

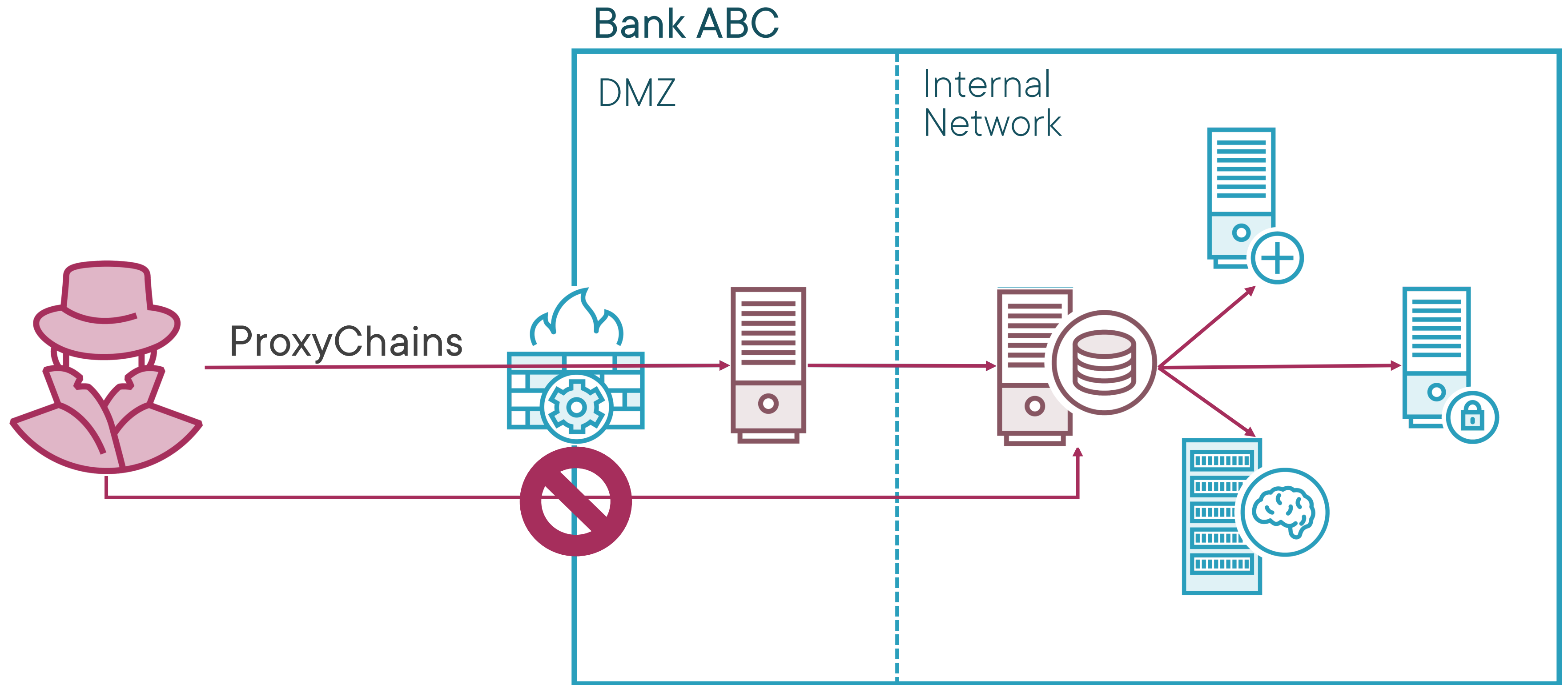
Defense Evasion with ProxyChains



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Bypassing Network Perimeter Defense



ProxyChains



ProxyChains

Creator: N3E7CR34TUR3

Main Contributors: rofl0r, Adam Hamsik and Jianing Yang

A tool that forces any TCP connection made by any given application to follow through proxy like TOR or any other SOCKS4, SOCKS5 or HTTP(S) proxy.



