

> How to be the Best Adversary Simulator

> Adversary Village

> DEF CON 30

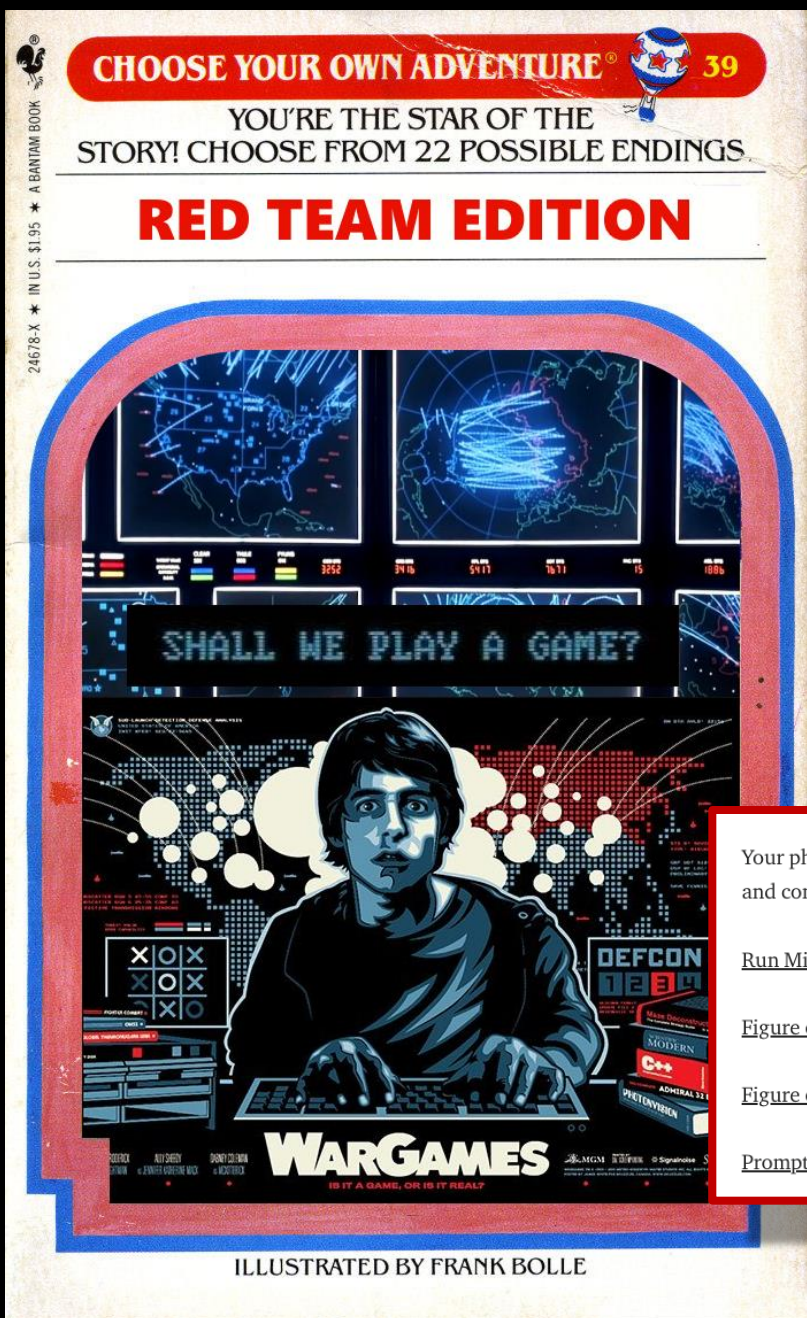
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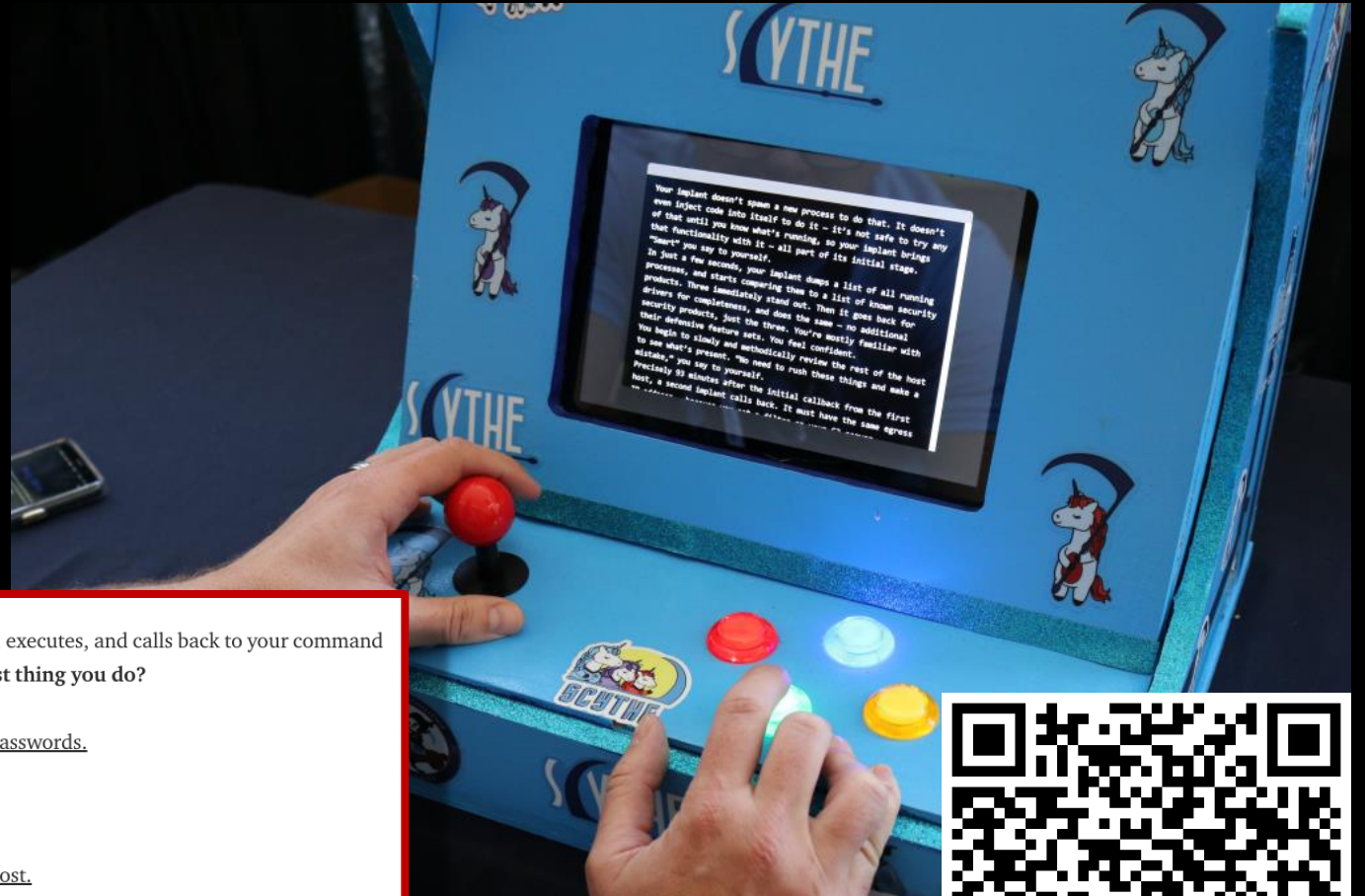
#about

