You’re Probably Not Red Teaming

…and Often, I’m Not Either



Deviant Ollam

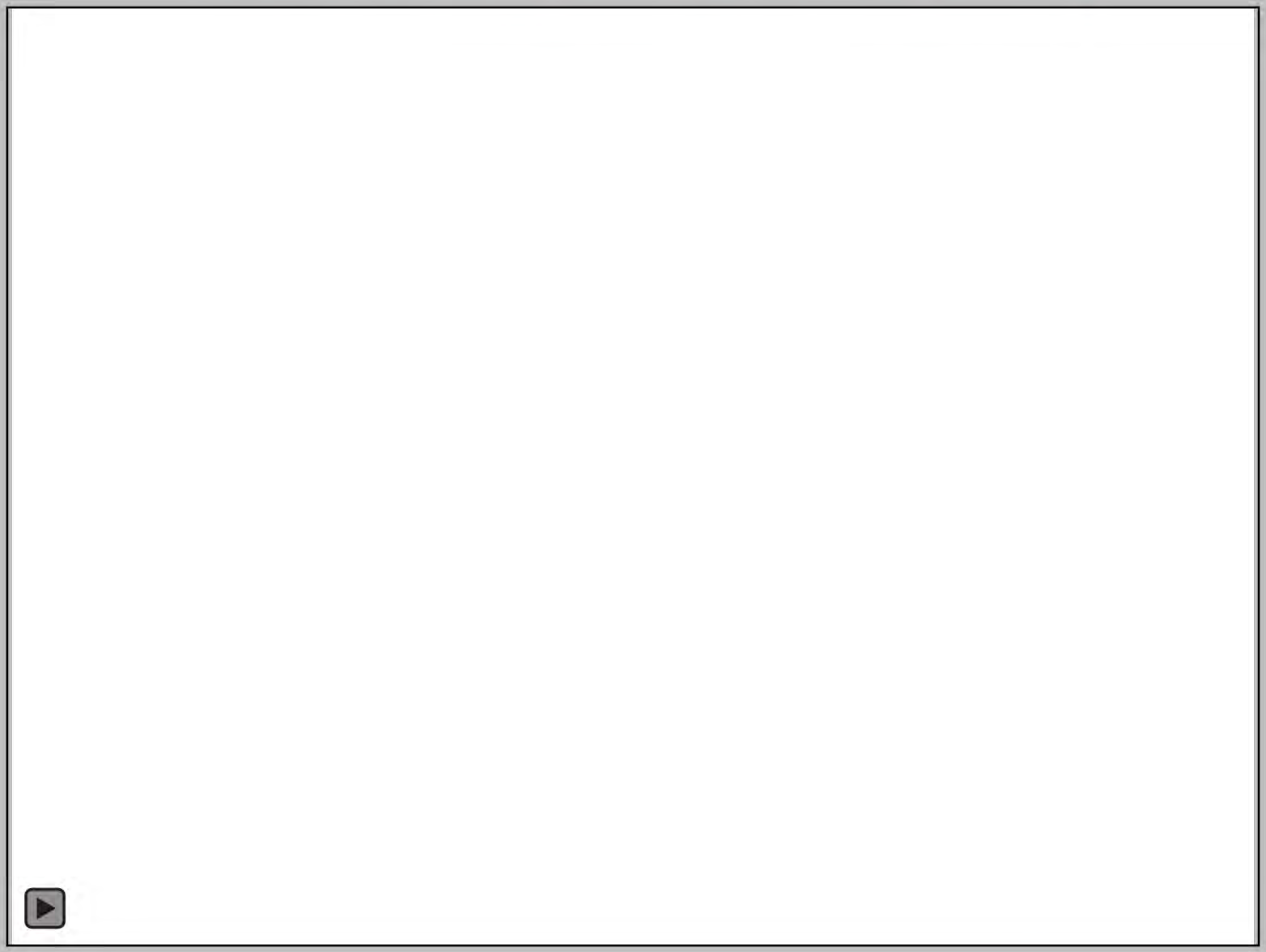
My Job is Fun



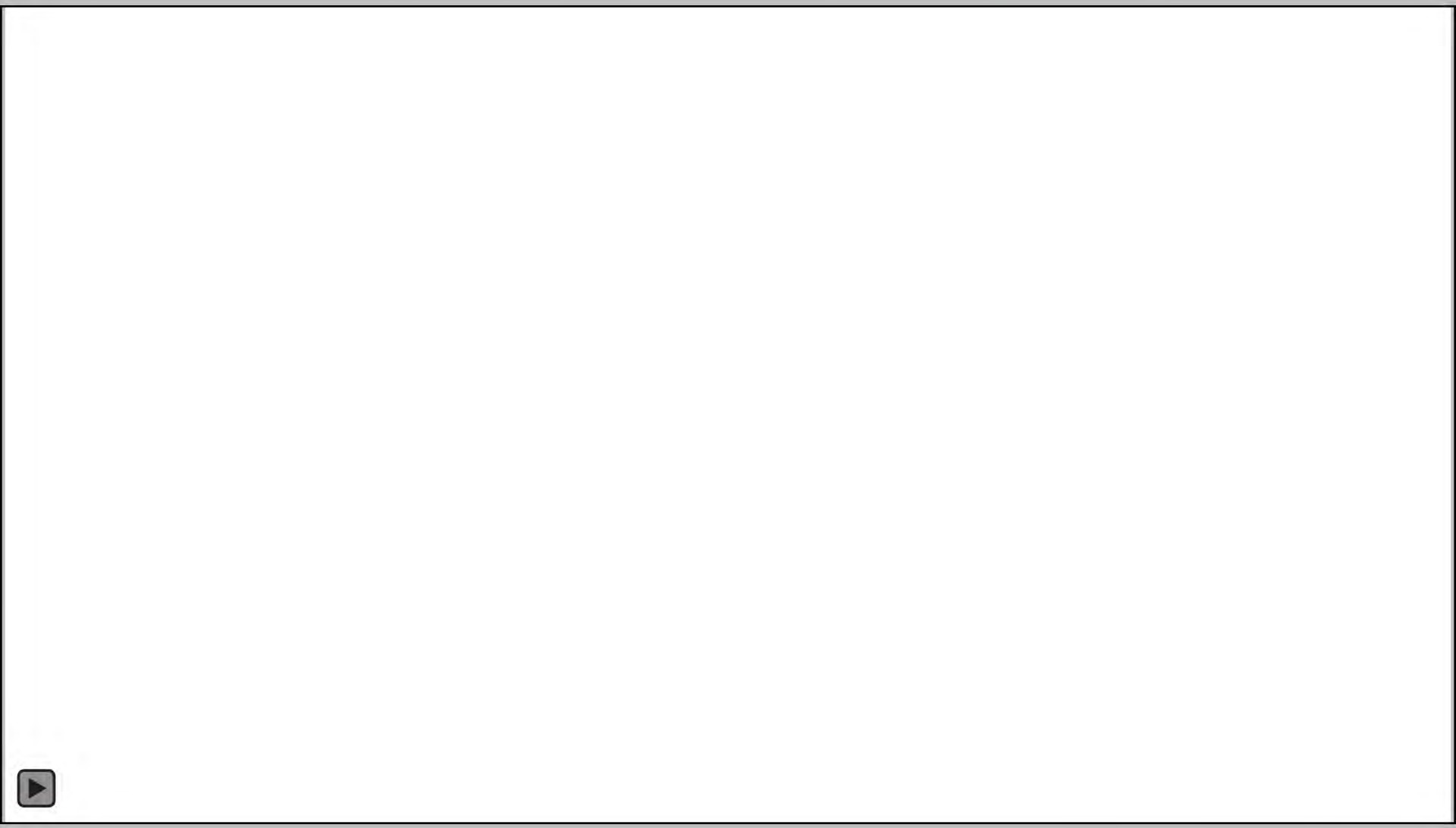
We Don’t Belong in Here!



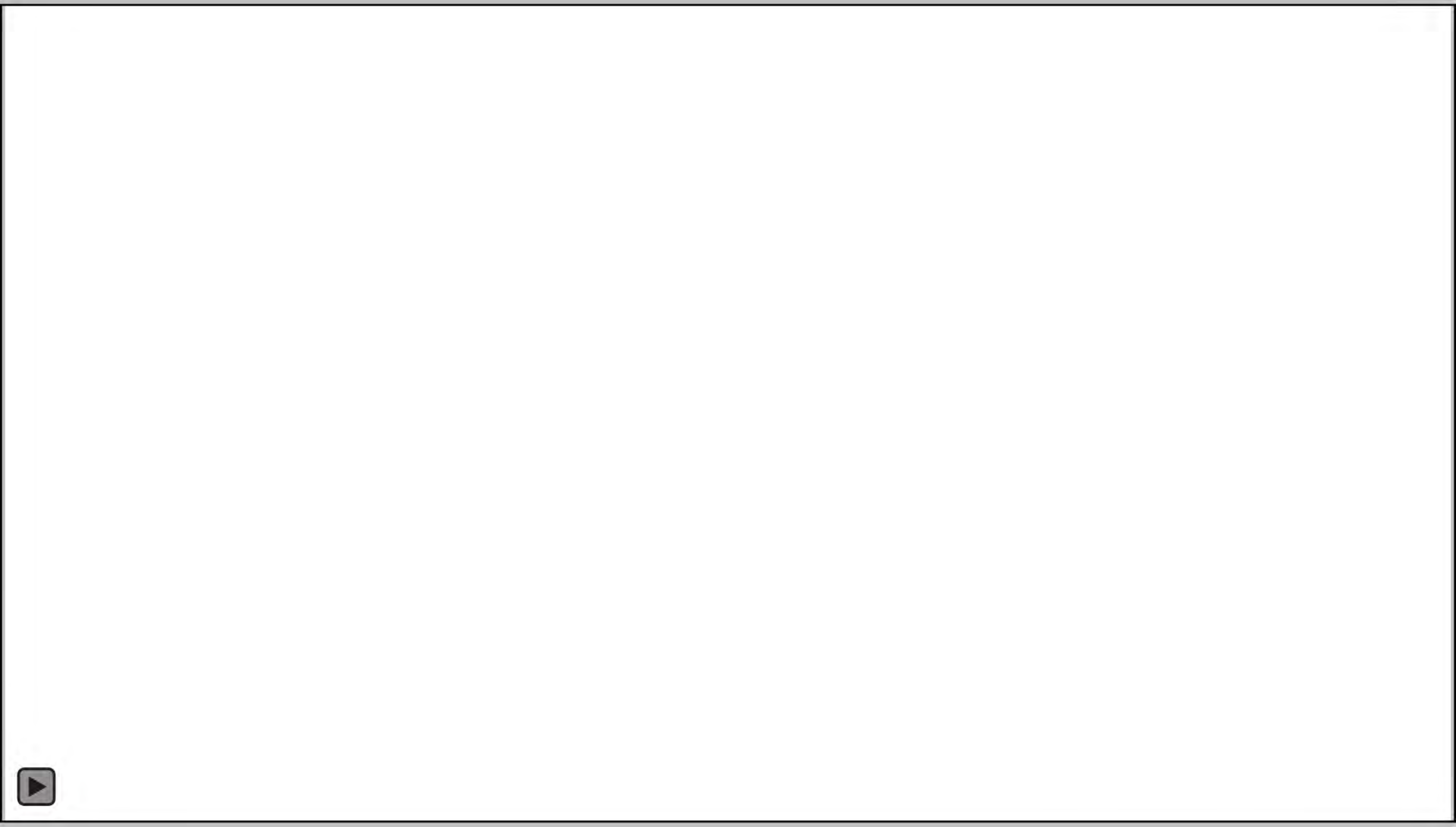
I Get Inside Quickly and Quietly



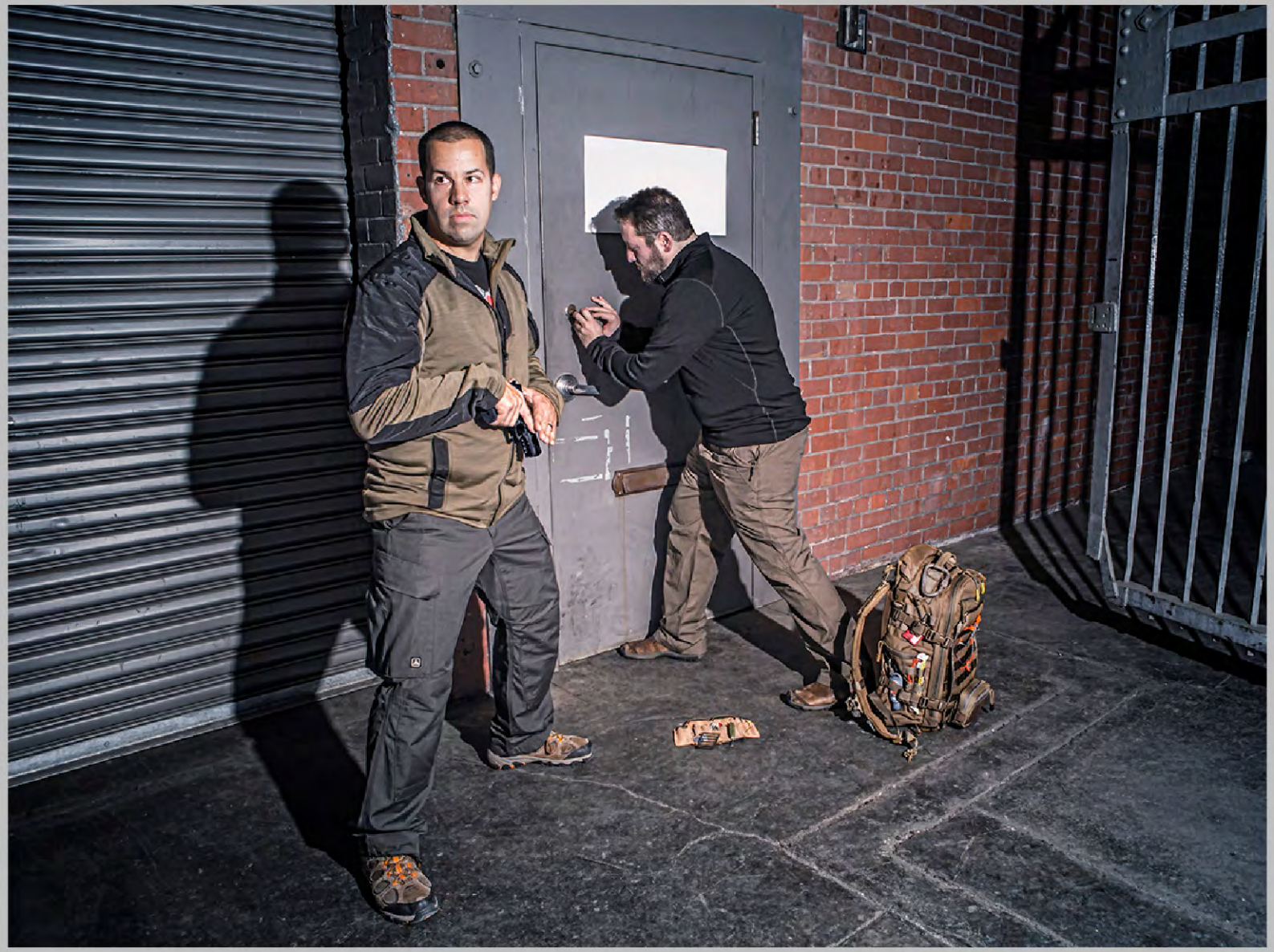
I Get Inside Quickly and Quietly



I Get Inside Quickly and Quietly



People Want to Do This



I Bet Many People Here Believe That What You Just Saw is “Red Teaming”



I Bet Many People Here Believe That What You Just Saw is “Red Teaming”



… It’s Not.

