



Hackers:

Who, what, why, how?

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What will I be covering?

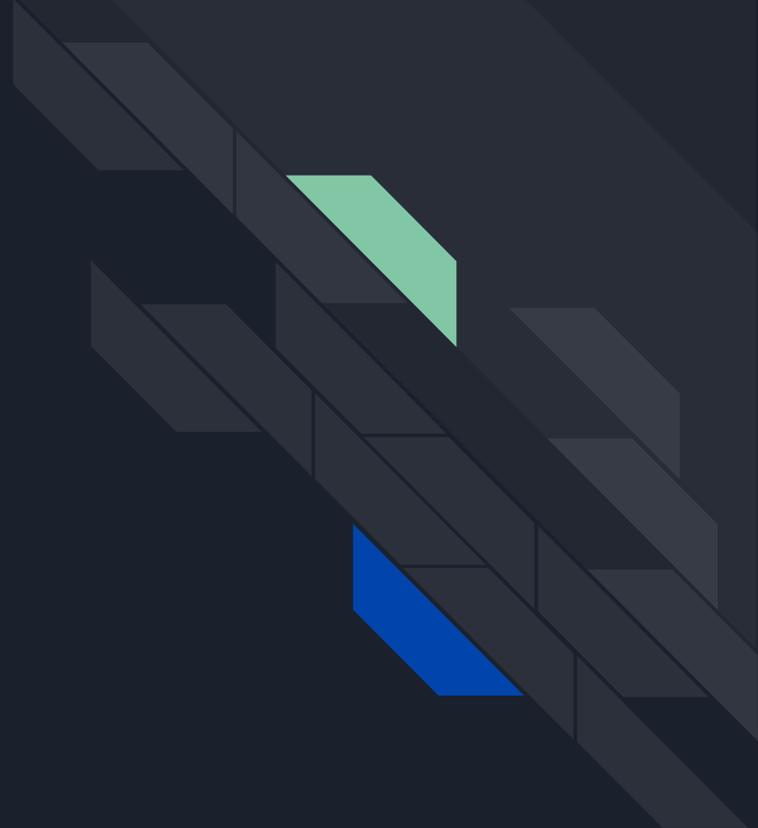
- What is a hacker?
- Who are hackers?
- Why do they hack?
- How do they hack?



What's my experience with Cyber?

- 8 years in Cyber Security, 11 (inclusive) in IT
- Previous Positions
 - Cyber Security Researcher
 - Cyber Security Research Engineer
 - Assistant Director Cyber Threat Intelligence Technical Capability
 - Security Operations Centre Lead
- Relevant Qualifications:
 - GIAC Certified Industrial Control Systems Professional (GICSP)
 - GIAC Certified Penetration Tester (GPEN)
 - GIAC Certified Continuous Monitoring Analyst (GMON)
- ComfyCon AU Founder

What is a hacker?





Onorato, Joseph and Mark Schupack. 2002. *Tech Model Railroad Club of MIT: The First Fifty Years*. Cambridge MA: TRMC. Pp. 42-7, 66-8.

The Tech Model Railroad Club at MIT

Just as Disney's Railroad and Monorail spoke moral agendas to the world, the TRMC railroad also spoke in anticipatory transposition. There was a real world visible to viewers, faithfully represented in historical detail, and below there was an abstract world of electronic control—The System literally and metaphorically underneath the baseboard. The process of The System's evolution was via a series of innovations called "hacks." The Signals and Power people called themselves "hackers."

HACK:... an unconventional or unorthodox application of technology.

HACKER: one who hacks, or makes them. A hacker avoids the standard solution. The hack is the basic concept; the hacker is defined in terms of it.



The Hacker Manifesto

“This is our world now... the world of the electron and the switch, the beauty of the baud. We make use of a service already existing without paying for what could be dirt-cheap if it wasn't run by profiteering gluttons, and you call us criminals. We explore... and you call us criminals. We seek after knowledge... and you call us criminals... You build atomic bombs, you wage wars, you murder, cheat, and lie to us and try to make us believe it's for our own good, yet we're the criminals...

“Yes, I am a criminal. My crime is that of curiosity... My crime is that of outsmarting you...

“I am a hacker, and this is my manifesto. You may stop this individual, but you can't stop us all.”

