

## PivotSuite : Hack The Hidden Network – A Network Pivoting Toolkit

**DISCLAIMER:** This Information / Toolkit is for educational purposes only. Author is not responsible for its use

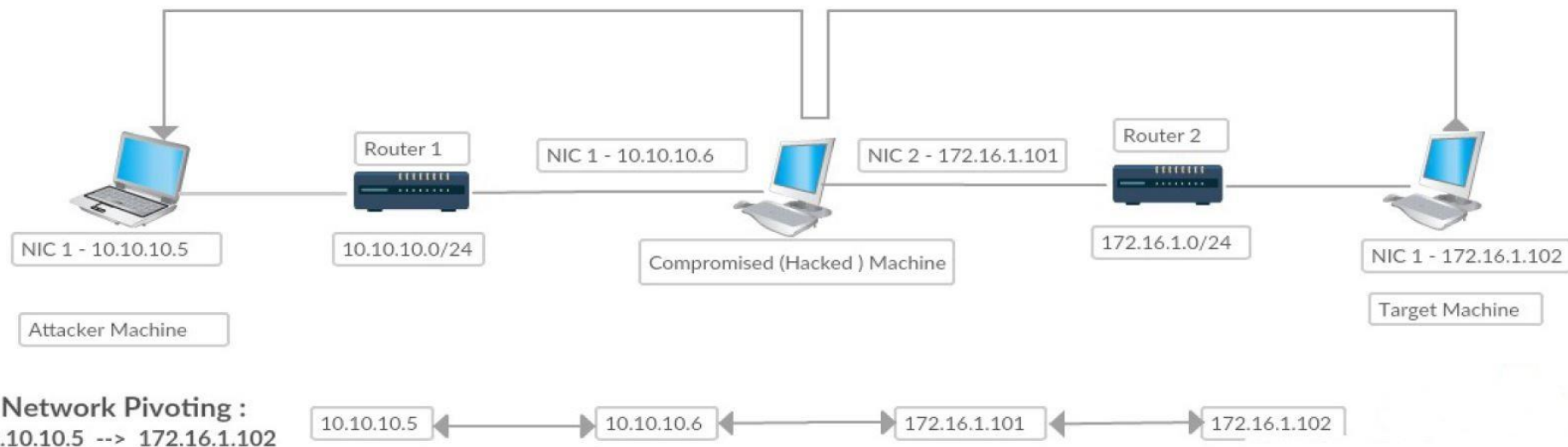
- Agenda

- ❖ What is Network Pivoting ?
- ❖ How to Perform Network Pivoting ?
- ❖ Problem Statement : Real Time Network Pivoting Scenarios
- ❖ Solutions : Network Pivoting using PivotSuite
- ❖ Key Features and Advantages of PivotSuite

## 1. What is Network Pivoting ?

- Pivoting is a technique that route the traffic from a hacked computer toward other networks that are not accessible by a hacker machine
- Pivoting is a technique that use a compromised system to move around inside a network.

## 1. What is Network Pivoting ?



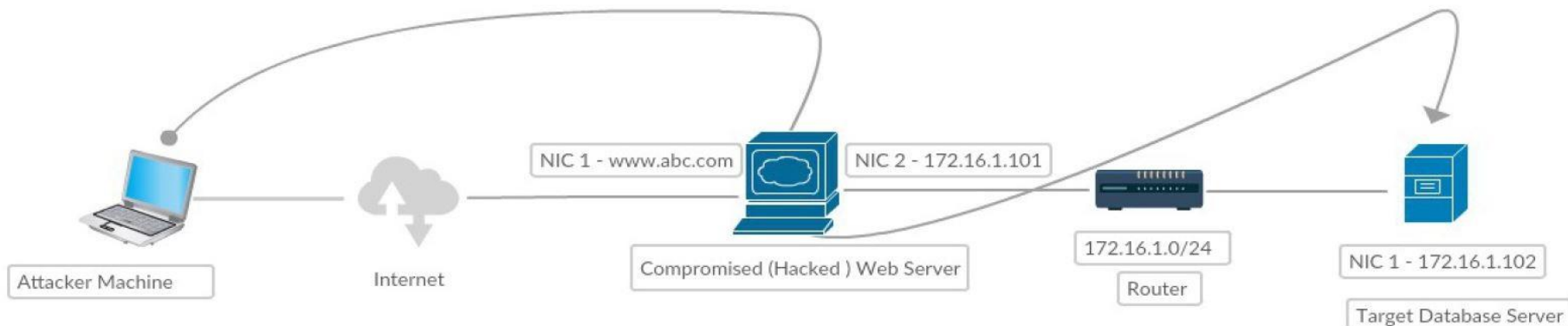
## 2. How to Perform Network Pivoting ?

