REDTEAMSIMMER

The UI You've Always Wanted for Atomic Red Team

A Web Based Adversary Emulation Platform and Atomic Red Team Test Orchestration.

ABHIJITH “ABX” B R

Founder of Adversary Village
Director at BreachSimRange

DEFCON SINGAPORE
Demo Labs | 28-30 April 2026

https://breachsimrange.io

$whoami

ABHIJITH “ABX” B R

- Hacker, offensive cyber security specialist, security researcher, red team consultant, trainer and public speaker with over a decade of experience.
- Founder and Director at **BreachSimRange.io**
- Founder of **Adversary Village** at DEF CON, Las Vegas.
- Organizer of Bsides Kerala and AdversaryCon.
- Formerly worked with Envestnet, Inc., Nissan Motor Corporation, EY.
- Spoken at DEF CON, RSA Conference, BSides Las Vegas/San Francisco/Tampa/Delhi, Hack Space Con, Nullcon, c0c0n and many.
- https://tacticaladversary.io/blog research blog

ABHIJITH “ABX” B R

Connect with me!

Abhijith B R

Building BreachSimRange | Founder of Adversary Village | Offensive Cybe...

https://breachsimrange.io

THE ~~A~~ TEAM

RED

https://breachsimrange.io

*image credits goes to respective owners

~~Guardians of the Galaxy!~~

Security operations team!

https://breachsimrange.io

What is Adversary Emulation?

- Emulate the adversary by using the same documented TTPs
- Must understand the known adversaries and threat groups
- Plan adversary emulation based on cyber threat intelligence
- Must know how to effectively emulate TTPs [Technical capability]

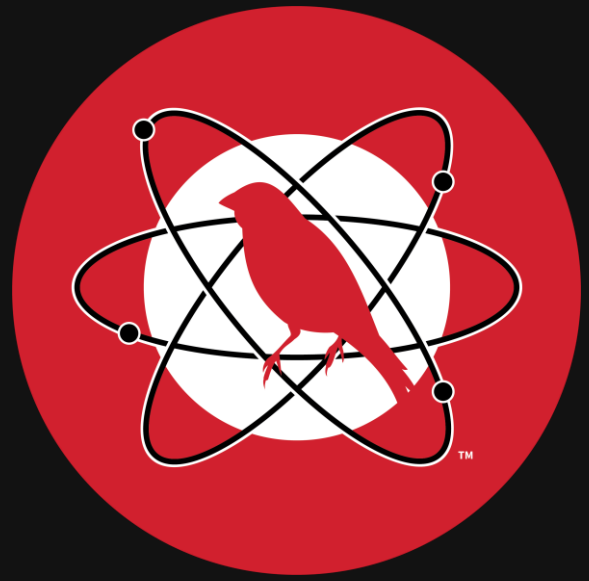
Atomic Red Team

Atomic Red Team™ is a library of tests mapped to the MITRE ATT&CK® framework.

Security teams can use Atomic Red Team to quickly, portably, and reproducibly test their environments.

URLs:

- https://github.com/redcanaryco/atomic-red-team
- https://atomicredteam.io/



RedTeamSimmer - Core Features

- MITRE ATT&CK navigation by tactic, technique, and sub-technique
- Automatic prerequisite handling. parses YAML, checks, installs, re-verifies, then runs
- Live streaming output with stdout, stderr, and agent messages, toggleable
- rule correlation with Sigma, Splunk, Elastic, all local and offline
- Dashboard with ATT&CK heatmap, tactic coverage charts, and operations history

Pre-built Emulation Plans

- APT28 (Fancy Bear)
- APT29 (Cozy Bear)
- APT3 (Gothic Panda)
- APT41 (Wicked Panda)
- FIN7 (Carbanak)
- Lazarus Group
- Wizard Spider