Dictionary

Search for a word



hacker

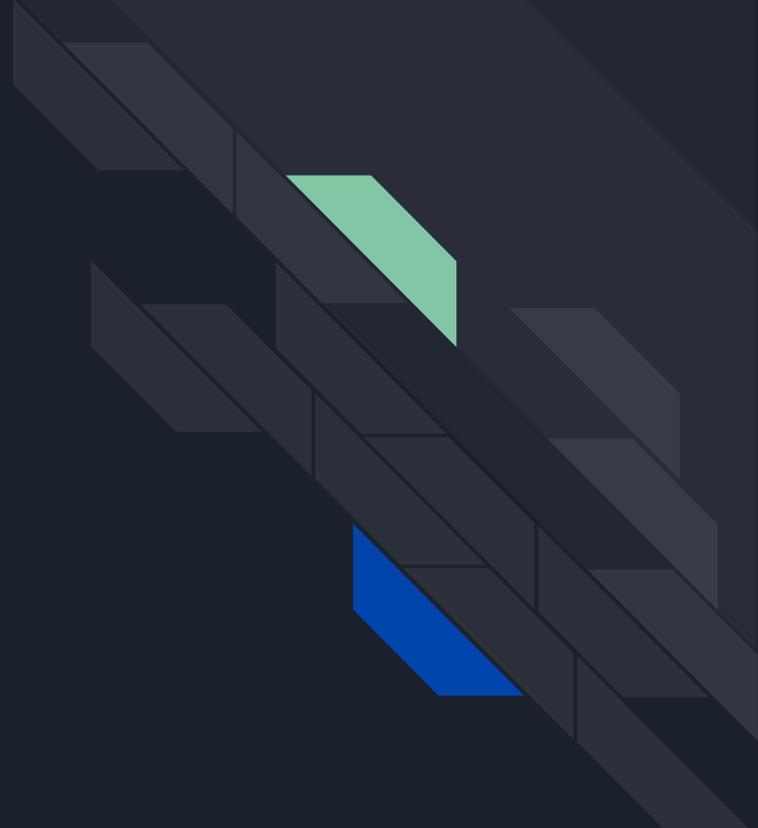
/'hakə/

noun

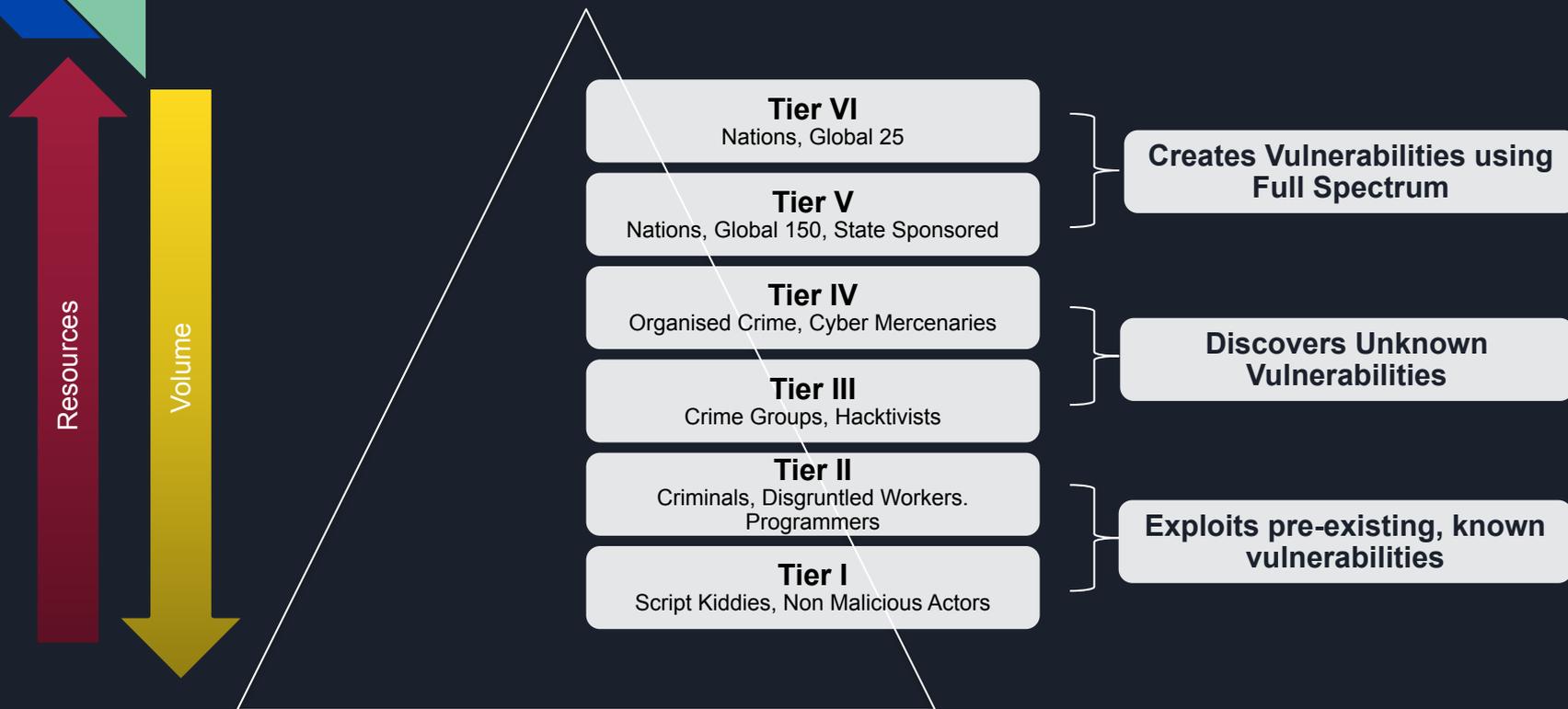
1. a person who uses computers to gain unauthorized access to data.
2. ~~a person or thing that hacks or cuts roughly.~~