ProxyChains

Open source software

<https://github.com/haad/proxychains>

One of the most well known tools for traffic redirection

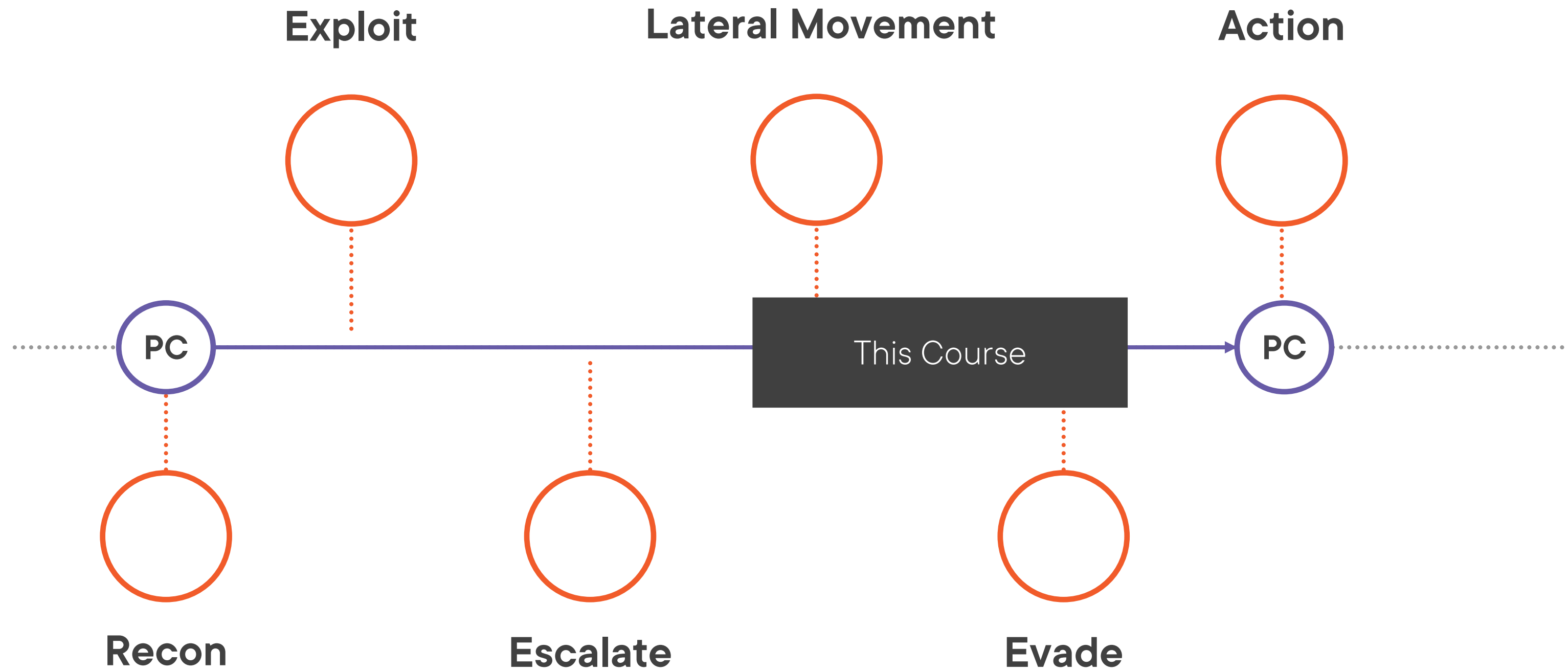
Allows to redirect TCP packets from any tool (e.g. NMap, theHarvester, SSH, etc.)