- Tunnelling
- Port Forwarding
- TCP Relay
- Proxy Server
- Dynamic Port Forwarding (Socks Proxy)

## 3. Real Time Network Pivoting Scenarios

- ❖ **Forward Connection** - If the compromised host is directly accessible (Forward Connection) from Our pen-test (Hacker Machine). E.g. Webserver
- ❖ **Reverse Connection** - If the compromised host is behind a Firewall / NAT and isn't directly accessible from our pen-test machine. E.g. Enterprise Internal System

## 3.1 Forward Connection -

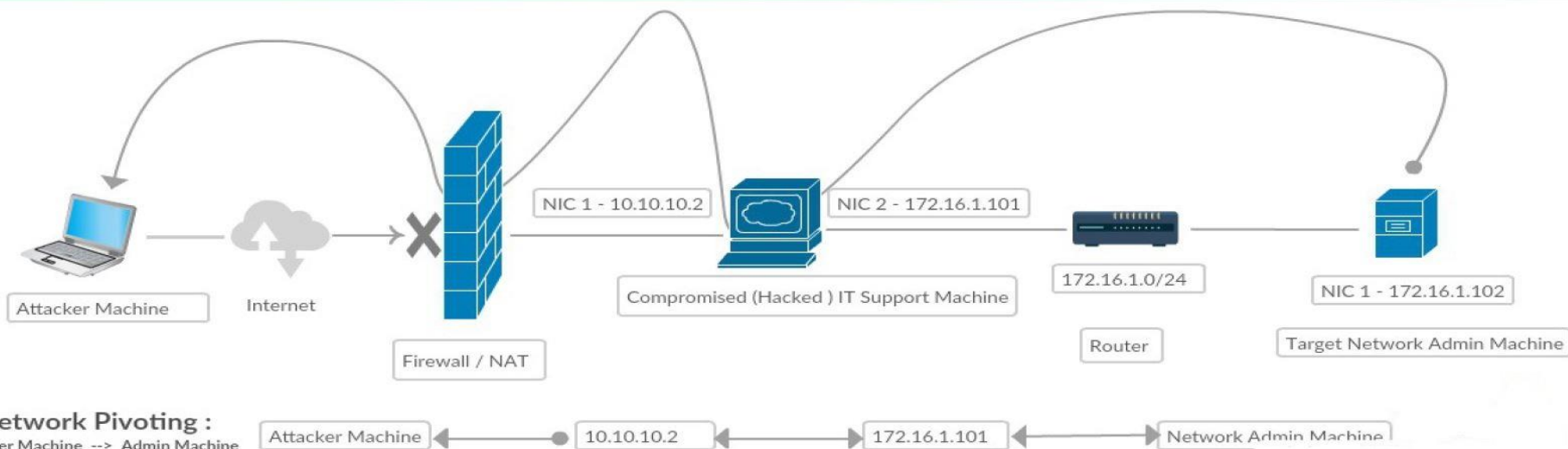


### Network Pivoting :

Attacker Machine --> Database Server



## 3.2 Reverse Connection -





## 4. Network Pivoting using PivotSuite

### **Introduction About PivotSuite:**

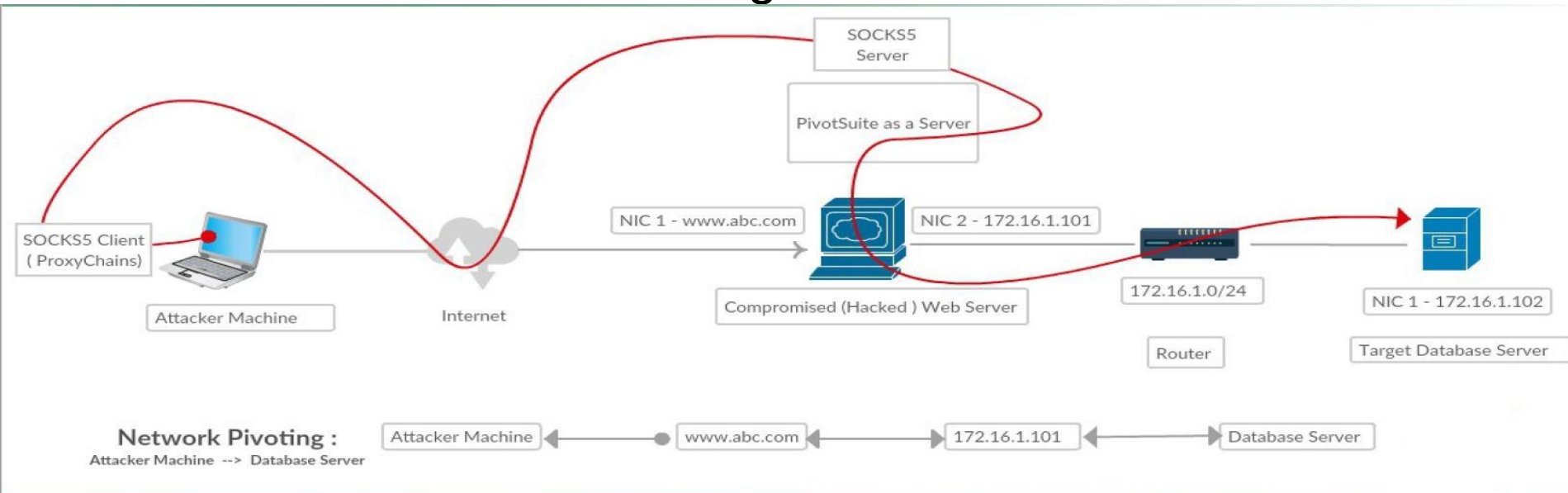
PivotSuite is a portable, platform independent and powerful network pivoting toolkit, Which helps Red Teamers / Penetration Testers to use a compromised system to move around inside a network. It is a Standalone Utility, Which can use as a Server or as a Client.