Who are hackers?



Threat Actor Tiers





SCRIPT KITTIES

DON'T STAND A CHANCE



THIS GUY
IS THE REASON YOU CAN'T GO TO A PARK
FULL OF AWESOME DINOSAURS



NIGERIAN PRINCE NEEDS \$100K?

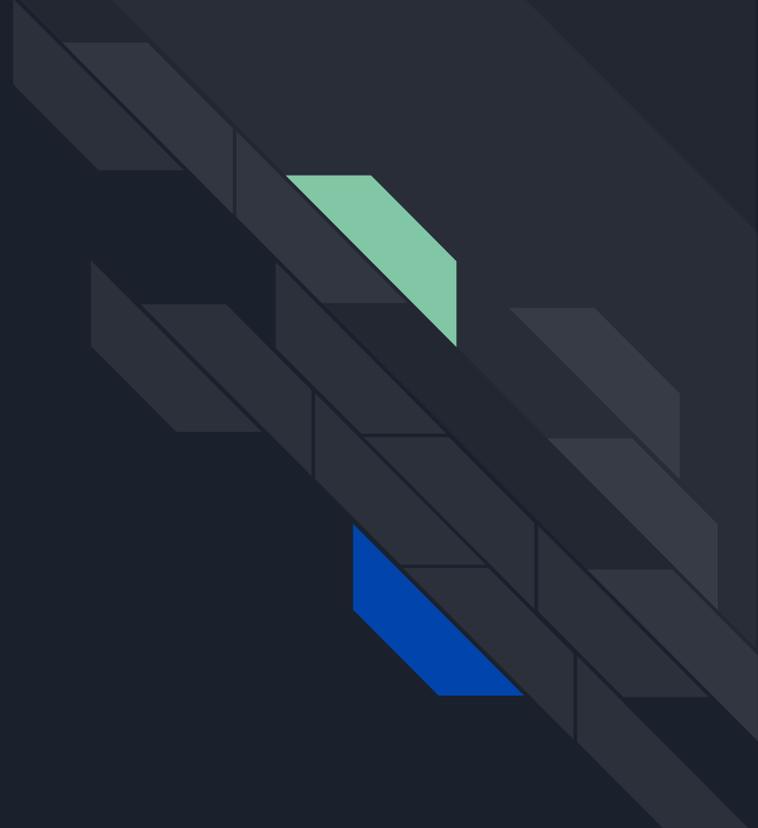
WHERE'S MY CHECKBOOK?



