

# THE ECHOES

# Description:

Null

1. Filter icmp with the Echo (ping) reply only with the query of :

### icmp.type==0

Time Source	Destination	Protocol	Length Info	
2 2024-12-10 06:32:24.906407 127.0.0.1	127.0.0.1	ICMP	60 Echo (ping) reply	id=0x0000, seq=0/0, ttl=64 (request in 1)
4 2024-12-10 06:32:24.907945 127.0.0.1	127.0.0.1	ICMP	28 Echo (ping) reply	id=0x0000, seq=0/0, ttl=64 (request in 3)
6 2024-12-10 06:32:24.908946 127.0.0.1	127.0.0.1	ICMP	60 Echo (ping) reply	id=0x0000, seq=0/0, ttl=64 (request in 5)
8 2024-12-10 06:32:24.908946 127.0.0.1	127.0.0.1	ICMP	28 Echo (ping) reply	id=0x0000, seq=0/0, ttl=64 (request in 7)
10 2024-12-10 06:32:24.910451 127.0.0.1	127.0.0.1	ICMP	60 Echo (ping) reply	id=0x0000, seq=0/0, ttl=64 (request in 9)
12 2024-12-10 06:32:24.911455 127.0.0.1	127.0.0.1	ICMP	60 Echo (ping) reply	id=0x0000, seq=0/0, ttl=64 (request in 11
14 2024-12-10 06:32:24.912480 127.0.0.1	127.0.0.1	ICMP	60 Echo (ping) reply	id=0x0000, seq=0/0, ttl=64 (request in 13
16 2024-12-10 06:32:24.913396 127.0.0.1	127.0.0.1	ICMP	60 Echo (ping) reply	id=0x0000, seq=0/0, ttl=64 (request in 15
10 2024 12 10 00:22:24 014407 127 0 0 1	127 0 0 1	TOMO	20 5-6- /-111	14 0.0000 0/0 ++1 c4 / 1- 1-

2. We can save the data Export as csv or simply use command.

### 3. Use commandline to extract

Using command extracts the data information from a network capture file. It filters for specific ICMP packets (type 0), picks out certain data fields, and processes them step by step. First, uses tshark to read the file and extract the relevant data. Then, awk selects and formats parts of the data. The processed data is converted back to binary using xxd.

```
tshark -r TheEchos.pcap -Y "icmp.type == 0" -T fields -e data | awk 'NF
{print substr($0, 1, 2)}' ORS='' | xxd -r -p
```

# 4. Grep the flag

Reading through file there is actually 'STOUTCTF'. We can grep it for the specific text that we want.

eprontstceitpoppttxxngktxtokbprbhoutacwtj7qoyna9k25Nc gcKqR3Qelfw6Ukyx6vRo9vpMwEKVXjkgW9VasHCQRvts7Qe3hQTz6 vHmEKWQgq4K5zgDiozrv01jgRTE8NppLeKgOACHmUTq3VQAATYvb2 d0iR0fKf0ileKt41W9tQi8ttLcFwucO8NUNbmpEoToD7OAkRESTol djwT0h3elAypZQk2IUNThn4TtWbE4VYgTZHhXJBVl4qMccGUpmClCM PqcwV2ZSTOUTCTF{fZtPEj720e1OKFrQPqouICBdgVAtD14N}zrIc ZEpu7Sa0wfmCMRvq1atIKYc5zCFg4puLM4gcqd0IPD6uR2sGd7Cqa 77LIgPnXVgxCoCSzgoYhAzKkpP9WaH5nKou5JBcAjA6TXeSzzkCF2 SNPKW2pGUUrBkpw0kJO5JGuwIbx09WRQQkv6wsAXvW4KzvTB322d3

```
$
tshark -r TheEchos.pcap -Y "icmp.type == 0" -T fields -e data | awk 'NF
{print substr($0, 1, 2)}' ORS='' | xxd -r -p | grep -o 'STOUTCTF{[^}]*}'
```

```
(osiris@ ALICE)-[-/Downloads/CTF/STOUTCTF/Forensic/Echoes]

- Stshark - TheEchos.pcap - Y "icap.type == 0" -T fields -e data | awk 'NF {print substr($0, 1, 2)}' ORS='' | xxd -r -p | grep -o 'STOUTCTF{[^}]*}'

**STOUTCTF***

**TOUTCTF***

**TOUTCTF**

*
```

Flag STOUTCTF{fZtPEj720e10KFrQPqouICBdgVAtD14N}