Where The Red Team Fits Has Been Discussed Previously... by Folk Way Smarter, Cooler, and More Attractive Than Me

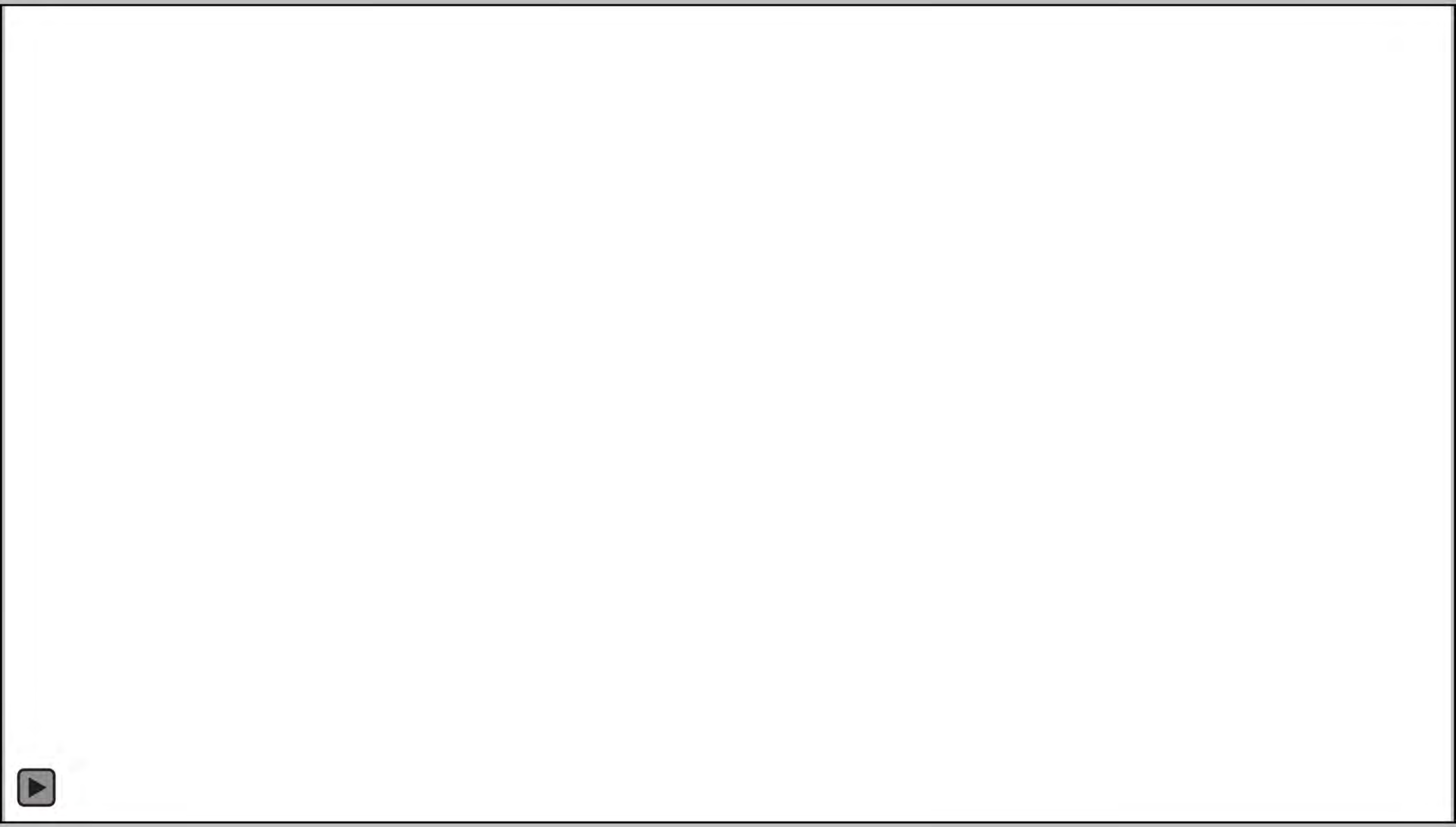








Talk of Purple Teaming is Becoming Popular



Talk of Purple Teaming is Becoming Popular

"That's when the Red Team sends an extra person to sit in the SOC with the Blue Team… and then they get to charge the client double."