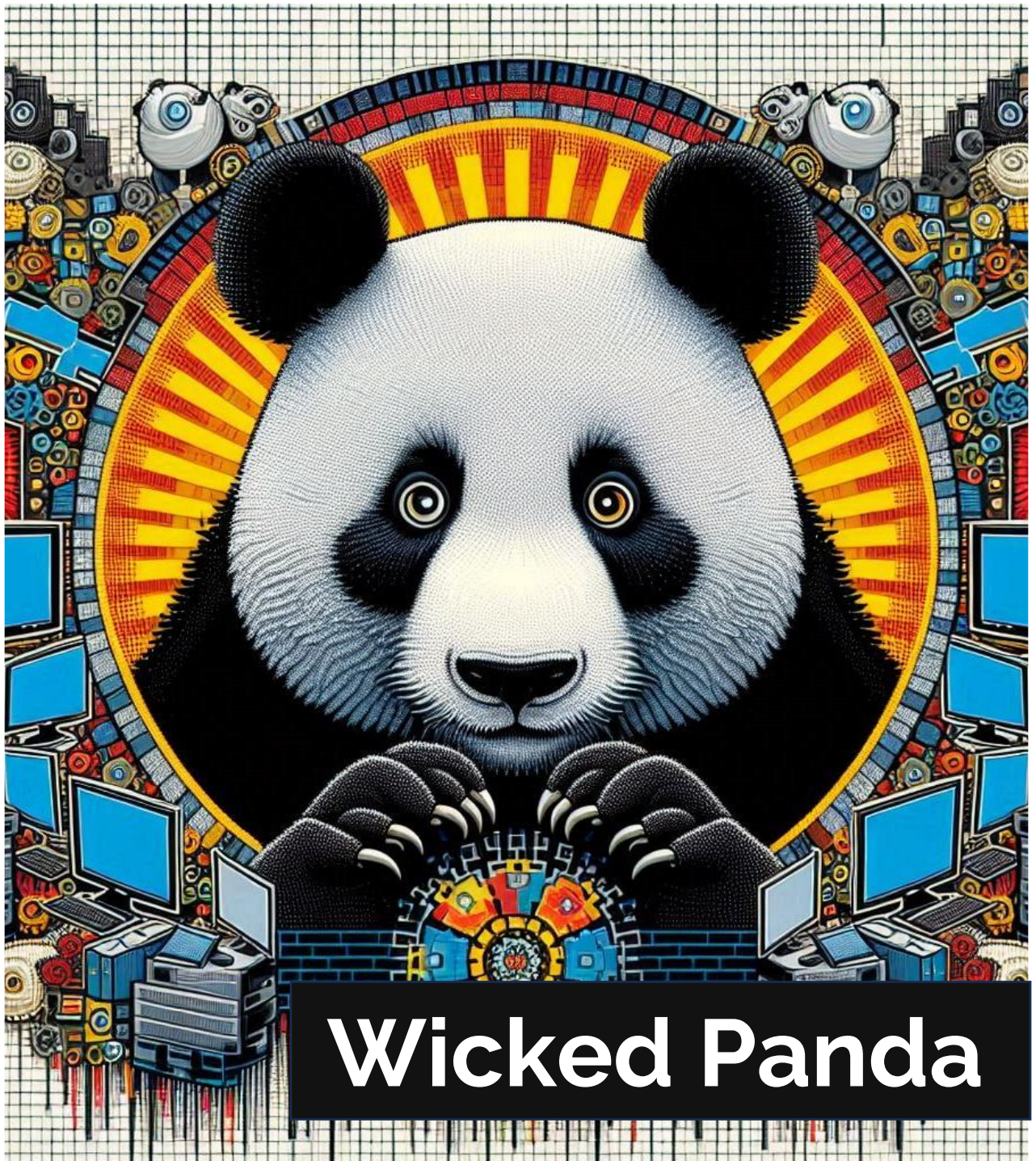
Emulation Plans

https://bre

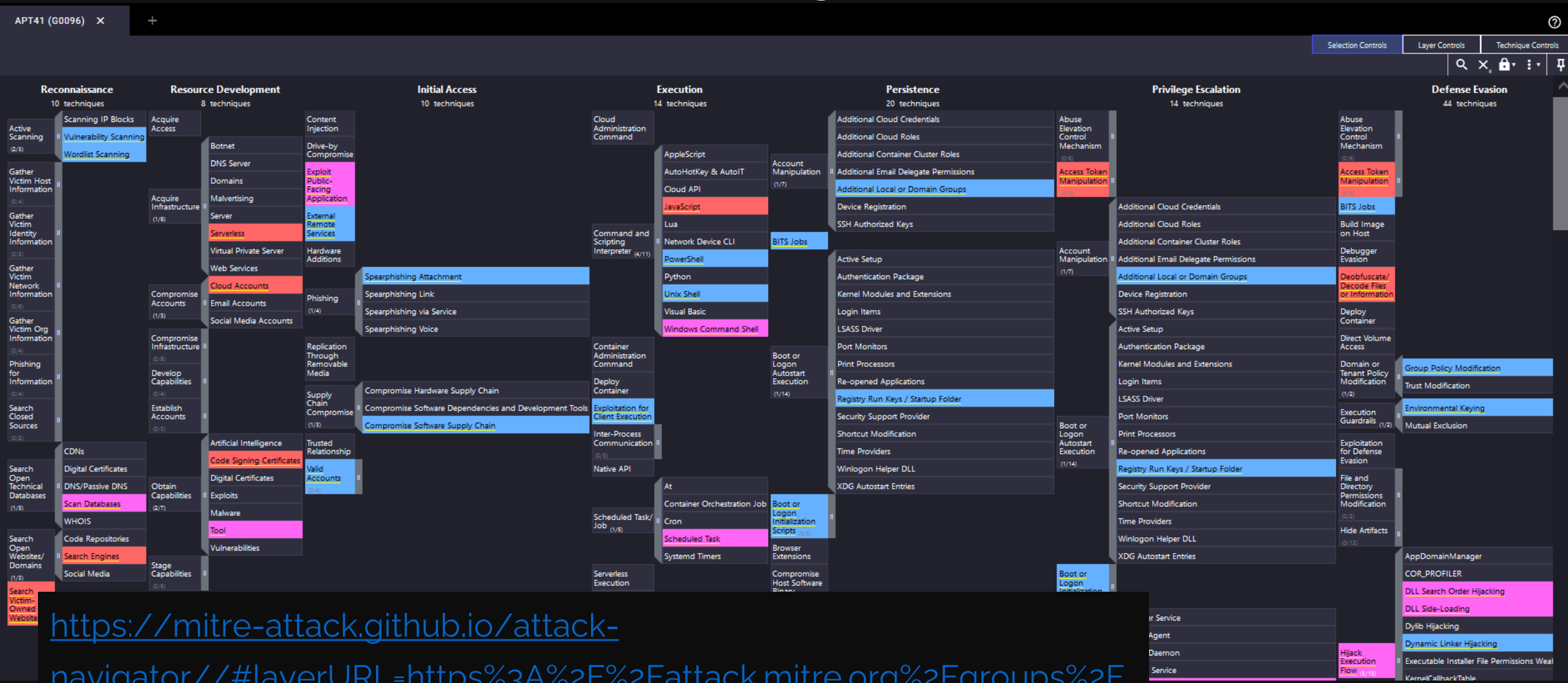
[Wicked Panda | APT41 | BARIUM]

- A state sponsored threat actor whose goals include cyber espionage and financial gain, active since at least 2007
- Also known as BARIUM, Winnti, WICKED SPIDER, WICKED PANDA, Blackfly, Suckfly
- APT41 compromised and gained various levels of access to at least 14 organizations worldwide.
- The group's targets include government and private organizations based in the **India, US, Taiwan, Thailand, China, Hong Kong, Mongolia, Indonesia, Vietnam, Bangladesh, Ireland, Brunei,** and **UK.**

https://breachsimrange.io



APT 41 - MITRE ATT&CK Navigator



https://mitre-attack.github.io/attack-navigator//#layerURL=https%3A%2F%2Fattack.mitre.org%2Fgroups%2FG0096%2FG0096-enterprise-layer.json

Try RedTeamSimmer Today

Try RedTeamSimmer today and support the project.

We welcome contributions of all kinds - code, documentation, bug reports, feature ideas, or testing.

GitHub Repository:

- https://github.com/BreachSimRange/RedTeamSimmer

REDTEAMSIMMER

A COOL UI FOR ATOMIC RED TEAM!