- 20+ years tech/cyber
- built the red team program at Walmart (5 continents)
- CTO at Cyderes
- Head of Managed Services at Cyderes
- Advisor to Scythe
- Built/broke stuff
- Touched many \$hot_stoves
- Have opinions
- Talked at {\$places}





You might have seen
this



Your phish payload lands on a host, executes, and calls back to your command and control server. **What is the first thing you do?**

Run Mimikatz to collect plaintext passwords.

Figure out where I am.

Figure out what's running on this host.

Prompt the user for their password.



(not an actual book)

<https://malcomvetter.medium.com/>

be the best adversary simulator

1. Know what adversary simulation truly is
2. Know your customers – yes, you have them
 1. Empathize them
 2. Downstream effects of your recommendations
3. Don't fight the rat race
 1. Focus on your own self improvement
 2. Don't compare to others
 3. Find value in your customers' value
 4. Rear view mirror
4. Know yourself
 1. Find value outside of this space, or you'll burn out
 2. Find challenging hobbies
5. Celebrate wins

OFFENSIVE SECURITY QUADRANTS

Completeness of Attack Chain

Adversary Emulation

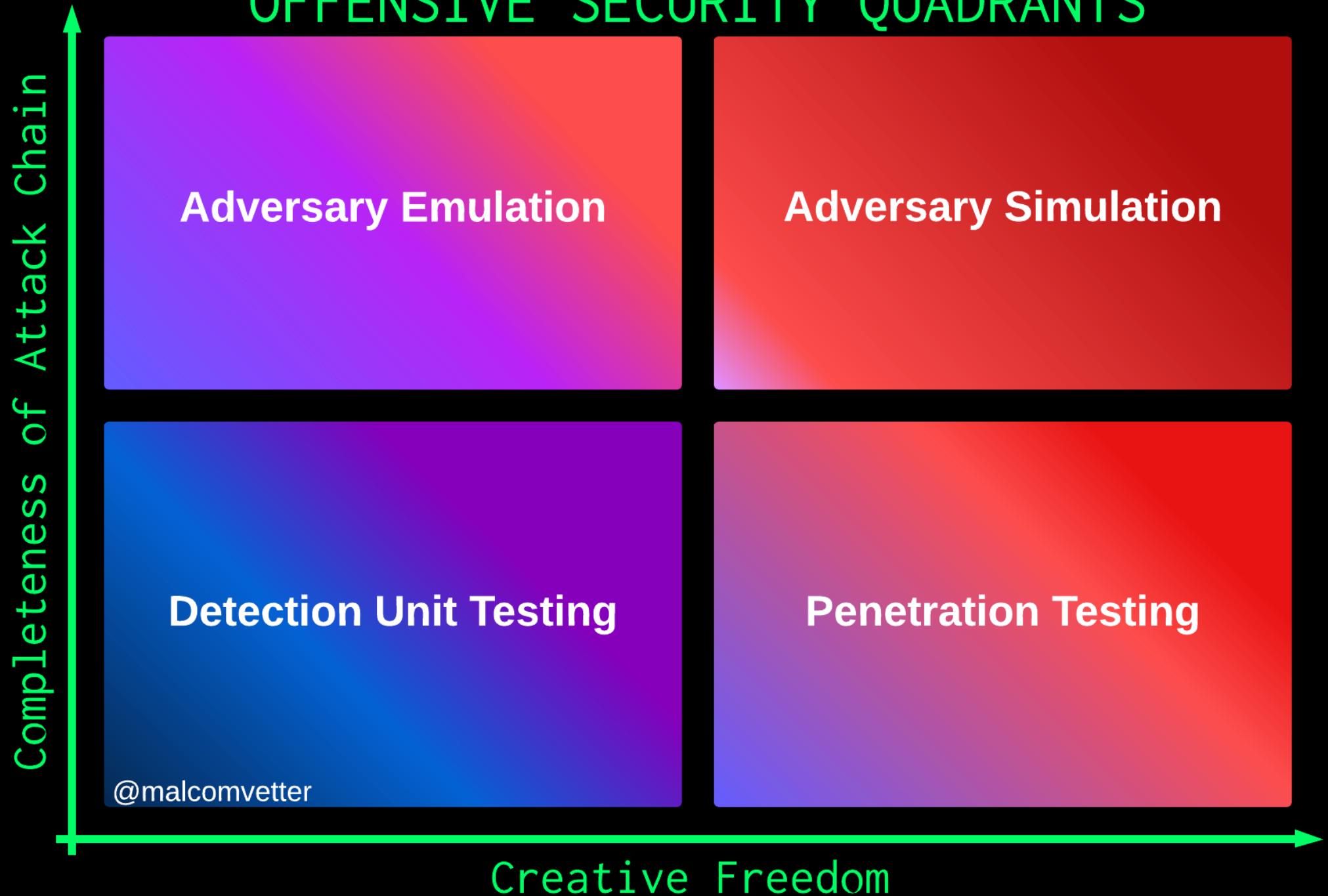
Adversary Simulation

Detection Unit Testing

Penetration Testing

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Creative Freedom





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Pentest your prevention controls
Unit test your detection controls
Red Team your response processes

👉 Mixing the above comes with diminished results.

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Tip

OFFENSIVE SECURITY QUADRANTS

Completeness of Attack Chain

Adversary Emulation

Adversary Simulation

Detection Unit Testing

Penetration Testing

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Creative Freedom

No Creativity, No
Attack Chains.

Just TTP detection
coverage.

The basics.

What every org
should do before
any of the other
stuff.

What most of us
should be working
on, Period.

OFFENSIVE SECURITY QUADRANTS

Completeness of Attack Chain

Adversary Emulation

Adversary Simulation

Detection Unit Testing

Penetration Testing

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Creative Freedom