- Chris Gates



There Are Three Elements To Security



There Are Three Elements To Security



There Are Three Elements To Security



Digital



Physical



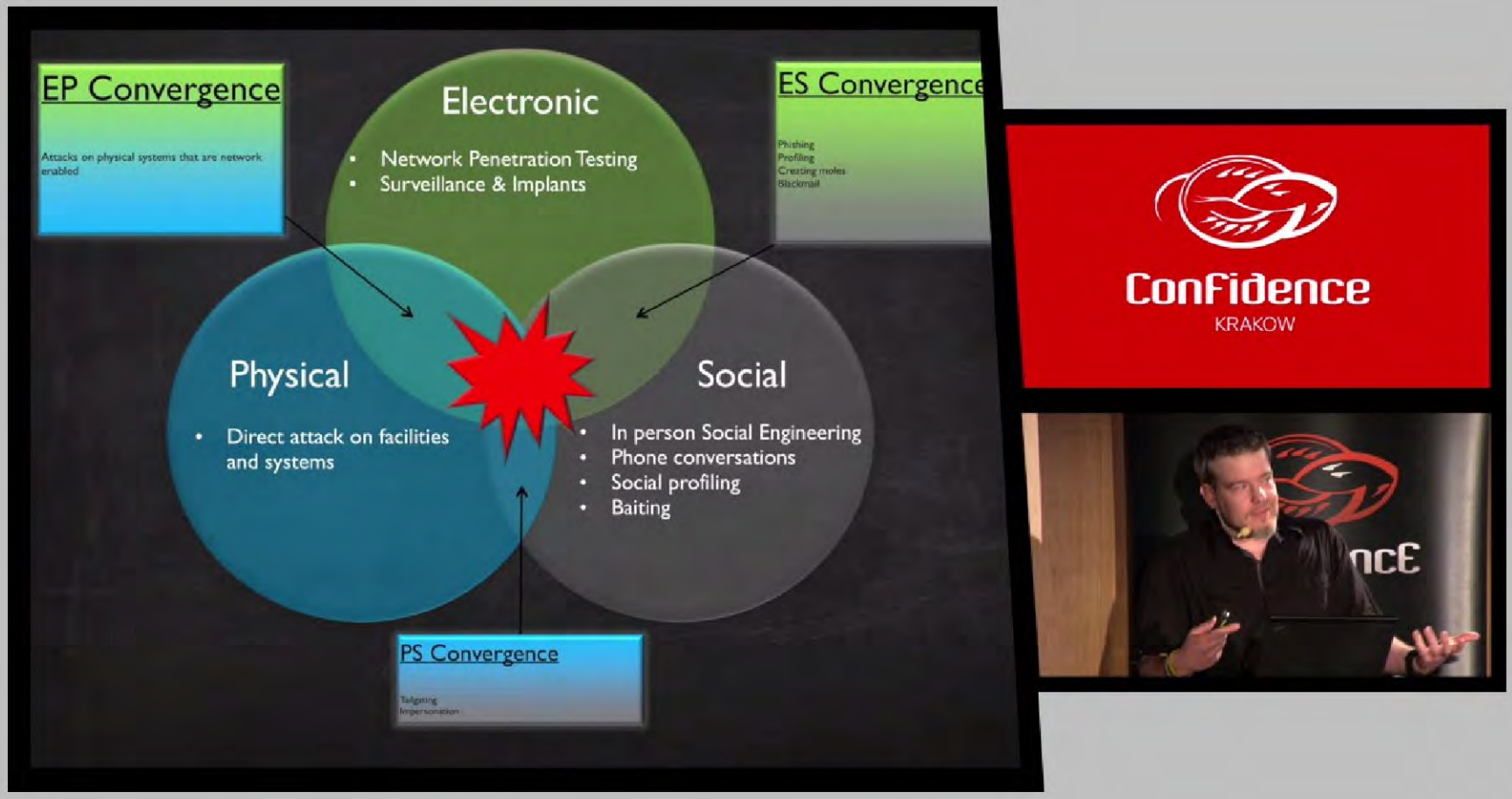
Human



And There's Crossover



And There's Crossover



Attacking via the Physical Vector



Covert Methods of Entry



Covert Methods of Entry



Covert Methods of Entry



Covert Methods of Entry



Covert Methods of Entry



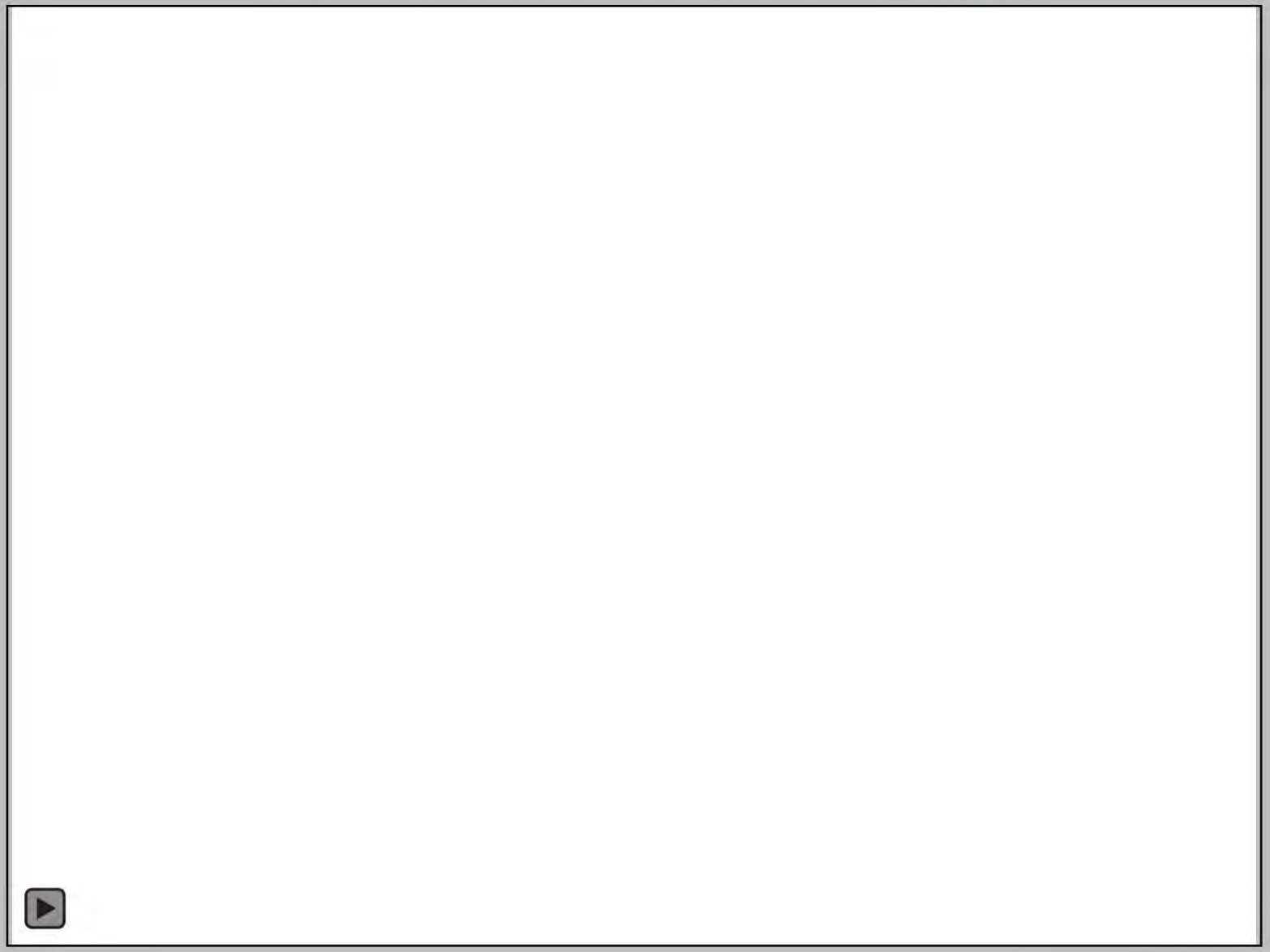
Covert Methods of Entry



Covert Methods of Entry



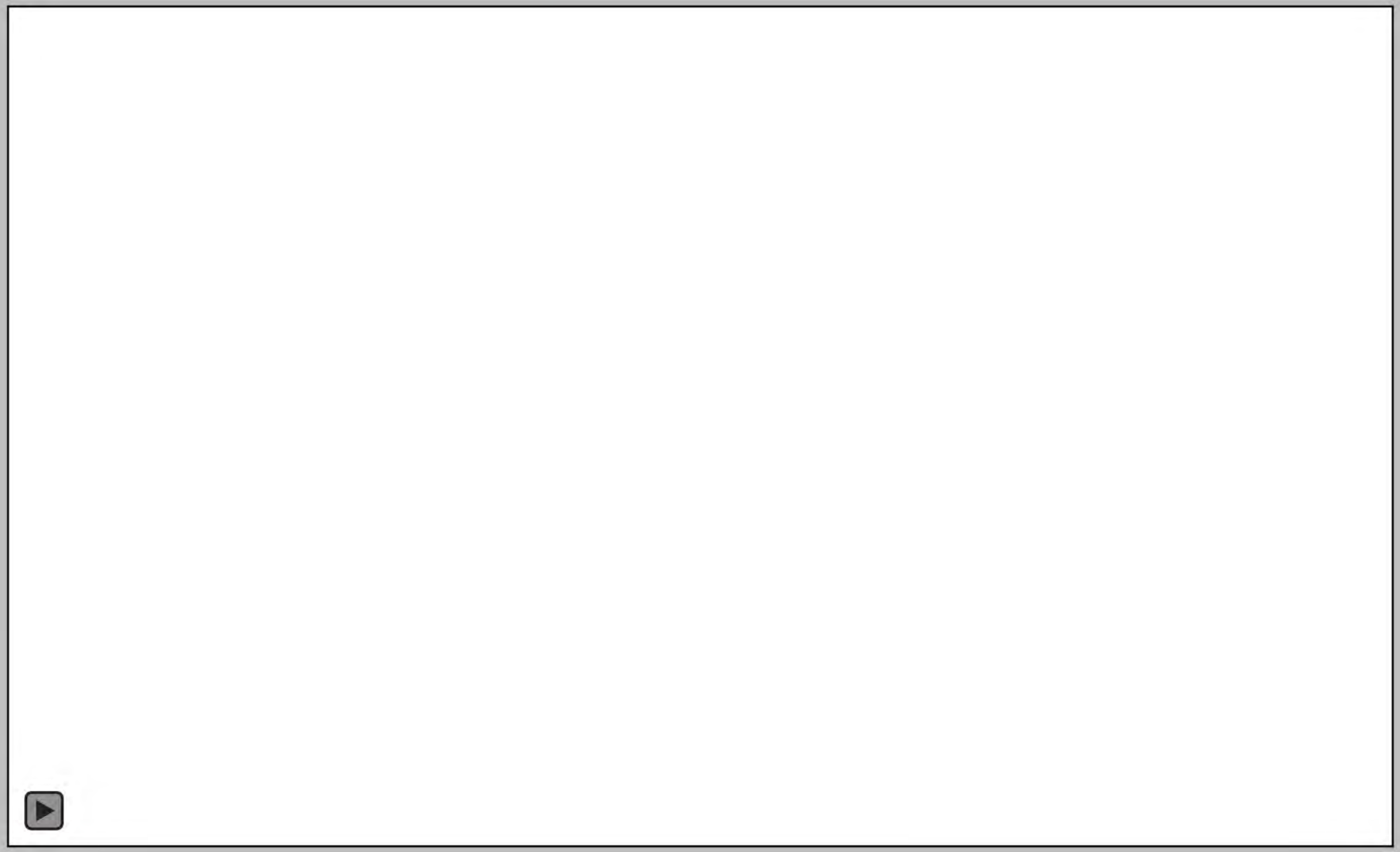
Covert Methods of Entry



Attacking via the Digital Vector



Network Security & Access Control Systems



Network Security & Access Control Systems



Network Security & Access Control Systems



Attacking via the Human Vector



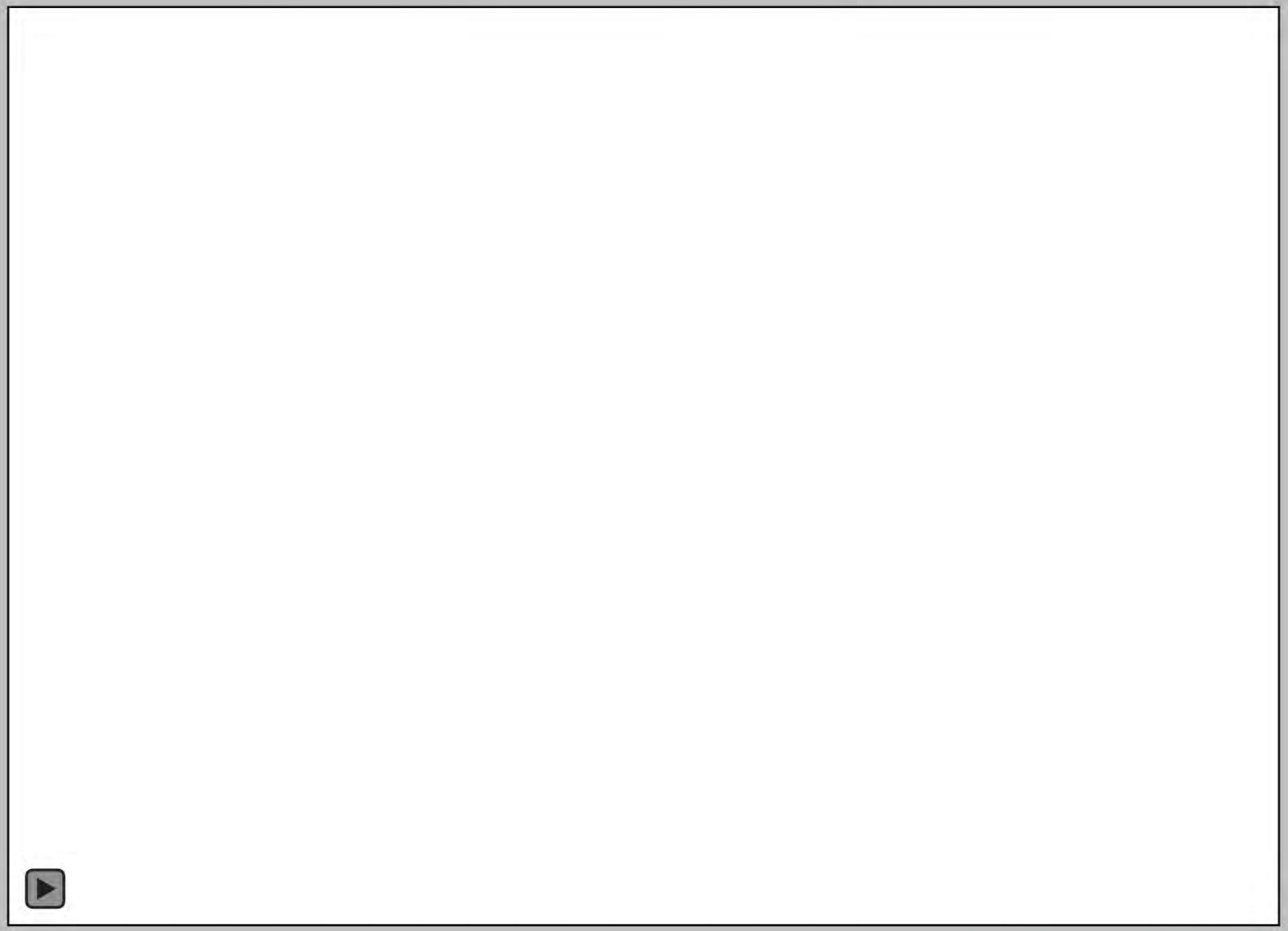
Look Like You Belong There



Look Like You Belong There



Look Like You Belong There



Look Like You Belong There



Look Like You Belong There



Some Stories... and Some Questions



Story Number One: Elevator Repair



Elevator Technician is a Great Cover Story



Elevator Technician is a Great Cover Story



Elevator Technician is a Great Cover Story



Elevator Technician is a Great Cover Story



Elevator Technician is a Great Cover Story



A Metal Contractor Clipboard is Awesome



A Metal Contractor Clipboard is Awesome



So I’m in the Building…



...Teammate Had to Go Back to the Hotel



I've Got Nothing But Time



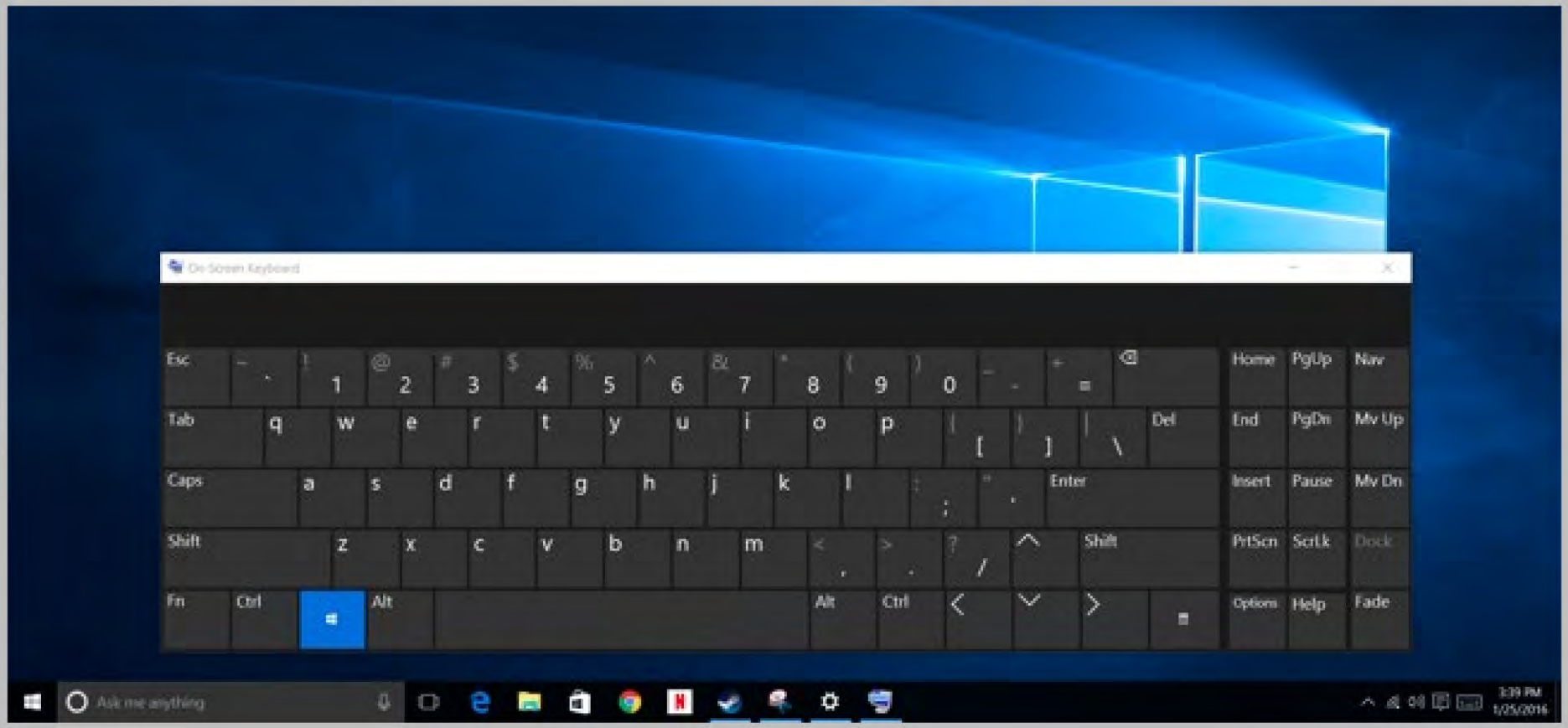
I've Got Nothing But Time



Things at the Hotel Were Going Slowly



Things at the Hotel Were Going Slowly



Then I Nearly had a Heart Attack



I Figured it Must Be The Cleaners



It Wasn't



It Wasn't


OUT
OF
ORDER
1 - LOWER LEVEL
2 - MAIN LOBBY
FLOOR 3
OFFICE CENTER
OFFICES

Fortunately, I'm a Friendly Elevator Technician



“I’ll Have to Check the Elevator Controller in Here”



Everyone Wants to Keep the Elevators Working



Story Number Two: The Cable Technicians



Preliminary Recon



“Look Like You Belong There”

















"Look Like You Belong There"

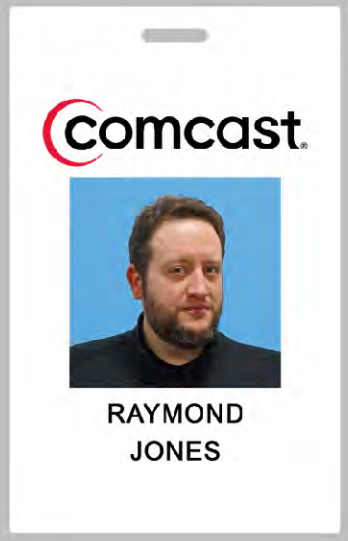
















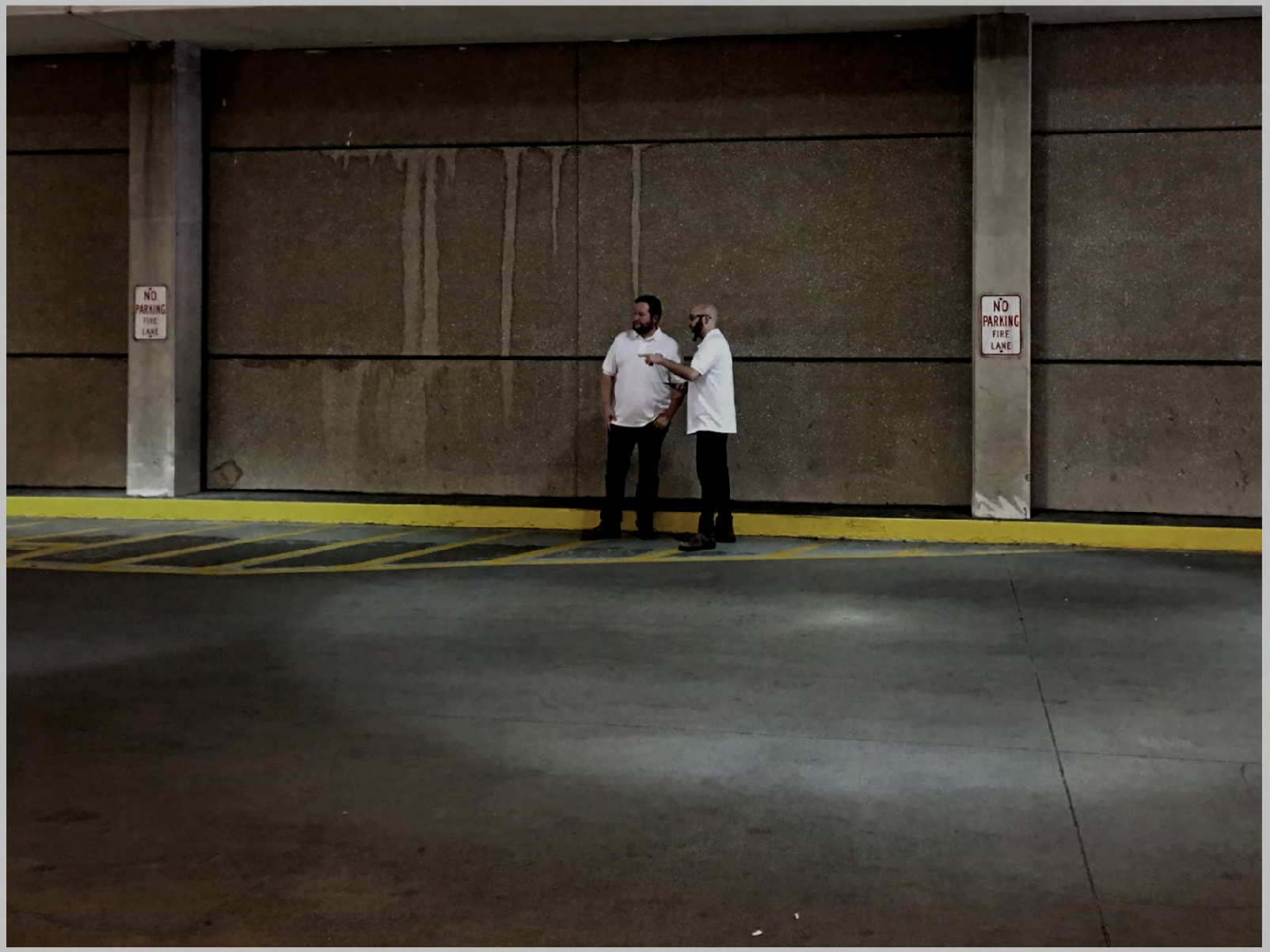
The Cable Technicians



The Cable Technicians



The Cable Technicians



The Cable Technicians



What Would You Do?



