### **HONEY POTS**

A honeypot is a security mechanism designed to mimic real systems, applications, or networks with the goal of attracting and detecting malicious activity. It acts as a decoy, luring attackers into an environment that simulates legitimate systems, services, and data. The primary purpose of honeypots is to gather information about attackers, their tactics, techniques, and procedures (TTPs), and to enhance overall cybersecurity by improving threat intelligence.

# **Types of Honeypots:**

#### **➤** Low-Interaction Honeypots:

Simulate the presence of vulnerabilities to attract attackers.

Less resource-intensive and easier to deploy.

### ➤ Medium-Interaction Honeypots:

Emulate a broader range of services and protocols, providing a more realistic environment for attackers.

Balance between realism and resource efficiency.

Suitable for capturing more sophisticated attack behaviors.

#### **➤** High-Interaction Honeypots:

Fully replicate real systems, including the operating system, services, and applications.

Provide a highly realistic environment for attackers to interact with.

Most resource-intensive but offers the most accurate insights into attacker behavior.

# **Honeypot Tools:**

#### **➤** Honeyd:

**Type:** Low-Interaction Honeypot

**Description:** Allows emulation of multiple operating systems and services.

### **➤** Dionaea:

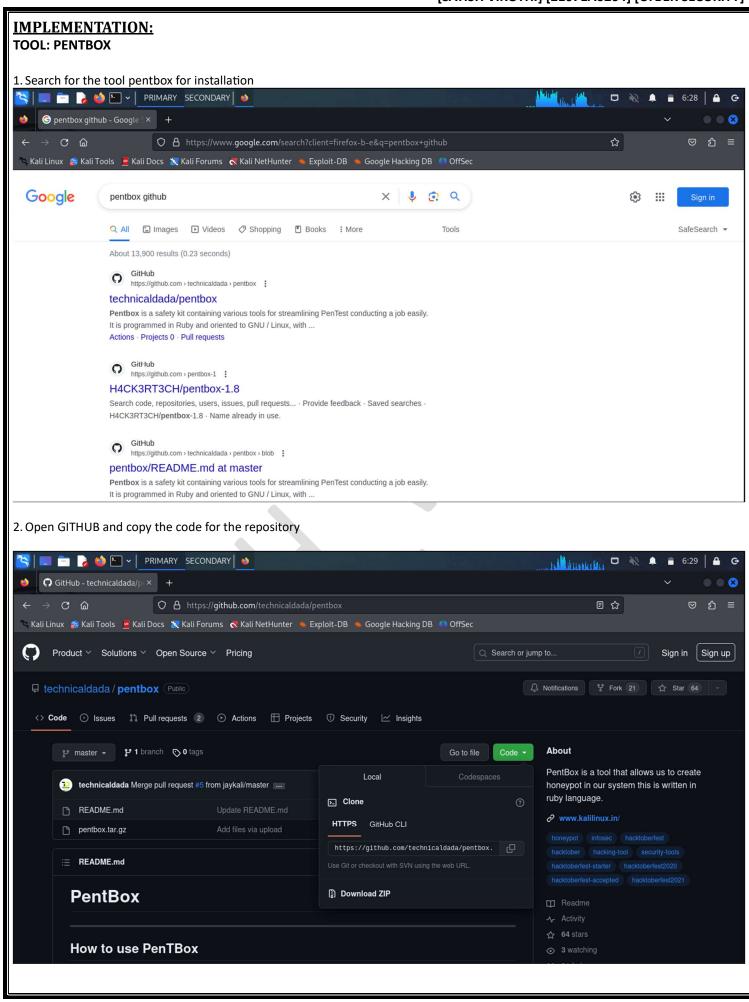
**Type:** Medium-Interaction Honeypot

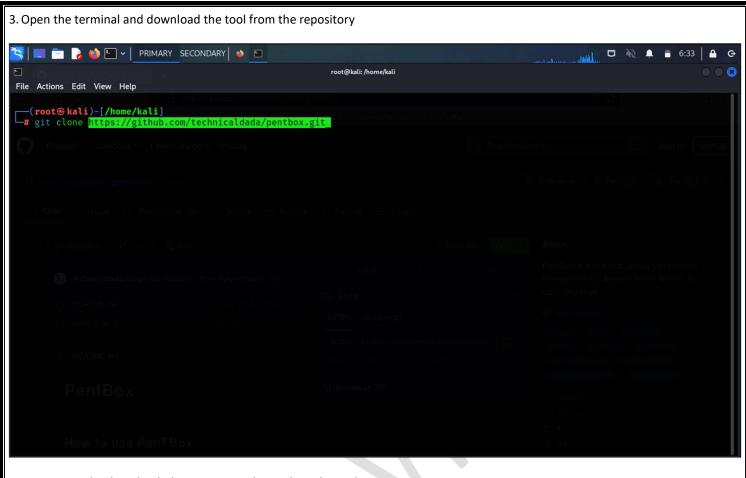
Description: Captures and analyzes attacks targeting various services like SMB, FTP, and HTTP.

## ➤ Modern Honey Network (MHN):

**Type:** High-Interaction Honeypot Framework

Description: Facilitates the deployment and management of high-interaction honeypots, supporting various honeypot technologies.





4. Navigate to the downloaded repository and unarchive the tool.

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 root@kali: /home/kali/pentbox
 File Actions Edit View Help
      -(root®kali)-[/home/kali]
# git clone https://github.com/technicaldada/pentbox.git Cloning into 'pentbox' ...
Cloning into 'pentbox'...
remote: Enumerating objects: 25, done.
remote: Counting objects: 100% (8/8), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 25 (delta 1), reused 0 (delta 0), pack-reused 17
Receiving objects: 100% (25/25), 2.11 MiB | 1.67 MiB/s, done.
Resolving deltas: 100% (3/3), done.
       -(root⊛kali)-[/home/kali]
  L# ls
Desktop Documents Downloads Music pentbox Pictures Public something.exe Templates Videos
       -(root⊛kali)-[/home/kali]
  # cd pentbox
     -(root⊗kali)-[/home/kali/pentbox]
 pentbox.tar.gz README.md
      -(root⊛kali)-[/home/kali/pentbox]
(root® kali)-[/home/kali/pentbox]

# tar -zxvf pentbox.tar.gz
pentbox-1.8/lib/racket/racket/l2/.svn/text-base/llc.rb.svn-base
pentbox-1.8/lib/racket/racket/l2/.svn/text-base/vlan.rb.svn-base
pentbox-1.8/lib/racket/racket/l2/.svn/text-base/snap.rb.svn-base
pentbox-1.8/lib/racket/racket/l2/.svn/text-base/vlp.rb.svn-base
pentbox-1.8/lib/racket/racket/l2/.svn/text-base/misc.rb.svn-base
pentbox-1.8/lib/racket/racket/l2/.svn/text-base/eightotwodotthree.rb.svn-base
pentbox-1.8/lib/racket/racket/l2/.svn/text-base/ethernet.rb.svn-base
pentbox-1.8/lib/racket/racket/l2/.svn/prop-base/llc.rb.svn-base
pentbox-1.8/lib/racket/racket/l2/.svn/prop-base/vlan.rb.svn-base
```

