**DAY-3**

What is hacking?

Purpose of hacking?

Hacker has great knowledge about networks, technologies and different OS

What is ethical hacking?

It is also known as authorized penetration testing

Who is ethical hacker?

5 phases of hacking:

1. Information gathering/ footprinting/ reconnaissance

2. Scanning

3. Gaining access

4. Maintaining access

5. Clearing tracks

Phases followed by ethical hacker:

1. Information gathering/ footprinting/ reconnaissance

2. Scanning

3. Enumeration

4. Gaining access

5. Privilege escalation

6. Clearing tracks/ logs

The process or technique/ policies followed by ethical hackers:

**Vulnerability assessment**

**Penetration testing**

🡪who are called as security researchers/ penetration testers/ Network analyst/ information security analyst/ certified ethical hacker

Vulnerability assessment:

What is it?

Types:

1. Internal assessment

2. External assessment

3. Active assessment

4. Passive assessment (without interacting with the system)

5. Network assessment

6. Wireless network assessment

7. Host based assessment

8. Application based assessment

Penetration testing:

Types:

1. White box testing (full knowledge of the target)

2. Black box testing (No knowledge of the target)

3. Gray box testing (Partial knowledge of the target)

Types of hackers:

1. White hat hackers

2. Black hat hackers

3. Grey hat hackers

Around 36 types of hackers under these categories

**Marcus Hutchins** (white hat hacker)

**Maksim yakubets** (black hat hacker) **who leaked evil corp**

**Alexey** (grey hat hacker)

Information warfare:

1. Offensive information warfare

2. Defensive information warfare

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