Make a New Friend!



We're Totally Legit... Trust Us.



Do You Think He Verified Our Story?



How Did We Get In?



How Did We Get In?



Later, Inside the Office



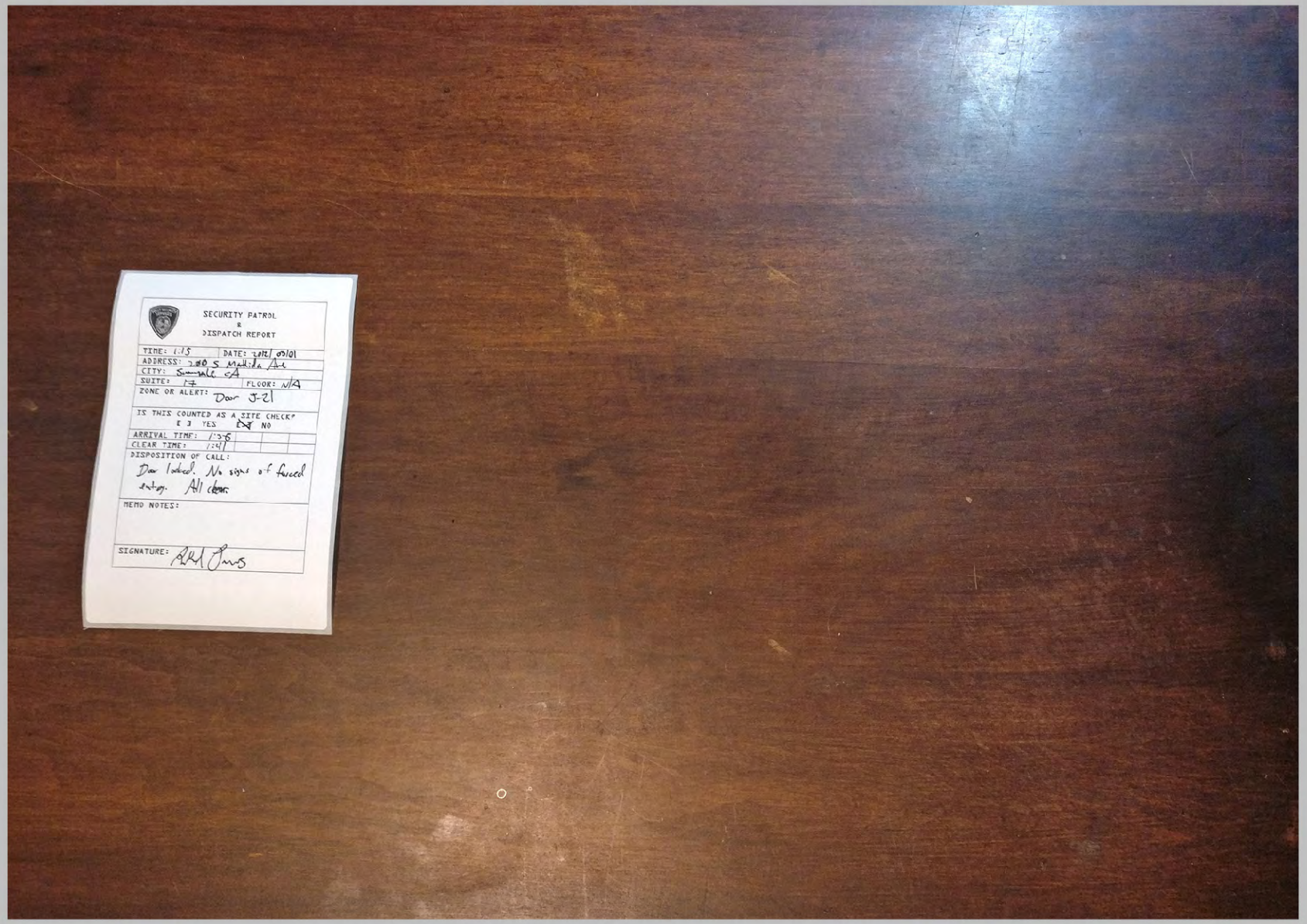
Later, Inside the Office



Total Victory Winning



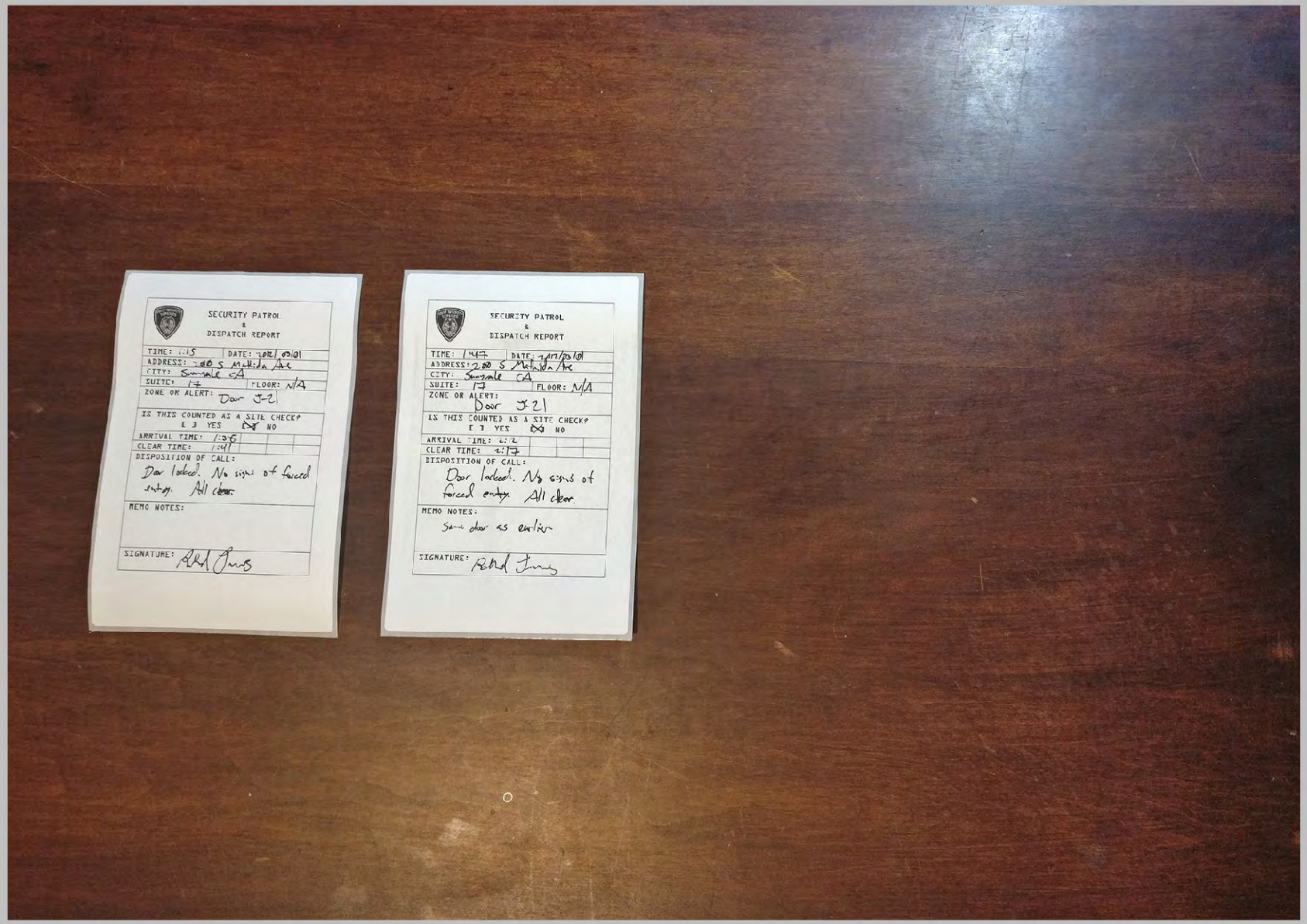
The Client Actually Pulled the Dispatch Tickets



SECURITY PATROL
&
DISPATCH REPORT

TIME: 1:15 DATE: 2012/ 05/01
ADDRESS: 2100 S Main St A-L
CITY: Santa Ana CA
SUITE: 12 FLOOR: N/A
ZONE OR ALERT: Door J-21
IS THIS COUNTED AS A SITE CHECK?
☐ YES ☒ NO
ARRIVAL TIME: 1:26
CLEAR TIME: 1:41
DISPOSITION OF CALL:
Door locked. No signs of forced entry. All clear.
MEMO NOTES:
SIGNATURE: R. Jones

The Client Actually Pulled the Dispatch Tickets



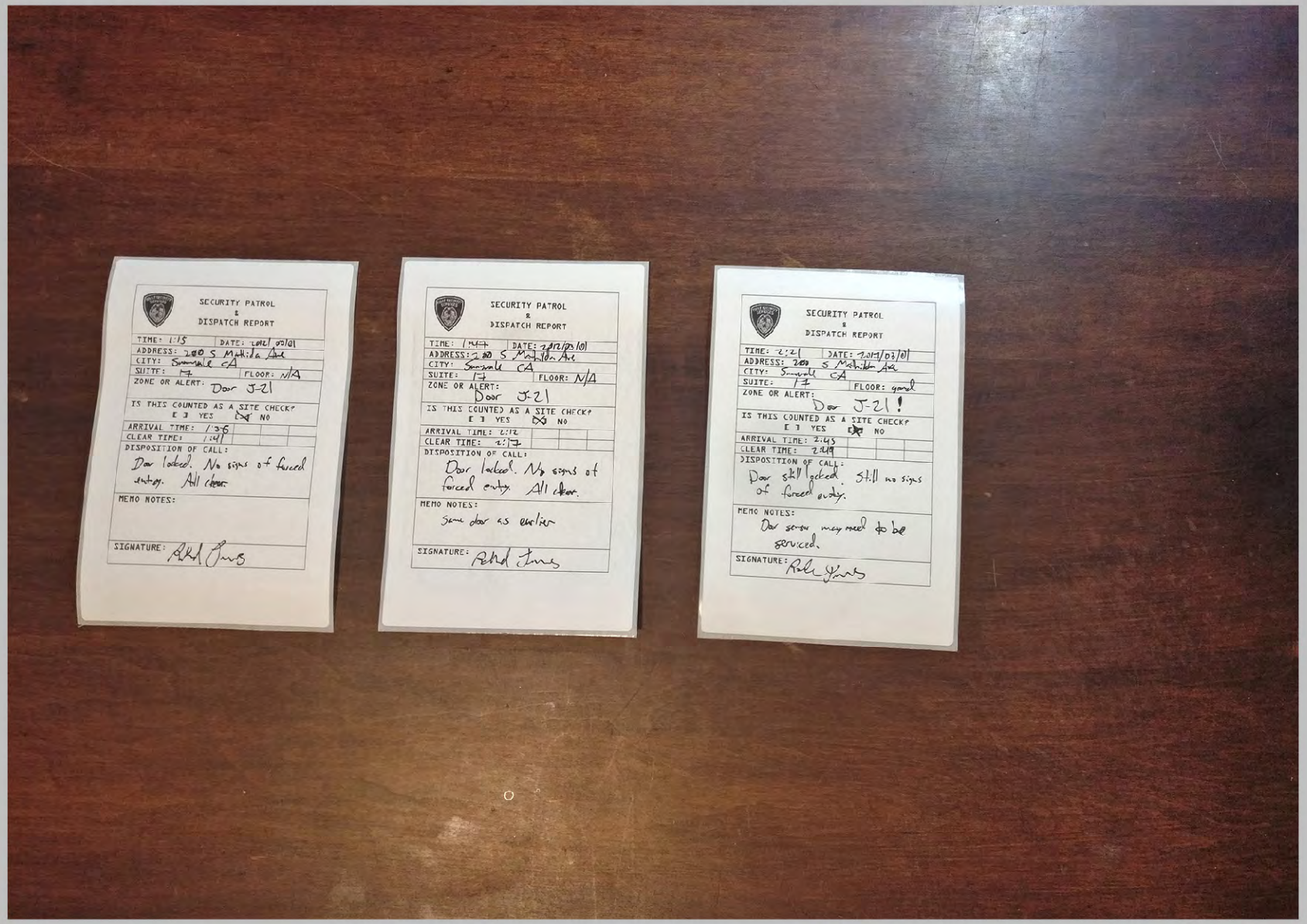
SECURITY PATROL
&
DISPATCH REPORT

TIME: 1:15 DATE: 10/2/0101
ADDRESS: 200 S Matilda Ave
CITY: Sunnyvale CA
SUITE: 17 FLOOR: N/A
ZONE OR ALERT: Door J-21
IS THIS COUNTED AS A SITE CHECK?
☐ YES ☒ NO
ARRIVAL TIME: 1:35
CLEAR TIME: 1:41
DISPOSITION OF CALL:
Door locked. No signs of forced entry. All clear.
MEMO NOTES:
SIGNATURE: Richard Jones

SECURITY PATROL
&
DISPATCH REPORT

TIME: 1:47 DATE: 10/2/0101
ADDRESS: 200 S Matilda Ave
CITY: Sunnyvale CA
SUITE: 17 FLOOR: N/A
ZONE OR ALERT: Door J-21
IS THIS COUNTED AS A SITE CHECK?
☐ YES ☒ NO
ARRIVAL TIME: 2:12
CLEAR TIME: 2:17
DISPOSITION OF CALL:
Door locked. No signs of forced entry. All clear.
MEMO NOTES:
Same door as earlier
SIGNATURE: Richard Jones

The Client Actually Pulled the Dispatch Tickets



SECURITY PATROL & DISPATCH REPORT

TIME: 1:15 DATE: 2011 05/01
ADDRESS: 200 S Mathilda Ave
CITY: Sunnyvale CA
SUITE: 1-4 FLOOR: N/A
ZONE OR ALERT: Door J-21
IS THIS COUNTED AS A SITE CHECK? ☐ YES ☒ NO
ARRIVAL TIME: 1:36
CLEAR TIME: 1:41
DISPOSITION OF CALL: Door locked. No signs of forced entry. All clear.
MEMO NOTES:
SIGNATURE: Rob Jones