## 4.1 Forward Connection using PivotSuite

### PivotSuite as a Server :

If the compromised host is directly accessible (Forward Connection) from Our pen-test machine, Then we can run **PivotSuite as a server on compromised machine** and access the different subnet hosts from our pen-test machine, Which was only accessible from compromised machine.

## 4.1 Forward Connection using PivotSuite



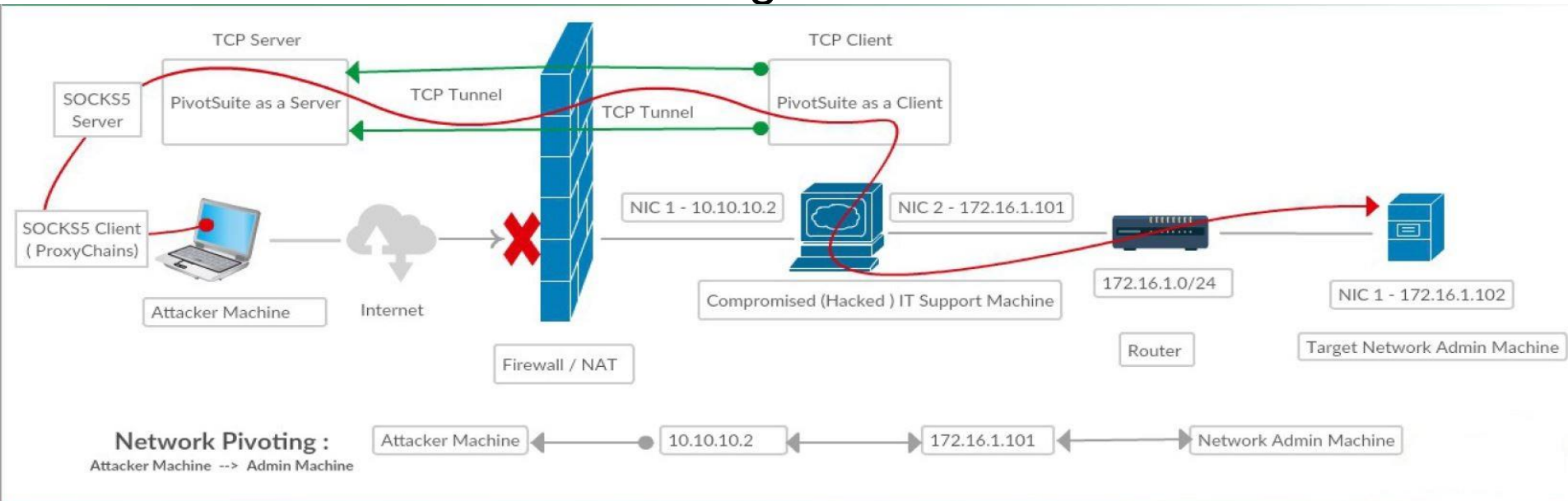
## 4.2 Reverse Connection using PivotSuite

### PivotSuite as Client & Server :

If the compromised host is behind a Firewall / NAT and isn't directly accessible from our pen-test machine,

Then we can run **PivotSuite as a server on pen-test machine** and **PivotSuite as a client on compromised machine** for creating a reverse tunnel (Reverse Connection). Using this we can reach different subnet hosts from our pen-test machine, which was only accessible from compromised machine.

## 4.2 Reverse Connection using PivotSuite



## 5.1 Key Features

- Supported Forward & Reverse TCP Tunnelling
- Supported Forward & Reverse socks5 Proxy Server
- UDP over TCP and TCP over TCP Protocol Supported
- Corporate Proxy Authentication (NTLM) Supported
- Inbuilt Network Enumeration Functionality, E.g.. Host Discovery, Port Scanning, OS Command Execution
- PivotSuite allows to get access to different Compromised host and their network, simultaneously (Act as C&C Server)
- Single Pivoting, Double Pivoting and Multi-level pivoting can perform with help of PivotSuite.
- PivotSuite also works as SSH Dynamic Port Forwarding but in the Reverse Direction.

## 5.2 Advantage Over Other tools:

- Doesn't required admin/root access on Compromised host
- PivotSuite also works when Compromised host is behind a Firewall / NAT, When Only Reverse Connection is allowed.
- No dependency other than python standard libraries.
- No Installation Required
- UDP Port is accessible over TCP

Thank You  
Feedback & Suggestion  
Email:  
[admin@myhacker.online](mailto:admin@myhacker.online)