ADVERSARY EMULATION PLANS

REFRESH

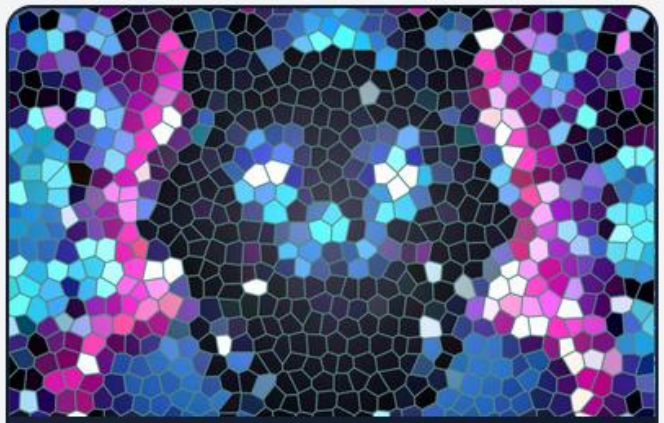
NOTE: EMULATION PLANS ARE LOADED FROM JSON FILES IN THE `emulation_plans/` FOLDER. ADD VALIDATED APT PLAN FILES TO THIS FOLDER AND REFRESH TO SEE THEM HERE.

G0007 | UNKNOWN

APT28 (FANCY BEAR)

APT28, FANCY BEAR, FOREST BLIZZARD

68 TESTS | 0 TECHNIQUES | 0% COVERAGE



G0022 | CHINA MINISTRY OF STATE SECURITY (MSS)

APT3 (GOTHIC PANDA)

APT3, GOTHIC PANDA, PIRPI

41 TESTS | 44 TECHNIQUES | 93% COVERAGE

G0096 | CHINA MINISTRY OF STATE SECURITY (MSS)

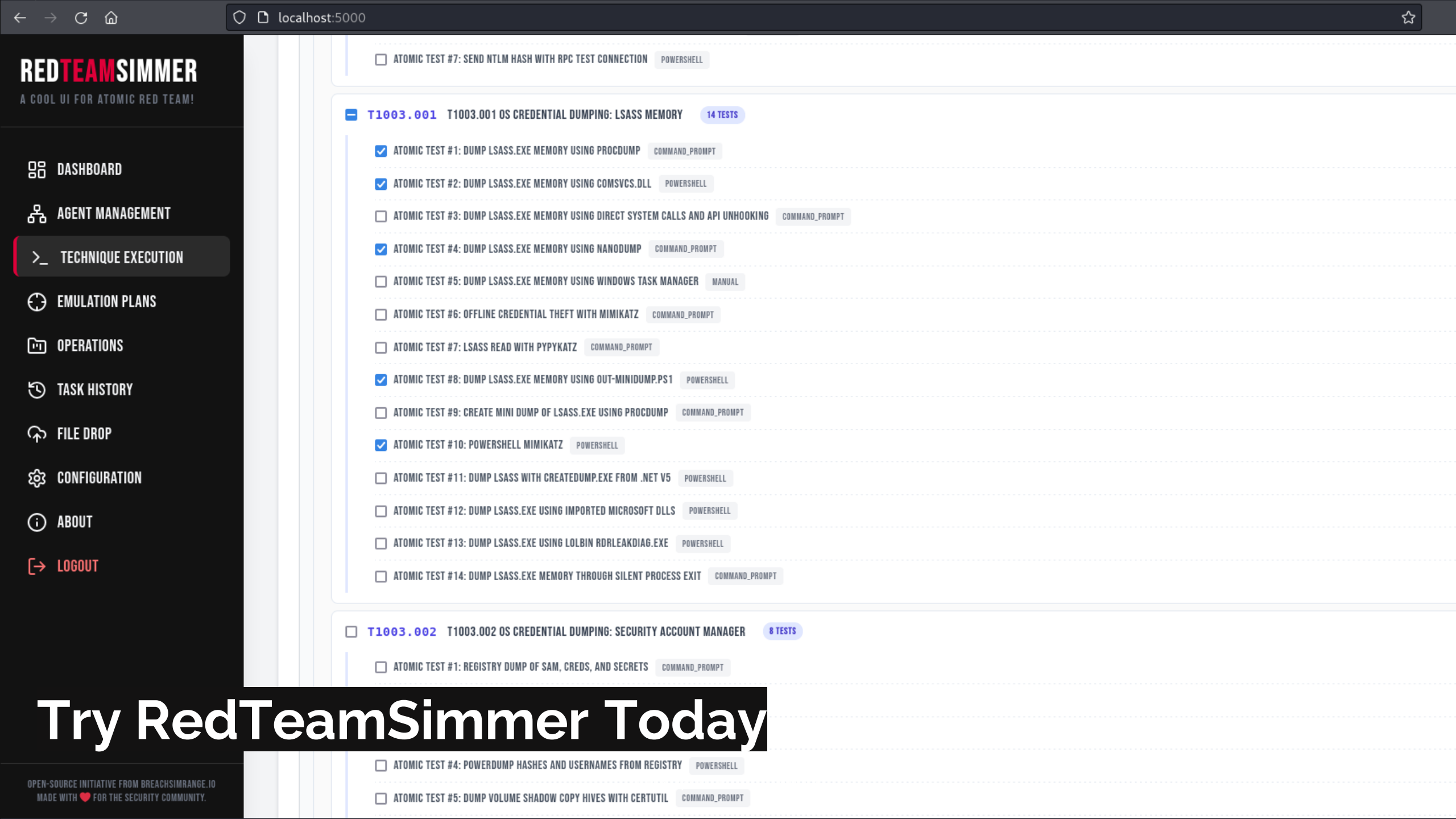
APT41 (WICKED PANDA)

