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Ans to the question no Case-01

```
(root@kali)-[~]
```

```
# cd /media/sf_Mid_Term
```

```
(root@kali)-[/media/sf_Mid_Term]
```

```
# exiftool img1.jpg
```

```
(root@kali)-[/media/sf_Mid_Term]
```

```
# exiftool img2.jpg
```

1. When was the photo taken

```
Exiftool img1.jpg
Date/Time Original      : 2024:09:25 21:16:00
Create Date             : 2024:09:25 21:16:00
Offset Time Original    : +06:00

Exiftool img2.jpg
Create Date             : 2024:09:25 22:18:34.529
Date/Time Original      : 2024:09:25 22:18:34.529+06:00
```

2. Who is the device manufacturer?

```
Exiftool img1.jpg
Make                    : OPPO
Camera Model Name       : OPPO A95
Orientation              : Horizontal (normal)

Exiftool img2.jpg
Make                    : OPPO
Camera Model Name       : OPPO A95
Orientation              : Horizontal (normal)
```

3. What encoding process is maintained?

```
Exiftool img1.jpg
Encoding Process        : Baseline DCT, Huffman coding

Exiftool img2.jpg
Encoding Process        : Baseline DCT, Huffman coding
```

4. What is the image height of this sample?

```
Exiftool img1.jpg
Image Height            : 4000

Exiftool img2.jpg
Image Height            : 4000
```

5. What time was the photo originally taken?

```
Exiftool img1.jpg
Date/Time Original      : 2024:09:25 22:18:34
```

b. For\_img2

Date/Time Original

: 2024:09:25 22:18:34.529+06:00

### Ans to the question no Case-02

1. Nmap: Nmap is a popular open-source tool used for network discovery and security auditing. It helps network administrators and security professionals scan and map networks, identify open ports, detect services, and discover devices on a network.

2. **ifconfig**

```
(root@kali)-[/media/sf_Mid_Term]
# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.68.174 netmask 255.255.255.0 broadcast 192.168.68.255
    inet6 fe80::80c6:1fd3:476d:6717 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:08:25:c8 txqueuelen 1000 (Ethernet)
    RX packets 20801 bytes 1338967 (1.2 MiB)
```

3. **nmap -sS 192.168.68.216**

```
(root@kali)-[~]
# nmap -sS 192.168.68.216
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-05 03:21 EDT
Nmap scan report for 192.168.68.216
Host is up (0.0051s latency).
Not shown: 991 closed tcp ports (reset)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
139/tcp   open  netbios-ssn
143/tcp   open  imap
443/tcp   open  https
445/tcp   open  microsoft-ds
5001/tcp  open  complex-link
8080/tcp  open  http-proxy
8081/tcp  open  blackice-icecap
MAC Address: 00:0C:29:2C:A7:B1 (VMware)

Nmap done: 1 IP address (1 host up) scanned in 0.54 seconds
```

4. **nmap 192.168.68.216 -p 80 -sV**

```
PORT      STATE SERVICE VERSION
80/tcp    open  http    Apache httpd 2.2.14 ((Ubuntu) mod_mono/2.4.3 PHP/5.3.2-1ubuntu4.30 with Suhosin-Patch proxy_html/3.0.1 mod_python/3.3.1 Python/2.6.5 mod_ssl/2.2.14 OpenSSL...)
MAC Address: 00:0C:29:2C:A7:B1 (VMware)
```

```

(root@kali)-[~]
# nmap 192.168.68.216 -p 80 -sV
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-05 03:24 EDT
Nmap scan report for 192.168.68.216
Host is up (0.0040s latency).

PORT      STATE SERVICE VERSION
80/tcp    open  http      Apache httpd 2.2.14 ((Ubuntu) mod_mono/2.4.3 PHP/5.3.2-1ubuntu4.30 with Suhosin-Patch proxy_html/3.0.1 mod_python/3.3.1 Python/2.6.5 mod_ssl/2.2.14 OpenSSL ...)
MAC Address: 00:0C:29:2C:A7:B1 (VMware)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 6.64 seconds

```

##### 5. **nmap 192.168.68.216 -p 80 -sV -O**

Device type: general purpose

Running: Linux 2.6.X

OS CPE: cpe:/o:linux:linux\_kernel:2.6

OS details: Linux 2.6.17 - 2.6.36

```

(root@kali)-[~]
# nmap 192.168.68.216 -p 80 -sV -O
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-05 03:29 EDT
Nmap scan report for 192.168.68.216
Host is up (0.017s latency).

PORT      STATE SERVICE VERSION
80/tcp    open  http      Apache httpd 2.2.14 ((Ubuntu) mod_mono/2.4.3 PHP/5.3.2-1ubuntu4.30 with Suhosin-Patch proxy_html/3.0.1 mod_python/3.3.1 Python/2.6.5 mod_ssl/2.2.14 OpenSSL ...)
MAC Address: 00:0C:29:2C:A7:B1 (VMware)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.17 - 2.6.36
Network Distance: 1 hop

```