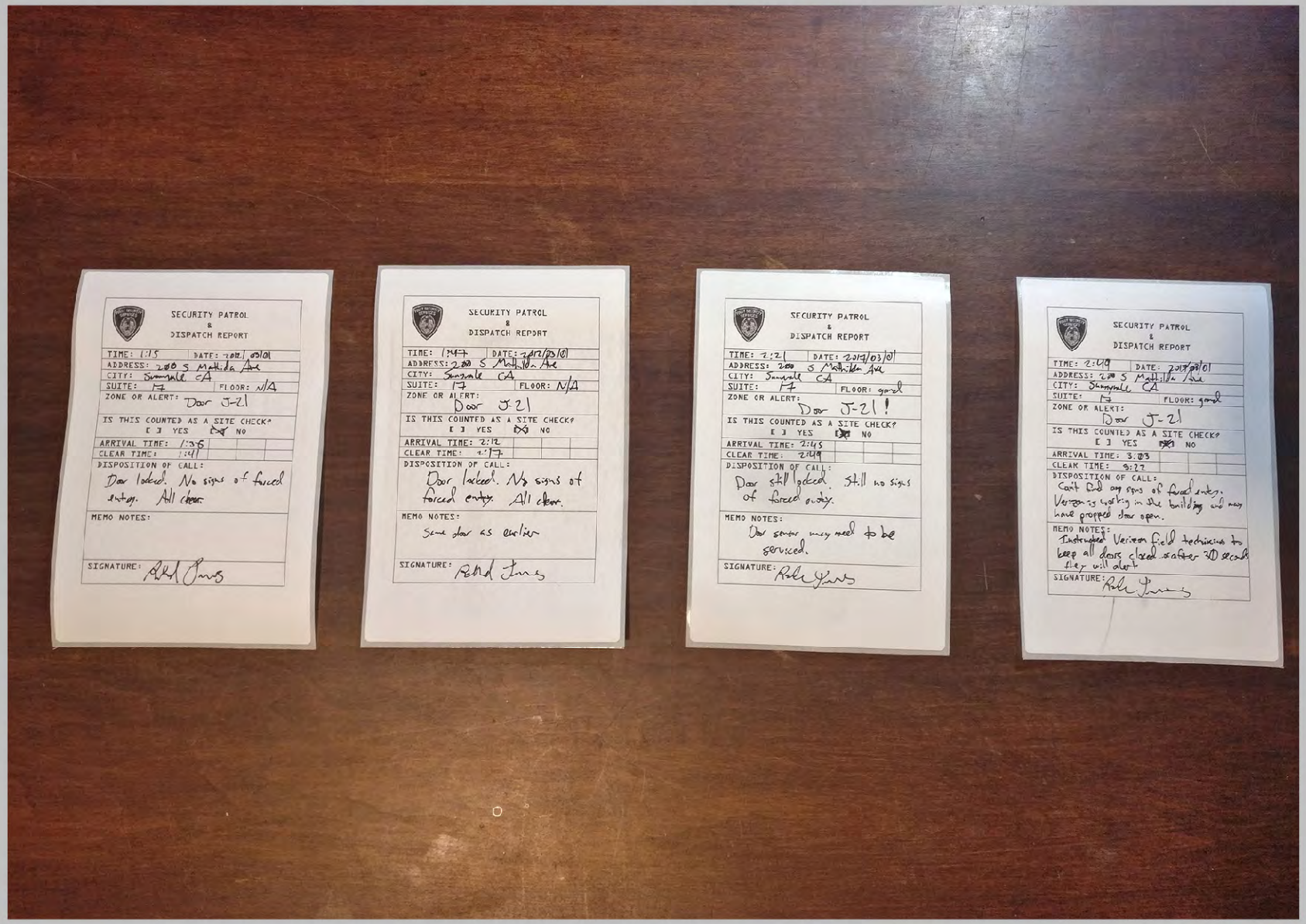
SECURITY PATROL & DISPATCH REPORT

TIME: 1447 DATE: 2012/05/01
ADDRESS: 200 S Mathilda Ave
CITY: Sunnyvale CA
SUITE: 1-4 FLOOR: N/A
ZONE OR ALERT: Door J-21
IS THIS COUNTED AS A SITE CHECK? ☐ YES ☒ NO
ARRIVAL TIME: 2:12
CLEAR TIME: 2:17
DISPOSITION OF CALL: Door locked. No signs of forced entry. All clear.
MEMO NOTES: Same door as earlier
SIGNATURE: Rob Jones

SECURITY PATROL & DISPATCH REPORT

TIME: 2:21 DATE: 2013/03/01
ADDRESS: 200 S Mathilda Ave
CITY: Sunnyvale CA
SUITE: 1-4 FLOOR: ground
ZONE OR ALERT: Door J-21!
IS THIS COUNTED AS A SITE CHECK? ☐ YES ☒ NO
ARRIVAL TIME: 2:43
CLEAR TIME: 2:49
DISPOSITION OF CALL: Door still locked. Still no signs of forced entry.
MEMO NOTES: Door sensor may need to be serviced.
SIGNATURE: Rob Jones

The Client Actually Pulled the Dispatch Tickets



SECURITY PATROL & DISPATCH REPORT

TIME: 1:15 DATE: 2017/03/01
ADDRESS: 200 S Mathilda Ave
CITY: Sunnyvale CA
SUITE: M FLOOR: N/A
ZONE OR ALERT: Door J-21
IS THIS COUNTED AS A SITE CHECK? [ ] YES [X] NO
ARRIVAL TIME: 1:36
CLEAR TIME: 1:41
DISPOSITION OF CALL: Door locked. No signs of forced entry. All clear.
MEMO NOTES:
SIGNATURE: Robert Jones

SECURITY PATROL & DISPATCH REPORT

TIME: 1:47 DATE: 2017/03/01
ADDRESS: 200 S Mathilda Ave
CITY: Sunnyvale CA
SUITE: M FLOOR: N/A
ZONE OR ALERT: Door J-21
IS THIS COUNTED AS A SITE CHECK? [ ] YES [X] NO
ARRIVAL TIME: 2:12
CLEAR TIME: 2:17
DISPOSITION OF CALL: Door locked. No signs of forced entry. All clear.
MEMO NOTES: Same door as earlier
SIGNATURE: Robert Jones

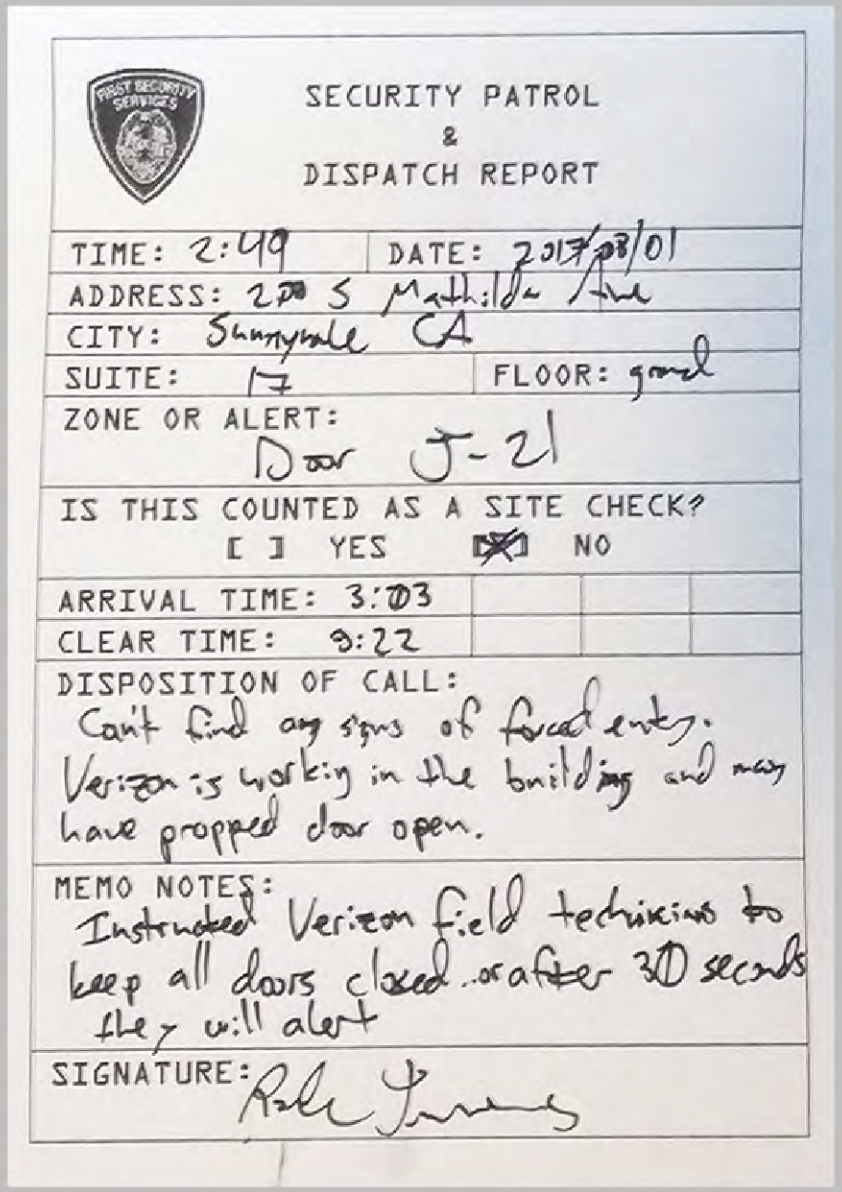
SECURITY PATROL & DISPATCH REPORT

TIME: 2:21 DATE: 2017/03/01
ADDRESS: 200 S Mathilda Ave
CITY: Sunnyvale CA
SUITE: M FLOOR: ground
ZONE OR ALERT: Door J-21!
IS THIS COUNTED AS A SITE CHECK? [ ] YES [X] NO
ARRIVAL TIME: 2:45
CLEAR TIME: 2:49
DISPOSITION OF CALL: Door still locked. Still no signs of forced entry.
MEMO NOTES: Door sensor may need to be serviced.
SIGNATURE: Robert Jones

SECURITY PATROL & DISPATCH REPORT

TIME: 2:49 DATE: 2017/03/01
ADDRESS: 200 S Mathilda Ave
CITY: Sunnyvale CA
SUITE: M FLOOR: ground
ZONE OR ALERT: Door J-21
IS THIS COUNTED AS A SITE CHECK? [ ] YES [X] NO
ARRIVAL TIME: 3:03
CLEAR TIME: 3:27
DISPOSITION OF CALL: Can't find any signs of forced entry. Verizon is working in the building and may have propped door open.
MEMO NOTES: Instructed Verizon field technicians to keep all doors closed & after 20 seconds they will alert
SIGNATURE: Robert Jones

The Client Actually Pulled the Dispatch Tickets



SECURITY PATROL
&
DISPATCH REPORT

TIME: 2:49 DATE: 2017/03/01

ADDRESS: 2[illegible]5 Mathilda Ave

CITY: Sunnyvale CA

SUITE: 17 FLOOR: ground

ZONE OR ALERT: Door J-21

IS THIS COUNTED AS A SITE CHECK?
[ ] YES [X] NO

ARRIVAL TIME: 3:03

CLEAR TIME: 3:22

DISPOSITION OF CALL:
Can't find any signs of forced entry. Verizon is working in the building and may have propped door open.

MEMO NOTES:
Instructed Verizon field technicians to keep all doors closed...or after 30 seconds they will alert

SIGNATURE: [signature]

Who Wouldn't Trust Us?



Story Number Three: The Armed Guards



A Lot of the Time, Guards are Rather Untrained



A Lot of the Time, Guards are Rather Untrained



Armed Guards are Usually More On the Ball



We Wanted to Grab Credentials



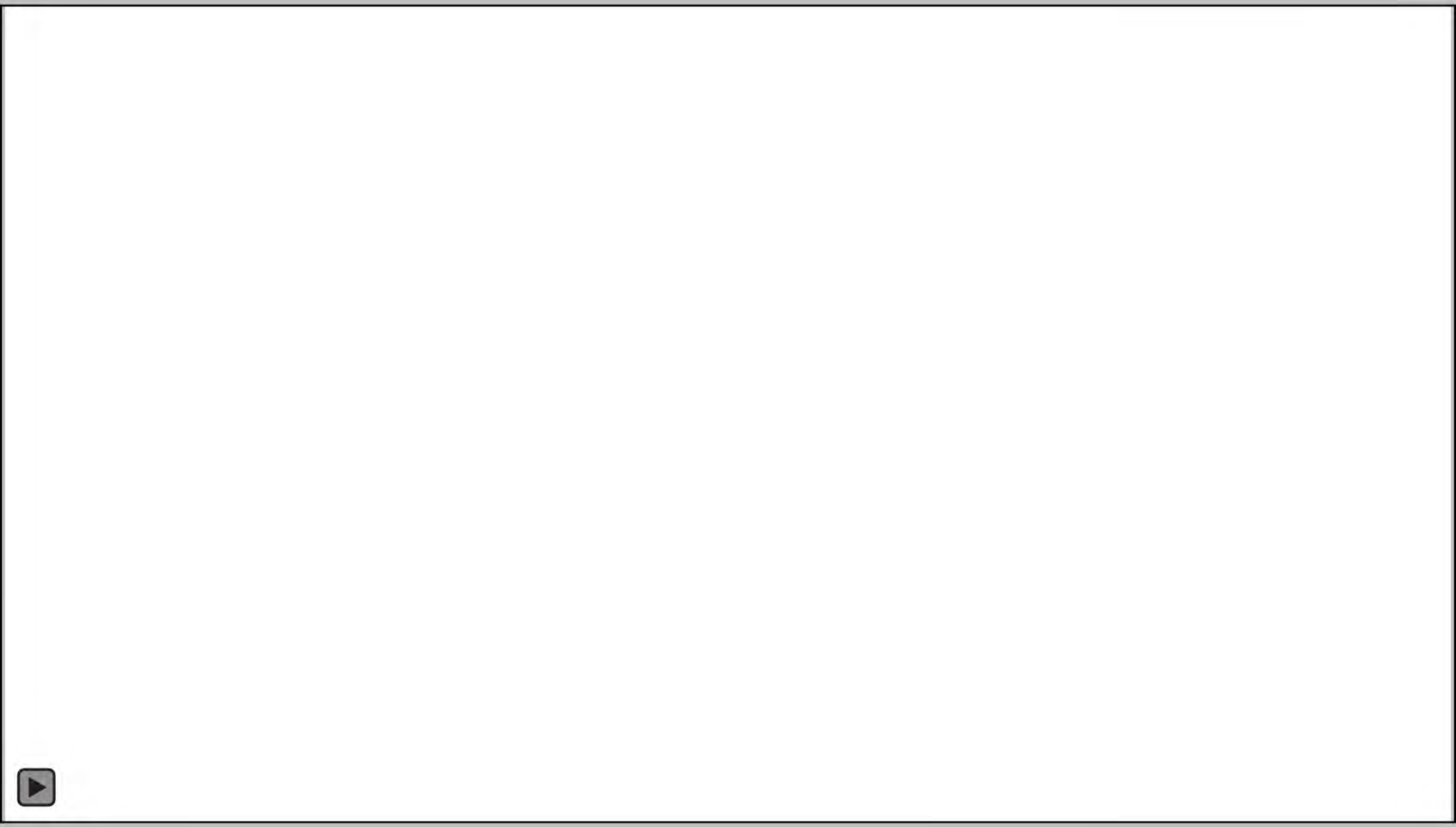
We Wanted to Grab Credentials



We Wanted to Grab Credentials



We Wanted to Grab Credentials



We Wanted to Grab Credentials



What Do Many Armed Guards Want To Be?



