

AVENUE OF ATTACK

- **Two reasons for attack:**

1. Specifically targeted by the attacker
2. Opportunistic target

STEPS IN ATTACK

- **Step 1:**

Information gathering: The attacker will gather as much information about organization as possible.

- **Step 2:**

Determination of target system: Then determine what target systems are available and active.

- **Step 3:**

Find vulnerability & suitable tools: To perform a port scan which gives indication of which services are running on target machine.

- **Step 4:**

Attack to the target system

SECURITY BASICS

- Confidentiality
- Integrity
- Availability



Cont....

- **Confidentiality:**

- When we talk about confidentiality of information, we are talking about protecting or securing the data and the information from disclosure to unauthorized parties (wrong Person).
- now a days Information has value, especially Bank account statements, personal information, credit card numbers, trade secrets, government documents.

Cont....

- **Integrity:**
- It refers to protecting information from being modified by unauthorized parties.
- Information only has value if it is correct. Information that has been tampered with could prove costly.
- For example, if you were sending an online money transfer for 100 rs, but the information was tampered in such a way that you actually sent 10,000 rs , it could be very costly for you.

Cont....

- **Availability:**
- Availability means that information is accessible to authorized users. It is basically an assurance that your system and data are accessible by authorized users whenever it's needed. Similar to confidentiality and integrity, availability also holds a great value.

Types of attack

- There are mainly two types:

- **Passive attacks:**

- A Passive attack attempts to learn or make use of information from the system but does not affect system resources.
- Passive attacks are in the nature of eavesdropping on, or monitoring of, transmission. The goal of opponent is to obtain information that is being transmitted.

Cont....

- **Active attacks:**

- An Active attack attempts to alter system resources or affect their operations.
- Active attacks involve some modification of the data stream or creation of a false stream.