



# Red Teaming a Bank: Simulating APT Attacks in a Realistic Cyber Range



## ABOUT CYBERWARFARE LABS :

CW Labs is a Global Infosec company specializing in cybersecurity practical learning situated across UK, US & India. The company has 2 primary divisions :

1. Niche Cyber Range Labs
2. Continuous Learning : Infinity Platform



### INFINITE LEARNING EXPERIENCE





# About Speaker :

## Yash Bharadwaj

Director and Chief Technology Officer at CyberWarFare Labs

**Over 7.5 years of experience** in offensive security and cyberwarfare research. He specializes in mimicking **real-world adversary tradecraft, red/blue team lab design, and advanced phishing techniques.**

He has trained defense and academic institutions **across India and abroad**, and has presented his work at top cybersecurity conferences including **BlackHat USA, DEFCON, and Microsoft BlueHat.**





# Red Team Objectives

- New APT Techniques Simulation
- Testing critical access to the infrastructure
- Security Defenses Testing

FOR

**Enhanced detection and monitoring**





# What do they follow?

- Set an Objective and Scope of Red Team Assessment
- Researched & vetted Offensive Security Tooling
- OPSEC safe infrastructure for assessments
- Roadmap and success criteria



# Bank Infrastructure



Identity Providers



Endpoint Security Tools



Dev Machine 01



Dev Machine 02



File Server



Application Server



Database Server



HR Box



PAM Solution

Bank Resources



IT Admin Box



Exchange Server



Bastion Hosts



Secrets Manager



Arkime



SOC Tool Suite

Bank Critical Resources



# Scope and Techniques

Scope	Technique
External Assessment	Recon, Enumeration and Phishing
Internal Assessment	Authenticated Enumeration, Privilege Escalation and Dominance
Full-Fledged	Recon to Privileged Access





# Objectives

Objectives	Value
High Value Target Credentials Access	Privileged Access to the internal environment
Infrastructure Access	Pivoting and further expansion
Security Controls Evasion	Execute payloads & bypass proxies in boxes
C-Level Executive Box Access	Access to sensitive information





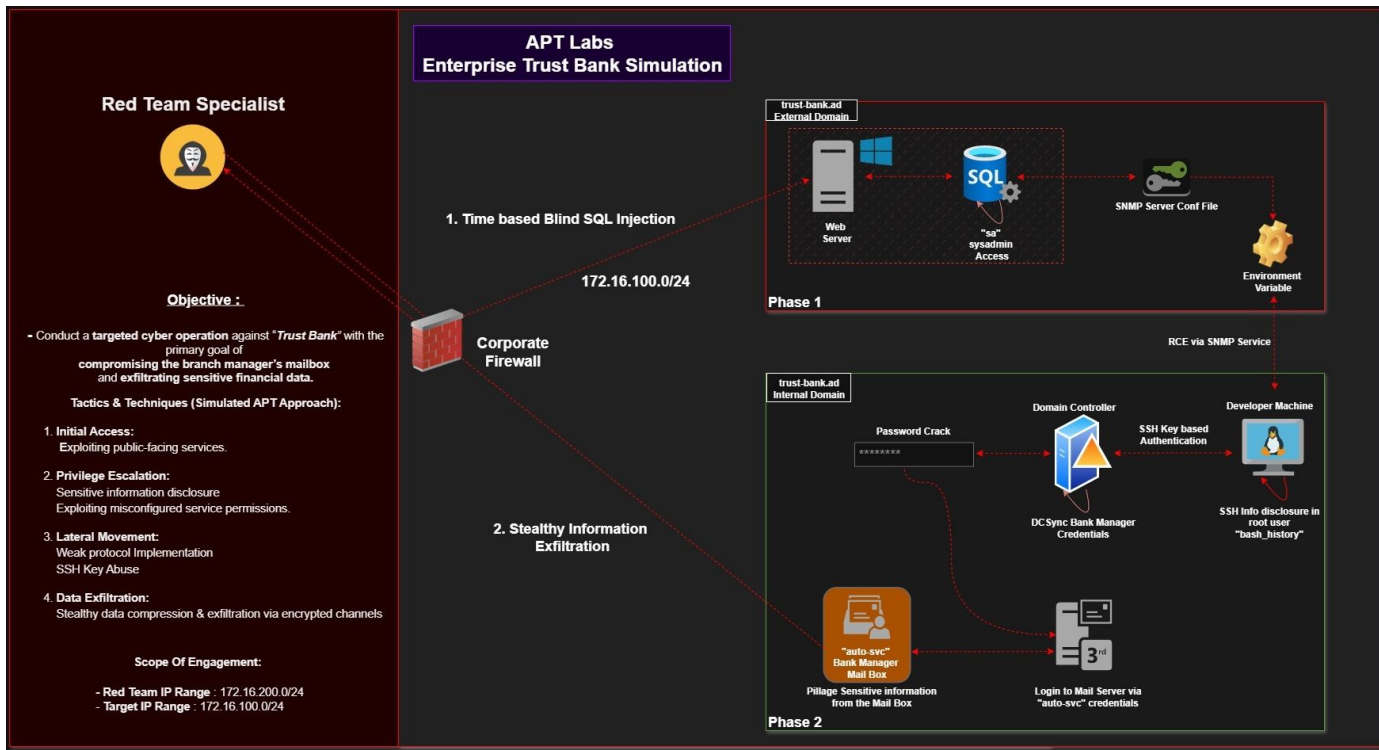


# Introducing Scenario Based APT Labs

- Realistic Scenarios and top tech stack coverage
- Execute Red Team Simulation from Recon to Data Exfil
- Learn by hacking into scenario based APT Labs
- From Identity Providers, Containerized apps, AD, Cloud etc in a realistic scenario.



# Challenge : Hack into Trust Bank



## Available at Infinity Platform

# Thank You

For Professional Red Team / Blue Team / Purple Team / Cloud Cyber Range labs / Trainings

Please Contact :

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To know more about our offerings, please visit: **<https://cyberwarfare.live>**