What Do Many Armed Guards Want To Be?



Send in a Cop!



Meanwhile, Babak is Still Out in the Car



Rob Keeps Trying, The Guards Keep Blading



Time to Wrap it Up and Say Goodbye



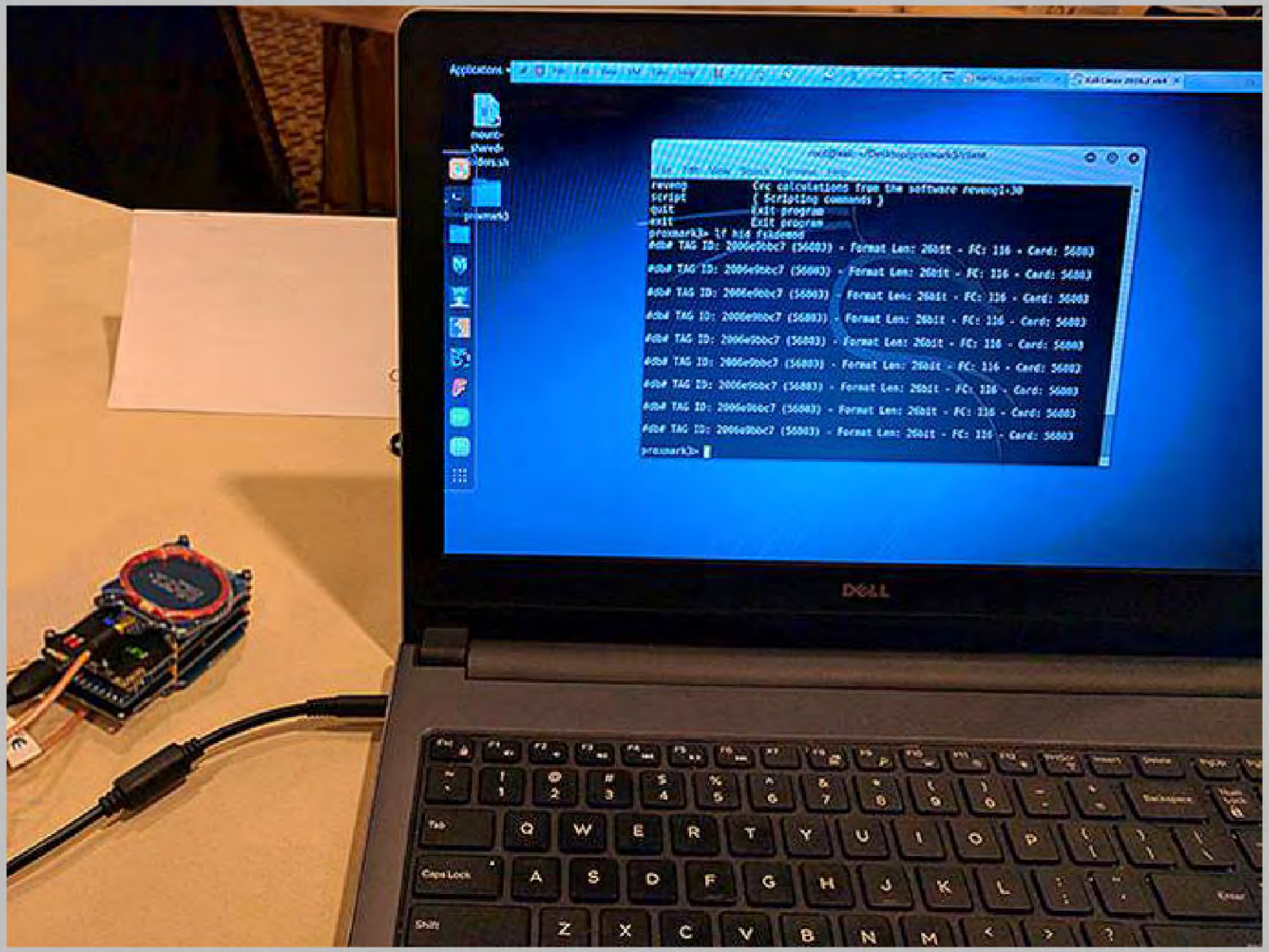
Surprise Hug!



Robert Comes Back to the Car



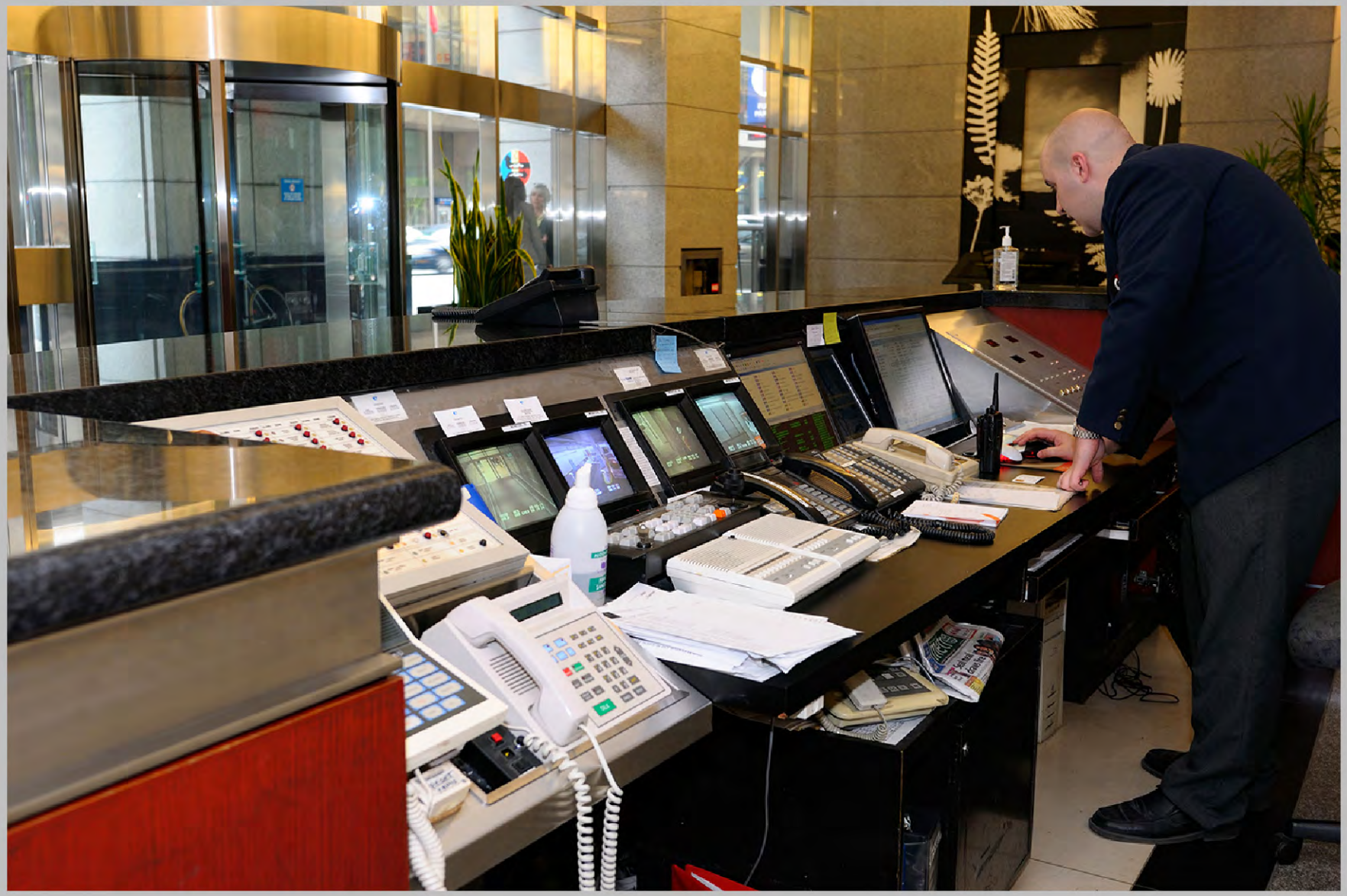
We Checked the Logs



Now Whose Permissions Did We Have?



We Came Back on Their Next Shift



We Overrode an Elevator Restriction



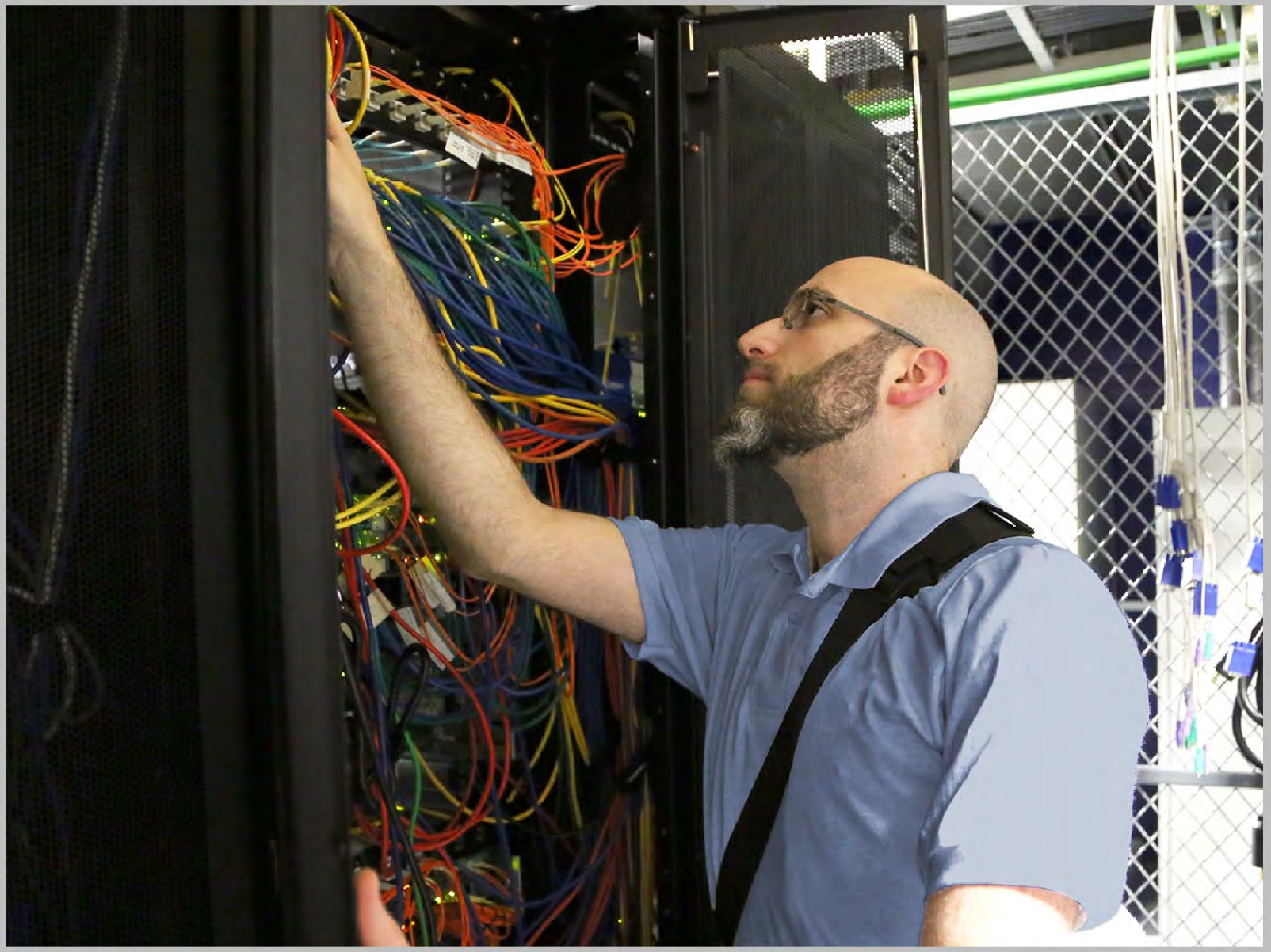
We Picked Open a Door Lock



We Picked Open a Door Lock



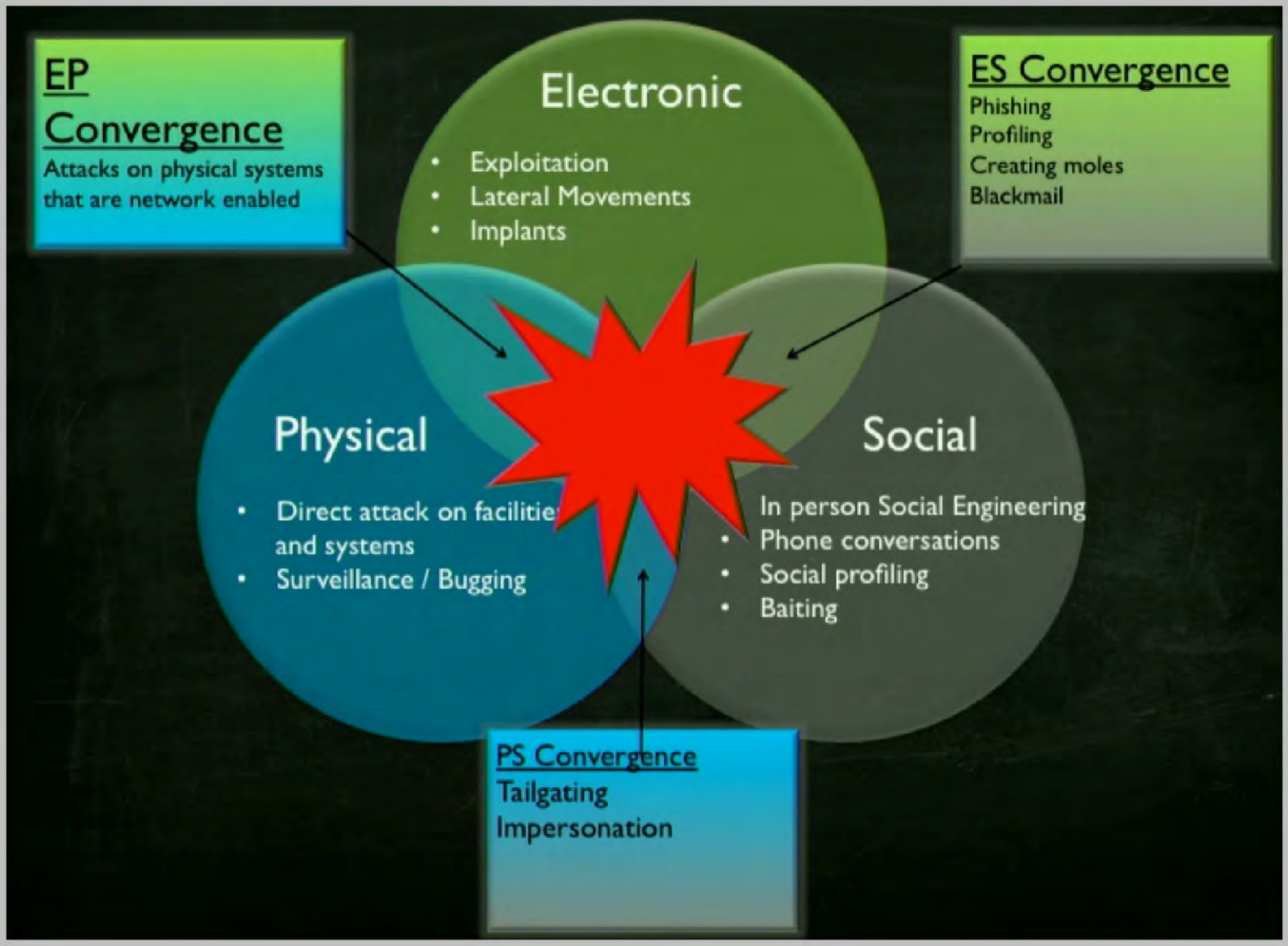
And We Laid Hands Upon Their Server Racks



Which Scenario Was Red Teaming?