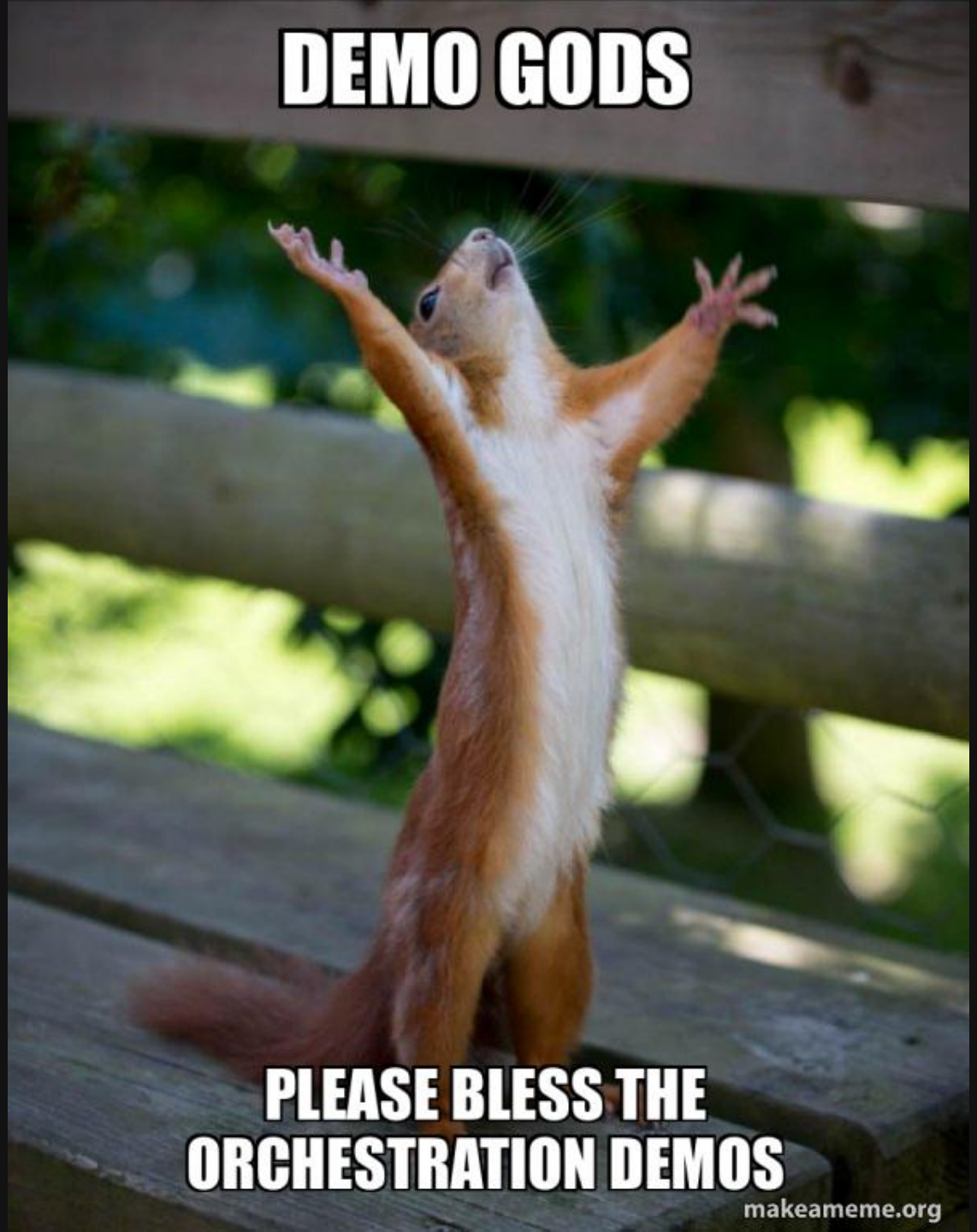
APT41, WICKED PANDA, BRASS TYPHOON

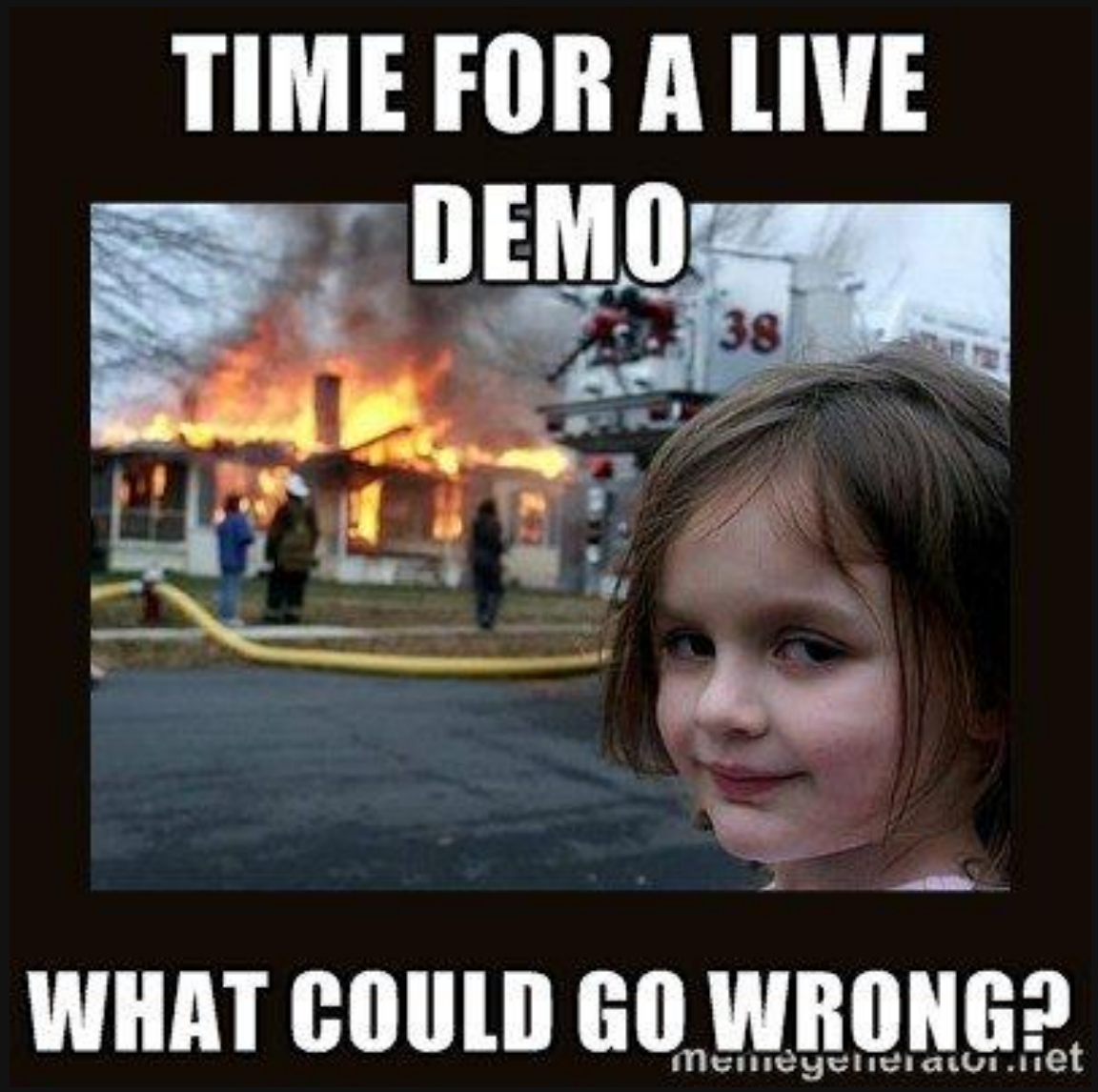
