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Answer to the question No 1

1. The image1 was taken at 2024:09:25
The image2 was taken at 2024:09:25
2. Device manufactures of image1 Unknown (OPPO)
Device manufacturer of imag2 Unknown (OPPO)
3. The encoding process of image1

Encoding Process : Baseline DCT, Huffman coding

The encoding process of image2

Encoding Process : Baseline DCT, Huffman coding

4. The height of the image1

Image Height : 4000

The height of the image2

Image Height : 4000

5. The image1 was originally taken at

Date/Time Original : 2024:09:25 21:16:00

The image2 was originally taken at

Date/Time Original : 2024:09:25 22:18:34

Answer to the question No 2

1. Nmap is a powerful network scanning tool that helps us explore and map out hosts, services, and vulnerabilities within a computer network. It's like a friendly detective for our network.
2. The command to find my machine's own ip addresss

```
(root@kali)-[~]
# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.10.163 netmask 255.255.255.0 broadcast 192.168.10.255
    inet6 fe80::a00:27ff:fe51:c248 prefixlen 64 scopeid 0<link>
    ether 08:00:27:51:c2:48 txqueuelen 1000 (Ethernet)
    RX packets 150006 bytes 22631290 (21.5 MiB)
    RX errors 0 dropped 120 overruns 0 frame 0
    TX packets 2175 bytes 207200 (202.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 4 bytes 240 (240.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4 bytes 240 (240.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

3. The command to find open ports on a target Ip

```
(root@kali)-[/home/kali]
# nmap -sS 192.168.68.216
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-05 03:30 EDT
Nmap scan report for 192.168.68.216
Host is up (0.0024s latency).
Not shown: 991 filtered tcp ports (no-response)
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

Nmap done: 1 IP address (1 host up) scanned in 4.99 seconds
```

4. Service version on 80 port

```
(root@kali)-[/home/kali]
# nmap 192.168.68.216 -p 80 -sV
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-05 03:32 EDT
Nmap scan report for 192.168.68.216
Host is up (0.00060s latency).
PORT      STATE SERVICE VERSION
80/tcp    open  http      Apache/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/...)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 6.33 seconds
```

5. The system is running on

```
(root@kali)-[/home/kali]
└─$ nmap 192.168.68.216 -p 80 -SV -O
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-05 03:32 EDT
Nmap scan report for 192.168.68.216
Host is up (0.00071s 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 ...)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: bridge|general purpose|switch
Running (JUST GUESSING): Oracle Virtualbox (96%), QEMU (91%), Bay Networks embedded (86%)
OS CPE: cpe:/o:oracle:virtualbox cpe:/a:qemu:qemu cpe:/h:baynetworks:baystack_450
Aggressive OS guesses: Oracle Virtualbox (96%), QEMU user mode network gateway (91%), Bay Networks BayStack 450 switch (software version 3.1.0.22) (86%)
No exact OS matches for host (test conditions non-ideal).

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 9.72 seconds
```