Some People Apply the “All Surfaces” Litmus Test



Story Number One: Elevator Repair



I Walked Into A Building and Hid



I Encountered Security



I Offered My Cover Identity and Showcased Skills

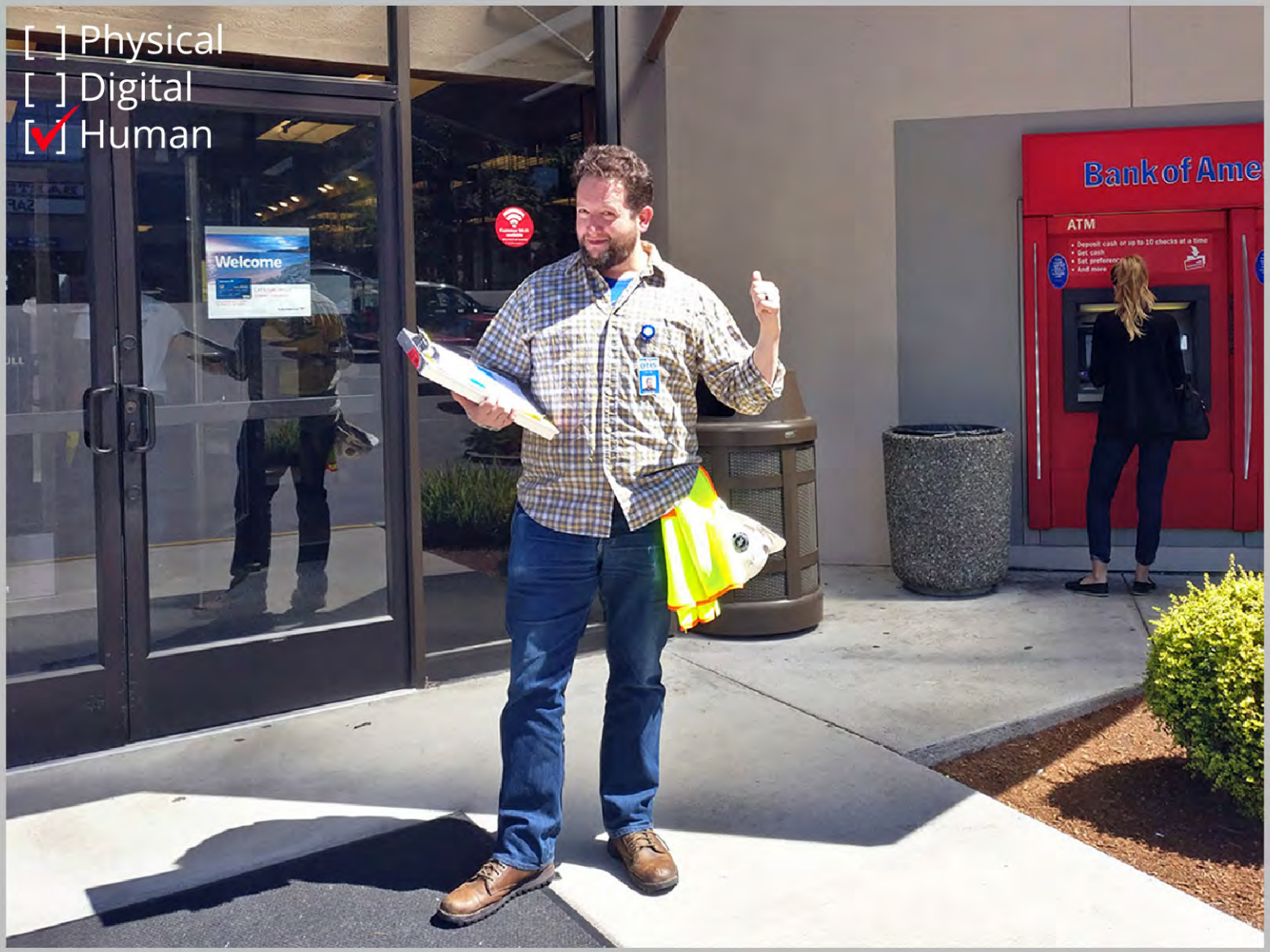
[ ] Physical
[ ] Digital
[✓] Human



I Was Granted Escorted Access Everywhere



I'd Call This Social Engineering



Was This a Red Team Engagement?

[ ] Physical
[ ] Digital
[✓] Human





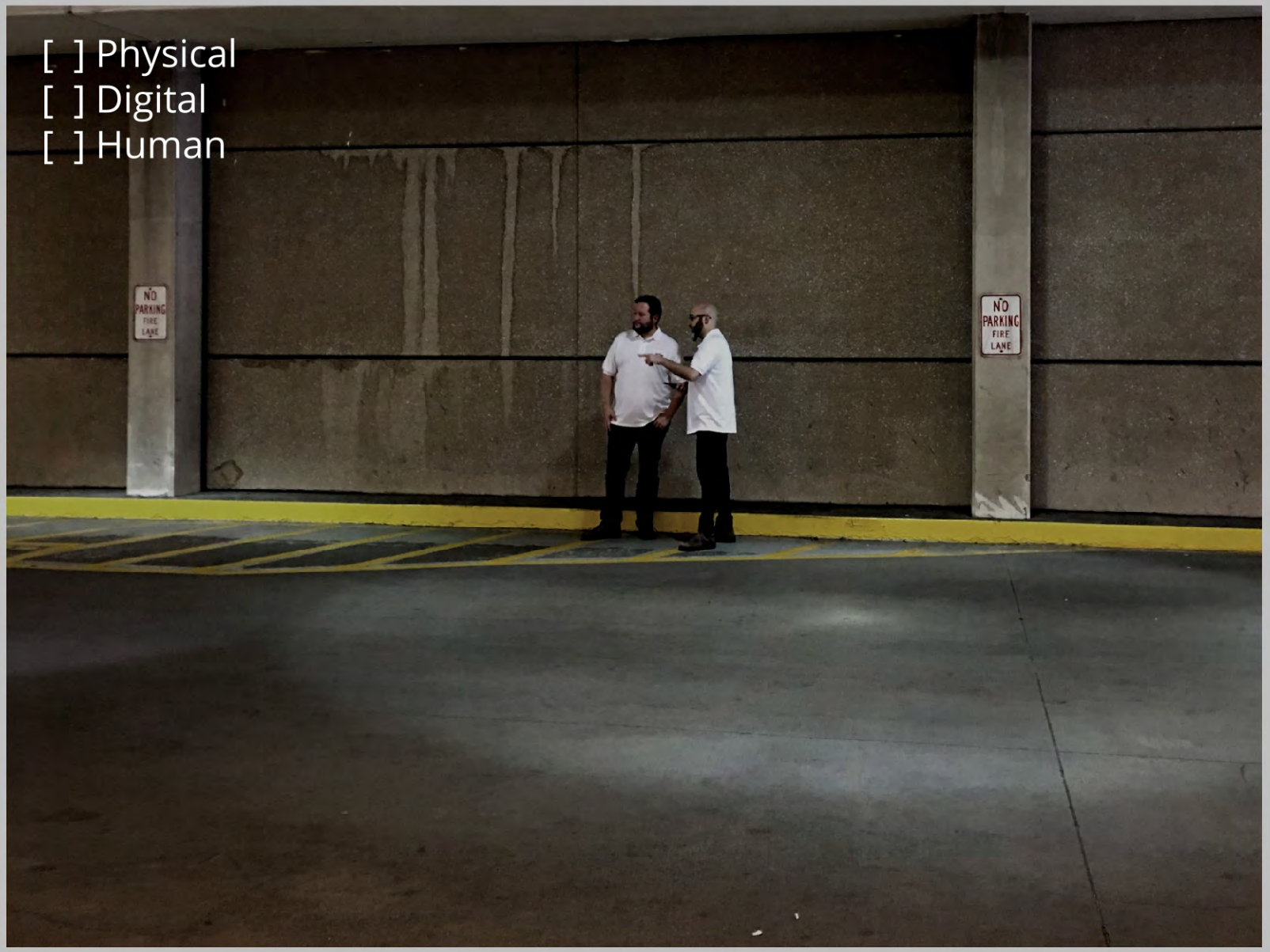
Nooooooo,

Noooooooooo...