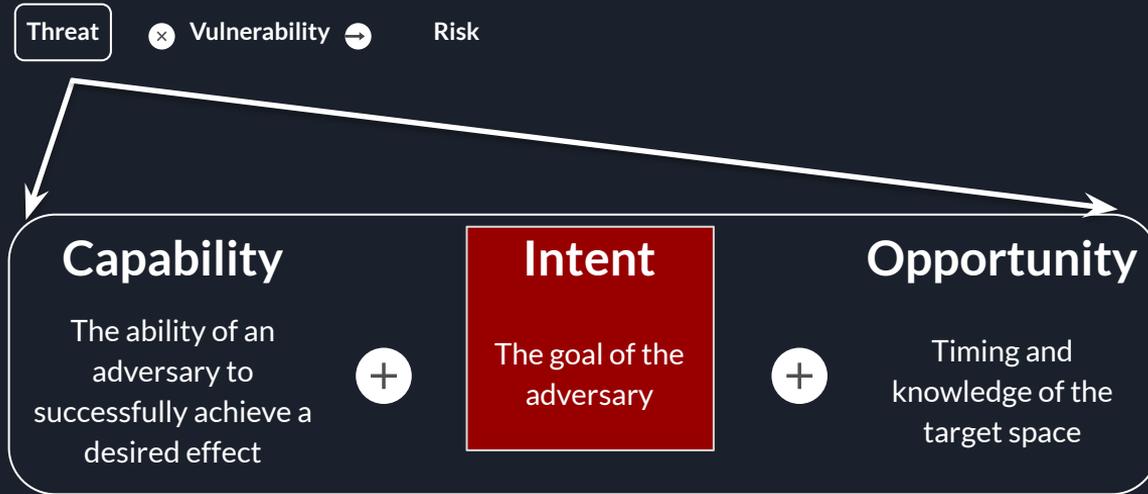
When you put 'password'
in the password field
and it works.



Why do they hack?



Capability, Intent, Opportunity

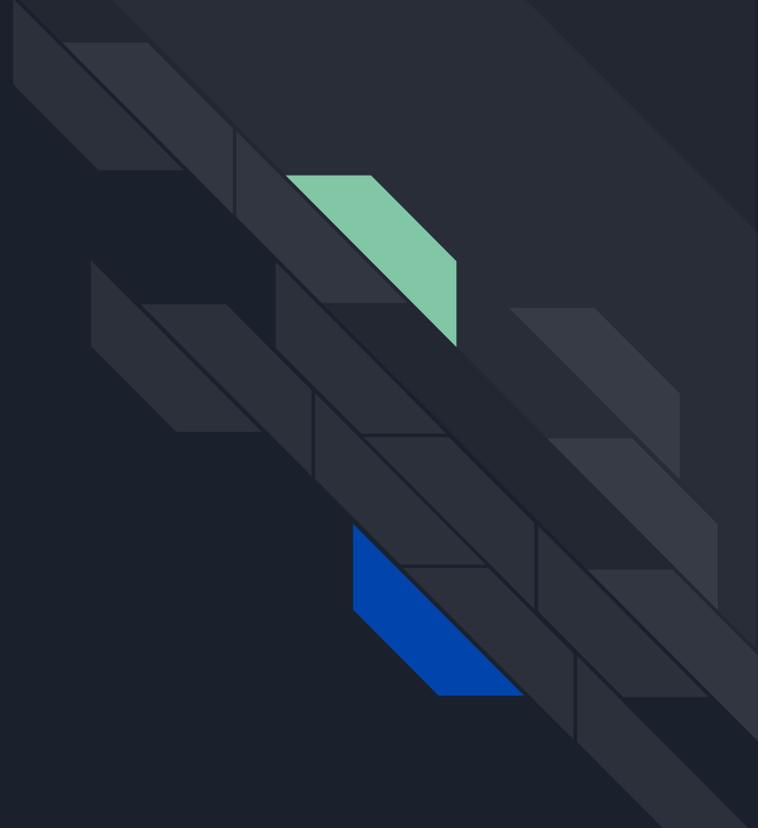




Intents

- Financial gain or reputation enhancement
- Seek revenge
- Espionage, political, economic, or military
- Political, social, or ideological
- Propaganda

How do they hack?





Cyber Kill Chain