83 TESTS | 95 TECHNIQUES | 80% COVERAGE

Try RedTeamSimmer Today

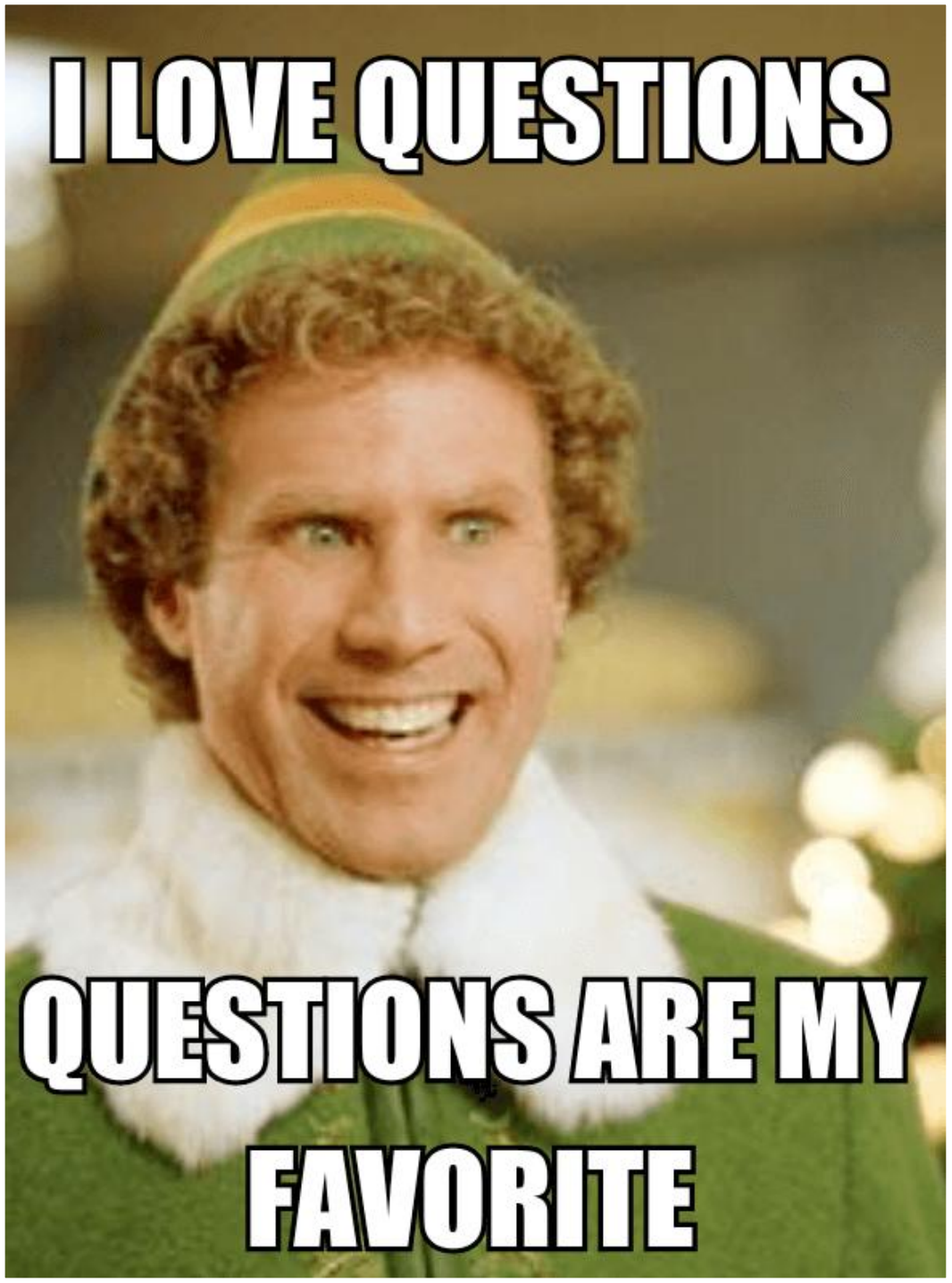
OPEN-SOURCE INITIATIVE FROM BREACHSIMRANGE.IO
MADE WITH ❤ FOR THE SECURITY COMMUNITY.