Provide anonymous traffic

Bypass defense mechanisms



Kill Chain



MITRE ATT&CK

Tactics

Reconnaissance
Resource Development
Initial Access
Execution
Persistence
Privilege Escalation
Defense Evasion
Credential Access
Discovery
Lateral Movement
Collection
Command & Control
Exfiltration
Impact



MITRE ATT&CK

Tactics

Reconnaissance

Resource Development

Initial Access

Execution

Persistence

Privilege Escalation

Defense Evasion

T1599:

Network Boundary Bridging

Credential Access

Discovery

Lateral Movement

Collection

Command & Control

Exfiltration

Impact

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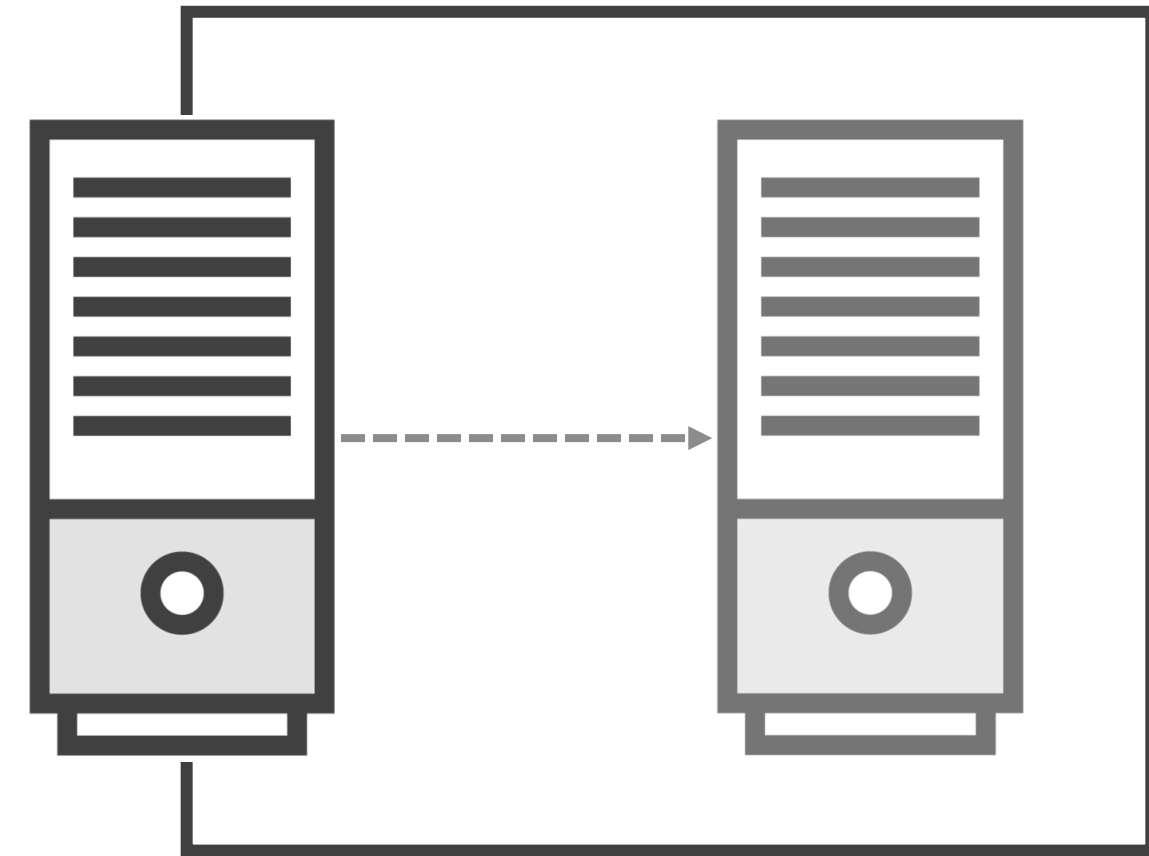


