

## **4.B. Perform System Hacking using the following tools**

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### **◆ (i) Winrtgen**

#### **Aim**

To generate password wordlists for password cracking.

#### **Tools Used**

- Winrtgen (Windows Rainbow Table Generator)

#### **Steps**

1. Open **Winrtgen**.
2. Select character set (alphabets, numbers, symbols).
3. Define password length.
4. Click **Generate**.
5. Save generated wordlist.

#### **Result**

Password wordlist is successfully generated.

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### **◆ (ii) PWDump**

#### **Aim**

To extract password hashes from Windows system.

#### **Tools Used**

- PWDump
- Windows OS

#### **Steps**

1. Run **PWDump** with administrator privileges.
2. Execute the tool on the target system.

3. Extract password hashes.
4. Save hashes to a file.

## **Result**

Windows password hashes are successfully extracted.

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## **◆ (iii) Ophcrack**

### **Aim**

To crack Windows passwords using rainbow tables.

### **Tools Used**

- Ophcrack
- Rainbow Tables

### **Steps**

1. Open **Ophcrack**.
2. Load password hash file.
3. Load appropriate rainbow tables.
4. Click **Crack**.
5. View recovered passwords.

## **Result**

Passwords are successfully cracked using Ophcrack.

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## **◆ (iv) FlexiSPY**

### **Aim**

To monitor mobile activities for security testing.

### **Tools Used**

- FlexiSPY

## **Steps**

1. Install **FlexiSPY** on test mobile device.
2. Configure monitoring options.
3. Access dashboard.
4. View activity logs (calls, messages).

## **Result**

Mobile activity monitoring is successfully performed.

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## **◆ (v) NTFS Stream Manipulation**

### **Aim**

To hide data using NTFS Alternate Data Streams (ADS).

### **Tools Used**

- Windows NTFS File System

## **Steps**

1. Open **Command Prompt**.
2. Create a text file.
3. Hide another file inside it using ADS.
4. Verify hidden data.

## **Result**

Data is successfully hidden using NTFS streams.

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## **◆ (vi) ADS Spy**

### **Aim**

To detect hidden NTFS alternate data streams.

### **Tools Used**

- ADS Spy Tool

### Steps

1. Open **ADS Spy**.
2. Scan NTFS drives.
3. Detect hidden streams.
4. View ADS details.

### Result

Hidden NTFS streams are detected.

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## ◆ (vii) Snow

### Aim

To conceal data using whitespace steganography.

### Tools Used

- SNOW Tool

### Steps

1. Open SNOW application.
2. Select cover text.
3. Enter secret message.
4. Encode the message.
5. Save the output file.

### Result

Data is successfully hidden using SNOW.

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## ◆ (viii) QuickStego

### Aim

To hide information inside image files.

## **Tools Used**

- QuickStego

## **Steps**

1. Open **QuickStego**.
2. Select image file.
3. Enter secret message.
4. Click **Hide Data**.
5. Save stego image.

## **Result**

Message is successfully hidden inside image.

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## **◆ (ix) Clearing Audit Policies**

### **Aim**

To remove audit trail records from the system.

## **Tools Used**

- Windows Security Policy

## **Steps**

1. Open **Local Security Policy**.
2. Navigate to **Audit Policy**.
3. Disable auditing options.
4. Apply changes.

## **Result**

Audit policies are successfully cleared.

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## **◆ (x) Clearing Logs**

### **Aim**

To delete system event logs.

## Tools Used

- Event Viewer

## Steps

1. Open **Event Viewer**.
2. Select **Security / System Logs**.
3. Click **Clear Log**.
4. Confirm deletion.

## Result

System logs are successfully cleared.

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## ⚠ Precautions / Counter Measures

- Enable strong access control
  - Monitor logs regularly
  - Use intrusion detection systems
  - Restrict administrator privileges
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## ✓ Overall Result

Thus, mobile network scanning and system hacking techniques were studied and performed using various ethical hacking tools.

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## Viva Gold Line

“System hacking techniques help in understanding how attackers hide activities and how defenders can detect them.”