localhost:5000
REDTEAMSIMMER
A COOL UI FOR ATOMIC RED TEAM!
DASHBOARD
AGENT MANAGEMENT
TECHNIQUE EXECUTION
EMULATION PLANS
OPERATIONS
TASK HISTORY
FILE DROP
CONFIGURATION
ABOUT
LOGOUT
ATOMIC TEST #7: SEND NTLM HASH WITH RPC TEST CONNECTION POWERSHELL
T1003.001 T1003.001 OS CREDENTIAL DUMPING: LSASS MEMORY 14 TESTS
ATOMIC TEST #1: DUMP LSASS.EXE MEMORY USING PROCDUMP COMMAND_PROMPT
ATOMIC TEST #2: DUMP LSASS.EXE MEMORY USING COMSVCS.DLL POWERSHELL
ATOMIC TEST #3: DUMP LSASS.EXE MEMORY USING DIRECT SYSTEM CALLS AND API UNHOOKING COMMAND_PROMPT
ATOMIC TEST #4: DUMP LSASS.EXE MEMORY USING NANODUMP COMMAND_PROMPT
ATOMIC TEST #5: DUMP LSASS.EXE MEMORY USING WINDOWS TASK MANAGER MANUAL
ATOMIC TEST #6: OFFLINE CREDENTIAL THEFT WITH MIMIKATZ COMMAND_PROMPT
ATOMIC TEST #7: LSASS READ WITH PYPYKATZ COMMAND_PROMPT
ATOMIC TEST #8: DUMP LSASS.EXE MEMORY USING OUT-MINIDUMP.PS1 POWERSHELL
ATOMIC TEST #9: CREATE MINI DUMP OF LSASS.EXE USING PROCDUMP COMMAND_PROMPT
ATOMIC TEST #10: POWERSHELL MIMIKATZ POWERSHELL
ATOMIC TEST #11: DUMP LSASS WITH CREATEDUMP.EXE FROM .NET V5 POWERSHELL
ATOMIC TEST #12: DUMP LSASS.EXE USING IMPORTED MICROSOFT DLLS POWERSHELL
ATOMIC TEST #13: DUMP LSASS.EXE USING LOLBIN RDRLEAKDIAG.EXE POWERSHELL
ATOMIC TEST #14: DUMP LSASS.EXE MEMORY THROUGH SILENT PROCESS EXIT COMMAND_PROMPT
T1003.002 T1003.002 OS CREDENTIAL DUMPING: SECURITY ACCOUNT MANAGER 8 TESTS
ATOMIC TEST #1: REGISTRY DUMP OF SAM, CREDS, AND SECRETS COMMAND_PROMPT
ATOMIC TEST #4: POWERDUMP HASHES AND USERNAMES FROM REGISTRY POWERSHELL
ATOMIC TEST #5: DUMP VOLUME SHADOW COPY HIVES WITH CERTUTIL COMMAND_PROMPT
Try RedTeamSimmer Today
OPEN-SOURCE INITIATIVE FROM BREACHSIMRANGE.IO
MADE WITH ❤ FOR THE SECURITY COMMUNITY.


DEMO GODS
PLEASE BLESS THE ORCHESTRATION DEMOS
makeameme.org



https://breachsimrange.io



Keep in touch

https://breachsimrange.io

BLOG: https://tacticaladversary.io/blog

https://x.com/abhijithbr

linkedin.com/in-abhijith-b-r

Abx#1337

Thank You!

breachsimrange

https://breachsimrange.io