin/	Berisi seluruh script CTF.
/etc/profile.d/	Orchestrator otomatis setelah login.
/etc/systemd/system/	Service reset otomatis saat shutdown.
/srv/ftp/	Folder flag (tmpfs).
/var/www/html/	Folder flag (tmpfs).
/srv/samba/share1/	Folder flag (tmpfs).
/srv/samba/share2/	Folder flag (tmpfs).
/etc/flags/	Folder flag (tmpfs).
/opt/app1/	Folder flag (tmpfs).
/opt/app2/	Folder flag (tmpfs).
/var/log/flags/	Folder flag (tmpfs).
/usr/local/share/flags/	Folder flag (tmpfs).
/home/ctf/	Folder flag (tmpfs).

2. Script Input Kelompok

Lokasi file: /usr/local/bin/01-input-kelompok.sh

Script:

```
#!/bin/bash
if [ -f /etc/ctf_flags_generated ]; then
exit 0
fi

echo " "
echo "===== "
echo " INPUT NAMA KELOMPOK UNTUK CTF"
echo "===== "
read -p "Masukkan Nama Kelompok: " GROUP

echo "$GROUP" > /etc/ctf_groupname
touch /etc/ctf_flags_generated
```

```
echo "[✓] Nama kelompok disimpan: $GROUP"
```

3. Script Generate Flags

Lokasi file: /usr/local/bin/02-generate-flags.sh

Script:

```
#!/bin/bash

if [ ! -f /etc/ctf_groupname ]; then
echo "[!] Nama kelompok belum diset!"
exit 1
fi

GROUP=$(cat /etc/ctf_groupname)

FLAG_DIRS=(
"/srv/ftp"
"/var/www/html"
"/srv/samba/share1"
"/srv/samba/share2"
"/etc/flags"
"/opt/app1"
"/opt/app2"
"/var/log/flags"
"/usr/local/share/flags"
"/home/ctf"
)

mkdir -p /home/ctf

for i in {1..10}; do
INDEX=$(printf "%02d" $i)
FLAG="smkctf${GROUP}_fl4g_${INDEX}_"

case $i in
1) FLAG+="1s_34sy}" ;;
2) FLAG+="t00_34sy}" ;;
3) FLAG+="m0r3_fun}" ;;
4) FLAG+="k33p_g01ng}" ;;
5) FLAG+="h4lf_w4y}" ;;
6) FLAG+="b4s364_lv11}" ;;
```

```

7) FLAG+="b4s364_lv12}" ;;
8) FLAG+="b4s364_lv13}" ;;
9) FLAG+="n3xt_st3p}" ;;
10) FLAG+="1ts_0v3r}" ;;
esac

if [ $i -ge 6 ]; then
OUT=$(echo -n "$FLAG" | base64)
else
OUT="$FLAG"
fi

DIR=${FLAG_DIRS[$((i-1))]}
mkdir -p "$DIR"
echo "$OUT" > "$DIR/flag.txt"
done

echo "[✓] Semua flag berhasil dibuat."

```

4. Script Checker

Lokasi file: /usr/local/bin/03-checker.sh

Script:

```

#!/bin/bash

GREEN="\033[0;32m"
RED="\033[0;31m"
NC="\033[0m"

FLAG_DIRS=(
"/srv/ftp"
"/var/www/html"
"/srv/samba/share1"
"/srv/samba/share2"
"/etc/flags"
"/opt/app1"
"/opt/app2"
"/var/log/flags"
"/usr/local/share/flags"
"/home/ctf"
)

```

```

echo "==== CHECKER CTF ====="

if [ -f /etc/ctf_groupname ]; then
echo -e "${GREEN}[PASS]${NC} Nama kelompok: $(cat /etc/ctf_groupname)"
else
echo -e "${RED}[FAIL]${NC} Nama kelompok belum diinput"
fi

echo ""

for d in "${FLAG_DIRS[@]"; do
if [ -d "$d" ]; then
echo -e "${GREEN}[FOLDER OK]${NC} $d"
else
echo -e "${RED}[FOLDER MISSING]${NC} $d"
continue
fi

if [ -f "$d/flag.txt" ]; then
echo -e " ${GREEN}[FLAG OK]${NC} $d/flag.txt"
else
echo -e " ${RED}[FLAG MISSING]${NC} $d/flag.txt"
fi
done

echo "==== CHECK SELESAI ====="

```

5. Script Reset

Lokasi file: /usr/local/bin/04-reset.sh

Script:

```

#!/bin/bash

FLAG_DIRS=(
"/srv/ftp"
"/var/www/html"
"/srv/samba/share1"
"/srv/samba/share2"
"/etc/flags"
"/opt/app1"
"/opt/app2"

```

```

"/var/log/flags"
"/usr/local/share/flags"
"/home/ctf"
)

rm -f /etc/ctf_groupname
rm -f /etc/ctf_flags_generated

for d in "${FLAG_DIRS[@]"; do
rm -f "$d/flag.txt"
done

echo "[✓] Semua flag & data kelompok telah dihapus."

```

6. Script Orchestrator

Lokasi file: /etc/profile.d/ctf_auto.sh

Script:

```

#!/bin/bash

if [ -f /etc/ctf_flags_generated ]; then
return
fi

echo ""
echo "====="
echo " INPUT NAMA KELOMPOK UNTUK CTF"
echo "====="
read -p "Masukkan Nama Kelompok: " GROUP

echo "$GROUP" > /etc/ctf_groupname
touch /etc/ctf_flags_generated

/usr/local/bin/02-generate-flags.sh
/usr/local/bin/03-checker.sh

echo "[✓] Selesai."

```

7. Systemd Shutdown Service

Lokasi file: /etc/systemd/system/ctf-reset.service

Script:

[Unit]

Description=Reset Flag CTF Saat Shutdown

DefaultDependencies=no

Before=shutdown.target reboot.target halt.target

[Service]

Type=oneshot

ExecStart=/usr/local/bin/04-reset.sh

[Install]

WantedBy=shutdown.target reboot.target halt.target