Maximum Creativity
with
Zero Attack Chain.

Find clever ways to
exploit something,
but no lateral
movement and limited
privesc.

Important work, but
sometimes
unrealistic.

"If I line all these
items up in a once in
a billion situation,
I can pwn all the
things."



DANGER



MINES

Emulation: (computing definition) *reproduction of a function or action on a different computer or software system.* This is an older word used since before the 16th century English.

Simulation: *imitation of a situation or process; the action of pretending; the production of a computer model for the purpose of study or learning.* This is a newer word, first in widespread use during the mid 20th century.

False Flag: *a covert operation designed to deceive by creating the appearance of a particular party or group being responsible for the activity, disguising the true source of responsibility.*



OFFENSIVE SECURITY QUADRANTS

Completeness of Attack Chain

Adversary Emulation

Adversary Simulation

Detection Unit Testing

Penetration Testing

Maximum Creativity
+
Complete Attack
Chains

What most OffSec
people think of
when they hear "Red
Team"

What most lay
people think of
when they hear
"penetration test"

Be like an
adversary, don't be
identical to a
specific adversary.

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Creative Freedom

OFFENSIVE SECURITY QUADRANTS

Completeness of Attack Chain

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Penetration Testing

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Creative Freedom

No Creativity
Allowed.

Execute what the
threat actor
executed, how the
threat actor
executed it.

Only as good as
Threat
Intelligence
details.

But Johnny Q. CISO
can tell the board
"If APT99 hit us
tomorrow with
their techniques
from 5 years ago,
we'd be ready."



Tim MalcomVetterTM

@malcomvetter



I'm over here eating crow. Laugh at this with me, then realize your crow will come, too.

For all the times, as a red teamer/pentester when I wrote something dismissive like "just implement a detection for that" ...

1/

12:01 PM · Jun 28, 2022 · Twitter Web App





“Nobody cares, work harder.”
- Cam Hanes



Find something else to humble and challenge you.



