

## Day 94

### **Topic: Dark Web & Anonymity**

**Objective:** To understand the Onion Routing protocol and the Dark Web ecosystem.

#### **Theoretical Concepts:**

We explained the Surface Web, Deep Web, and Dark Web. We studied how TOR (The Onion Router) works by bouncing traffic through three nodes (Guard, Middle, Exit) to anonymize the user.

#### **Practical Work:**

We installed the **Tor Browser** and accessed .onion sites (hidden services). We used **Proxychains** in Kali Linux to route our terminal traffic through Tor, allowing us to run Nmap scans anonymously (though slow). We discussed the illicit markets and the role of cryptocurrency.

**Tools Used:** Tor Browser, Proxychains.

**Outcome:** Understanding online anonymity tools and the structure of the dark web.