Prerequisites



Attacker Machine

Kali Linux or any other Linux distribution

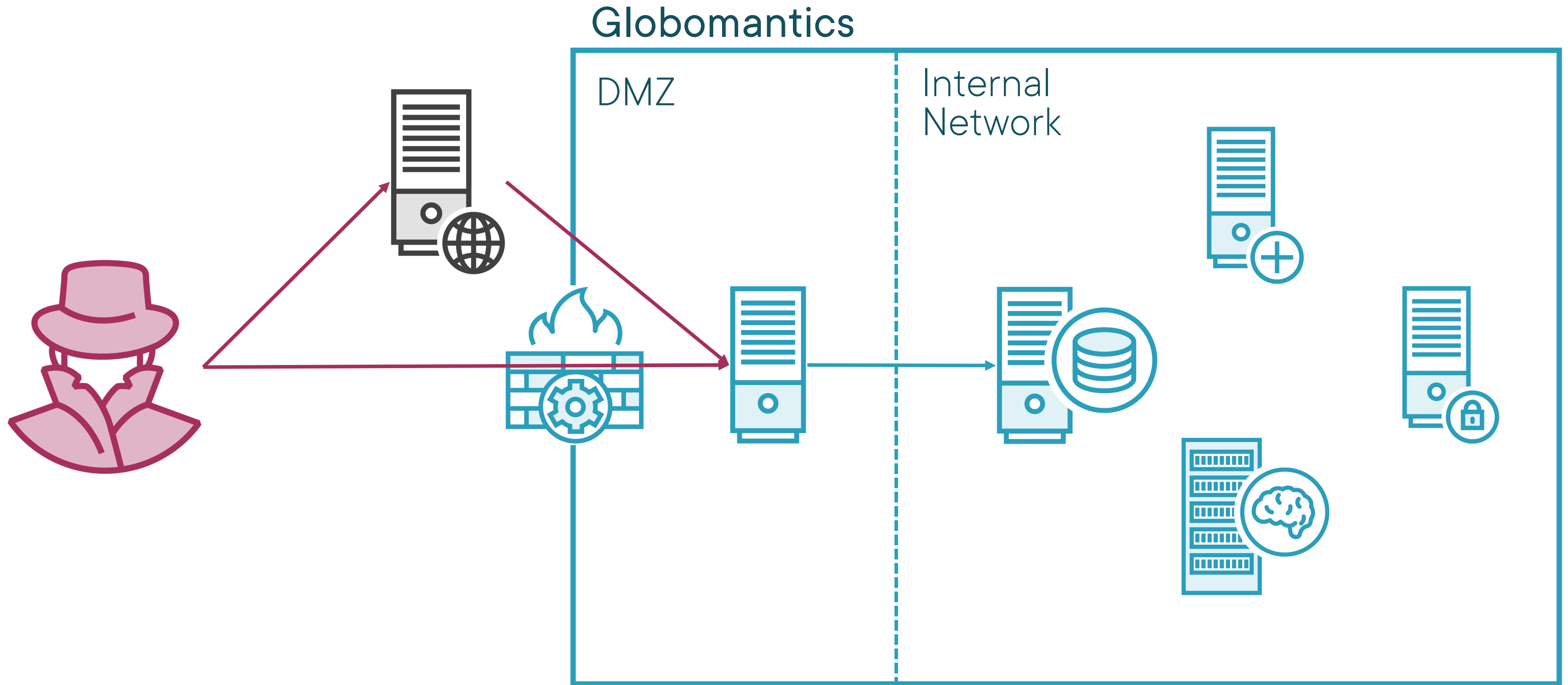


Victim Environment

One DMZ server with access to an internal server



Demo Part 1: Obfuscating Incoming Traffic

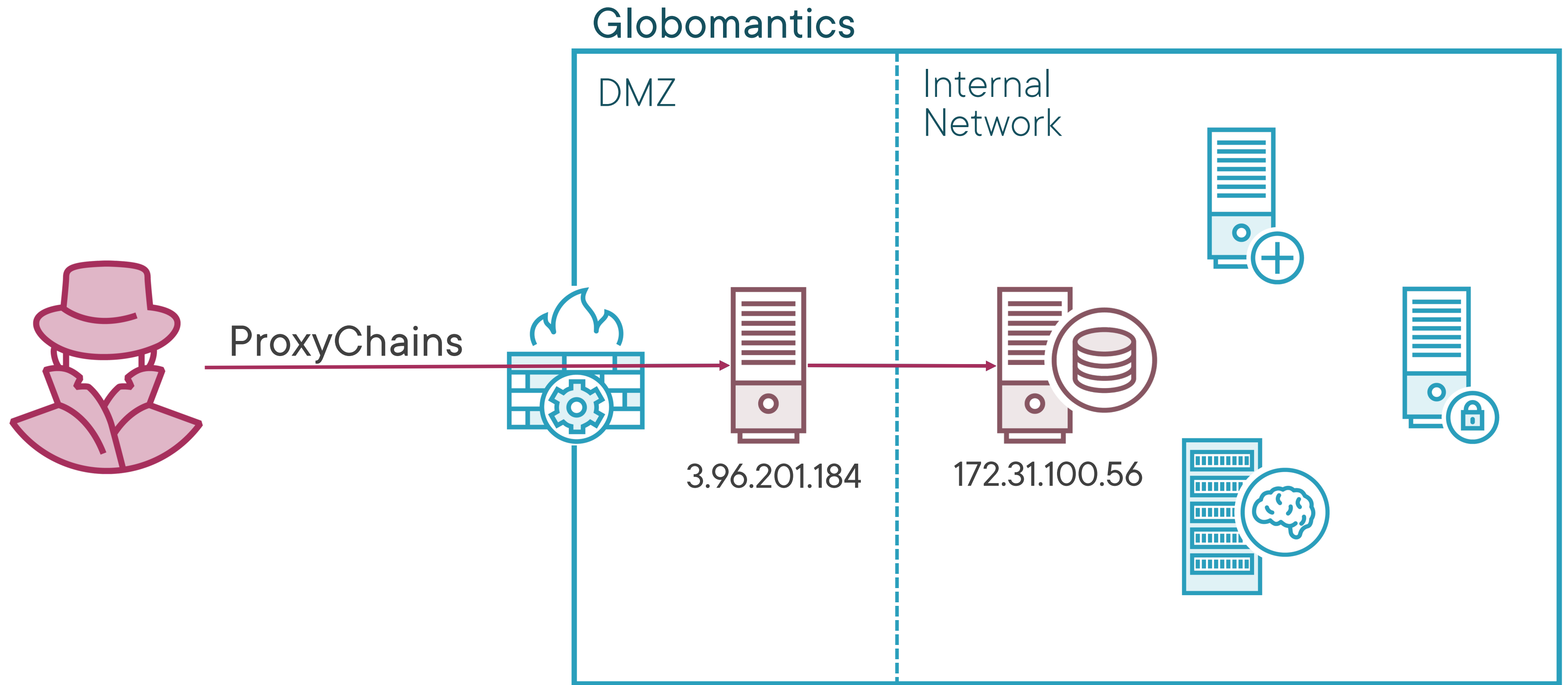


Demo Place Holder

1. Installation Tips and Tricks
2. First use instructions and common usage syntax
3. Use of main features on live targets or in live environment



Demo Part 2: Bypassing Network Perimeter Defense



Demo 2 Place Holder

1. Installation Tips and Tricks
2. First use instructions and common usage syntax
3. Use of main features on live targets or in live environment



More Information

Official Documentation

Several other capabilities

<https://github.com/haad/proxychains>

Other Features

Multi-proxy hopping

DNS resolution via proxy

Other Defense Evasion Courses

“Defense Evasion with Invoke-Obfuscation”

Remediation

Deploy network-behavior analysis tools

Proactive threat hunting



Thank you!



Ricardo Reimao
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