Story Number Two: The Cable Technicians



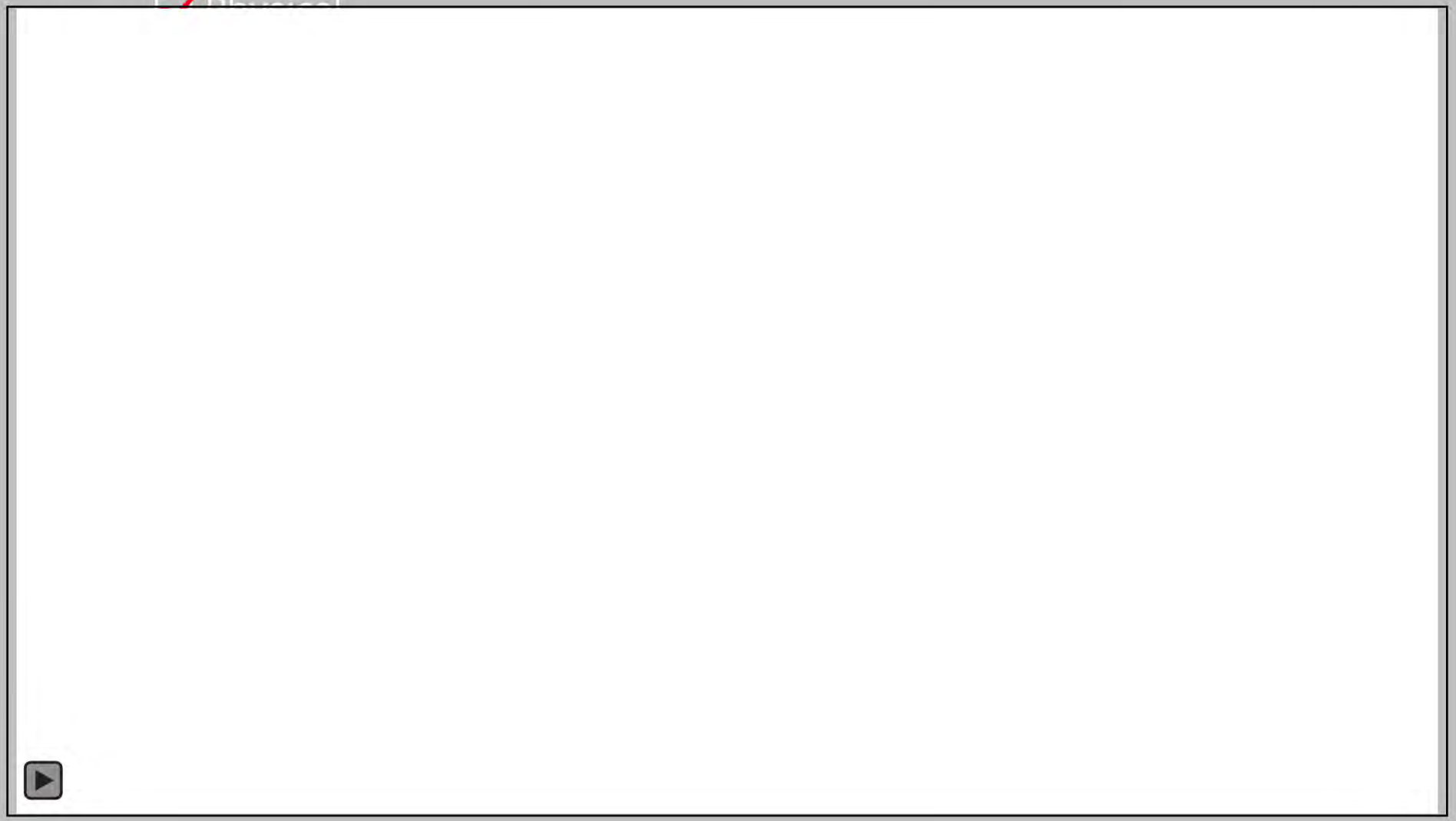
We Spotted a Guard



We Befriended a Guard



We Bypassed a Door Lock

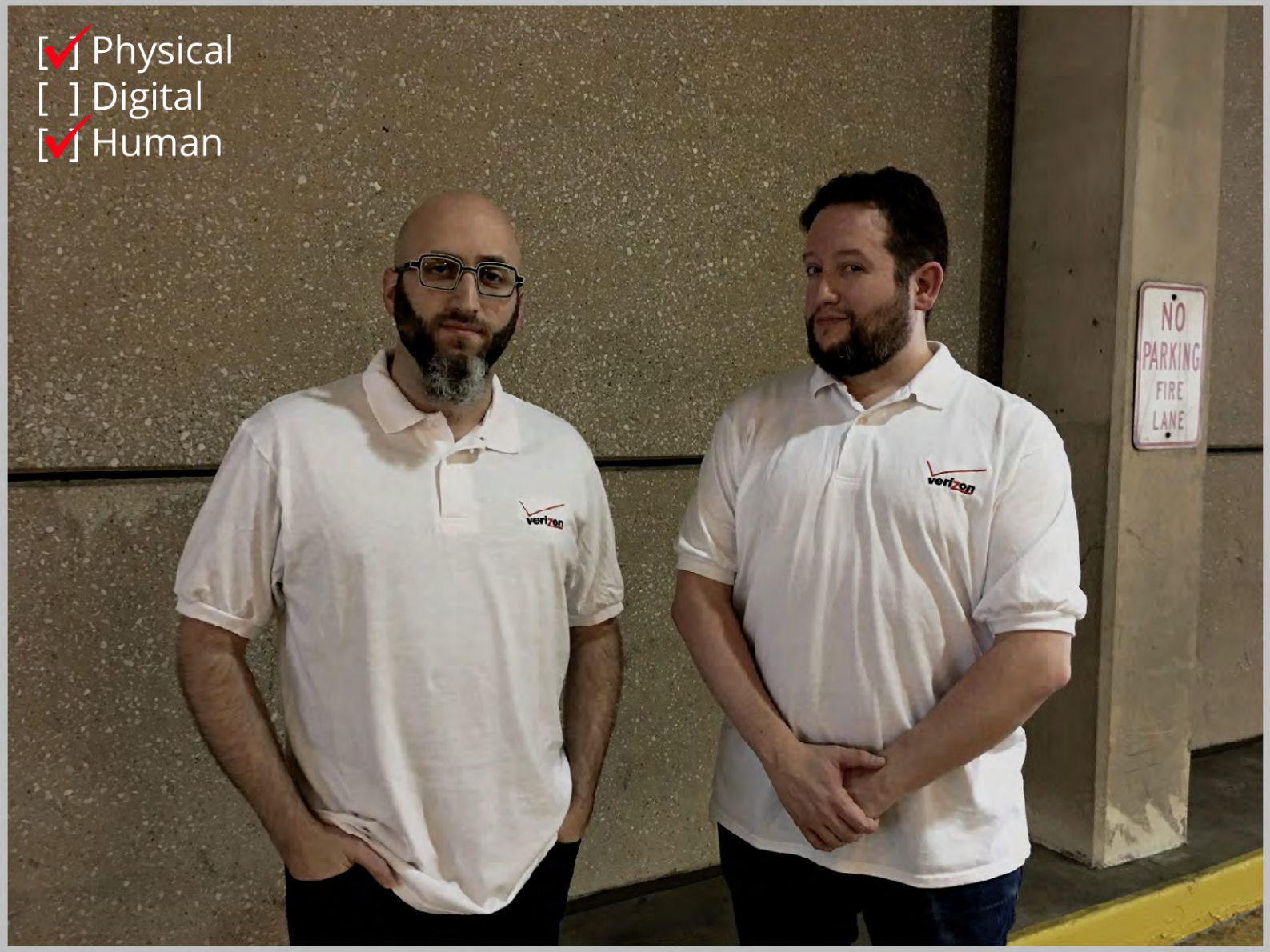


We Bypassed Another Door

[✓] Physical
[ ] Digital
[✓] Human



A Blended Attack... On Two Surfaces



Was This a Red Team Engagement?




HOW ABOUT NO?

Story Number Three: The Armed Guards



We Prepared a HuntPad



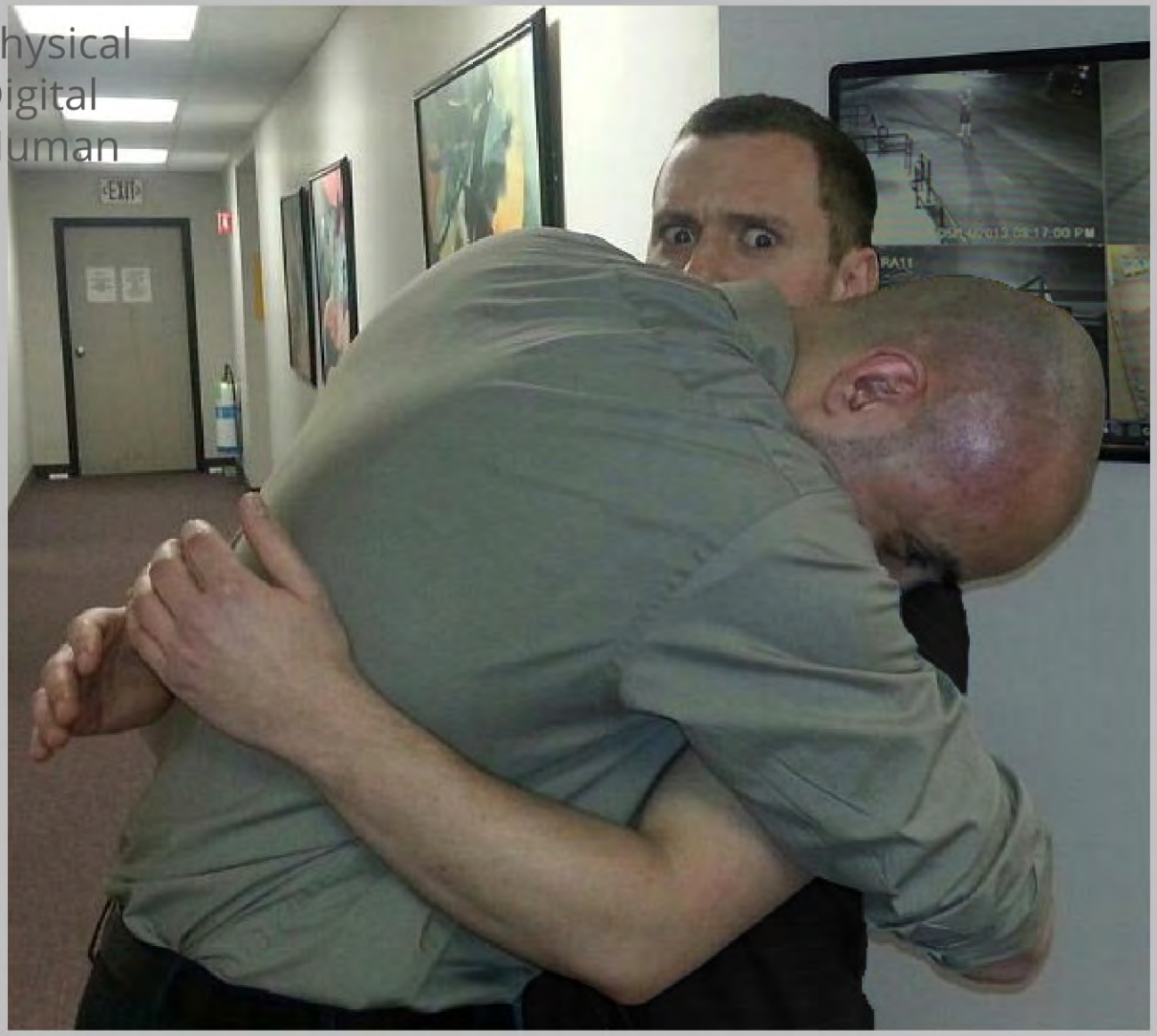
We Established Rapport

[ ] Physical
[ ] Digital
[✓] Human

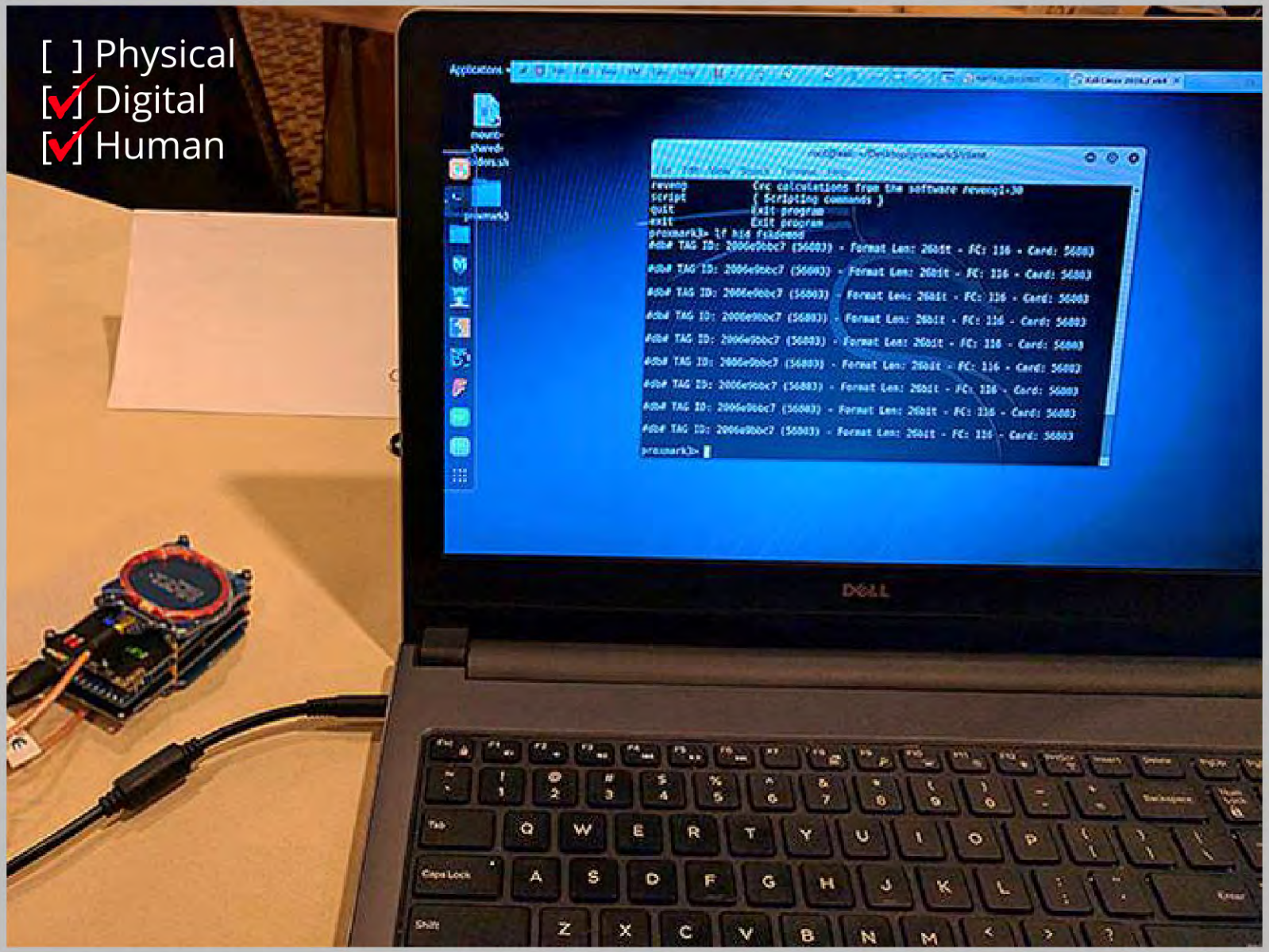


We Grabbed RFID Card Data

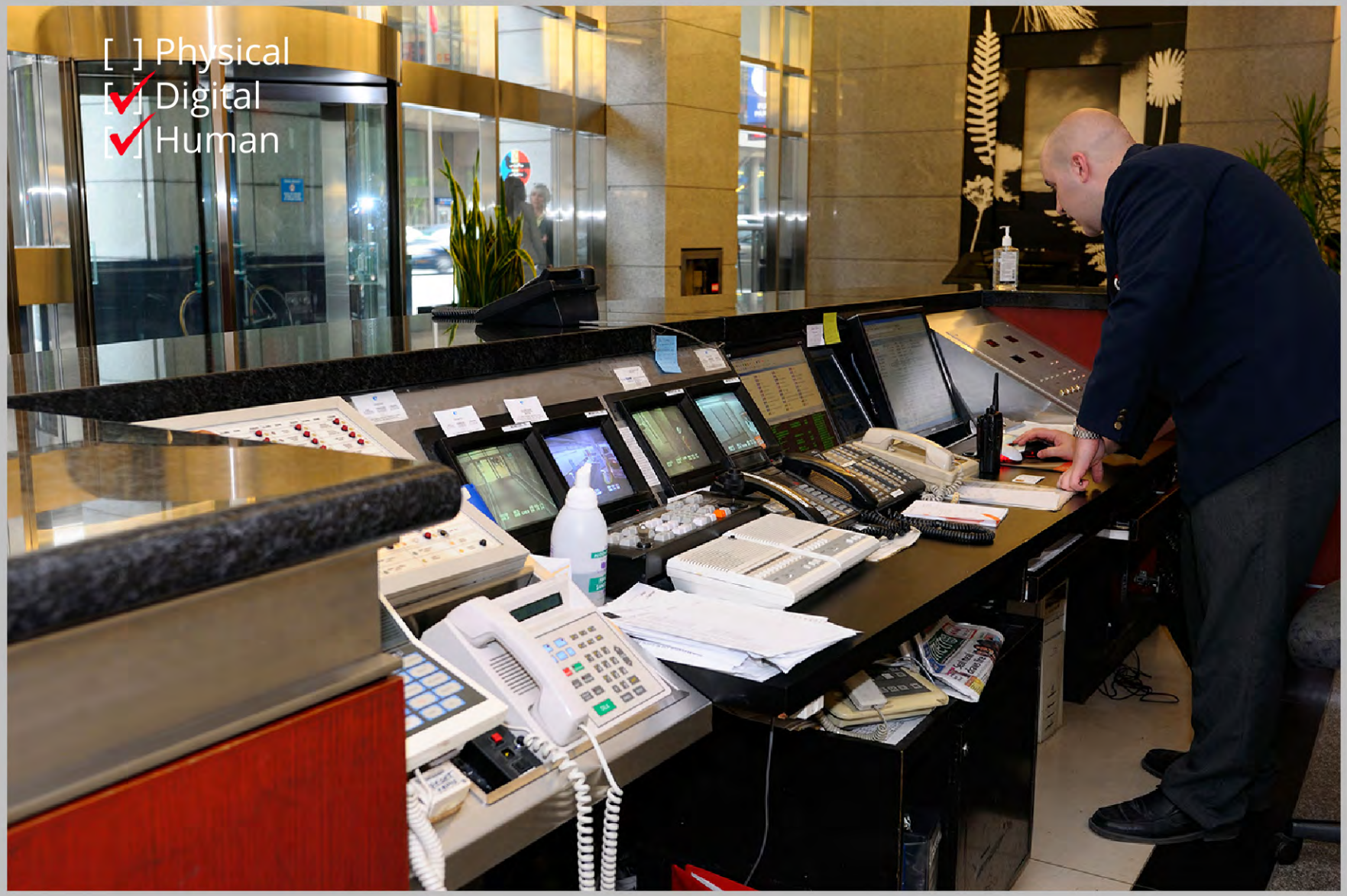
[ ] Physical
[✓] Digital
[✓] Human



We Wrote New Badge Data



We Bluffed Past More Guards



We Overrode an Elevator



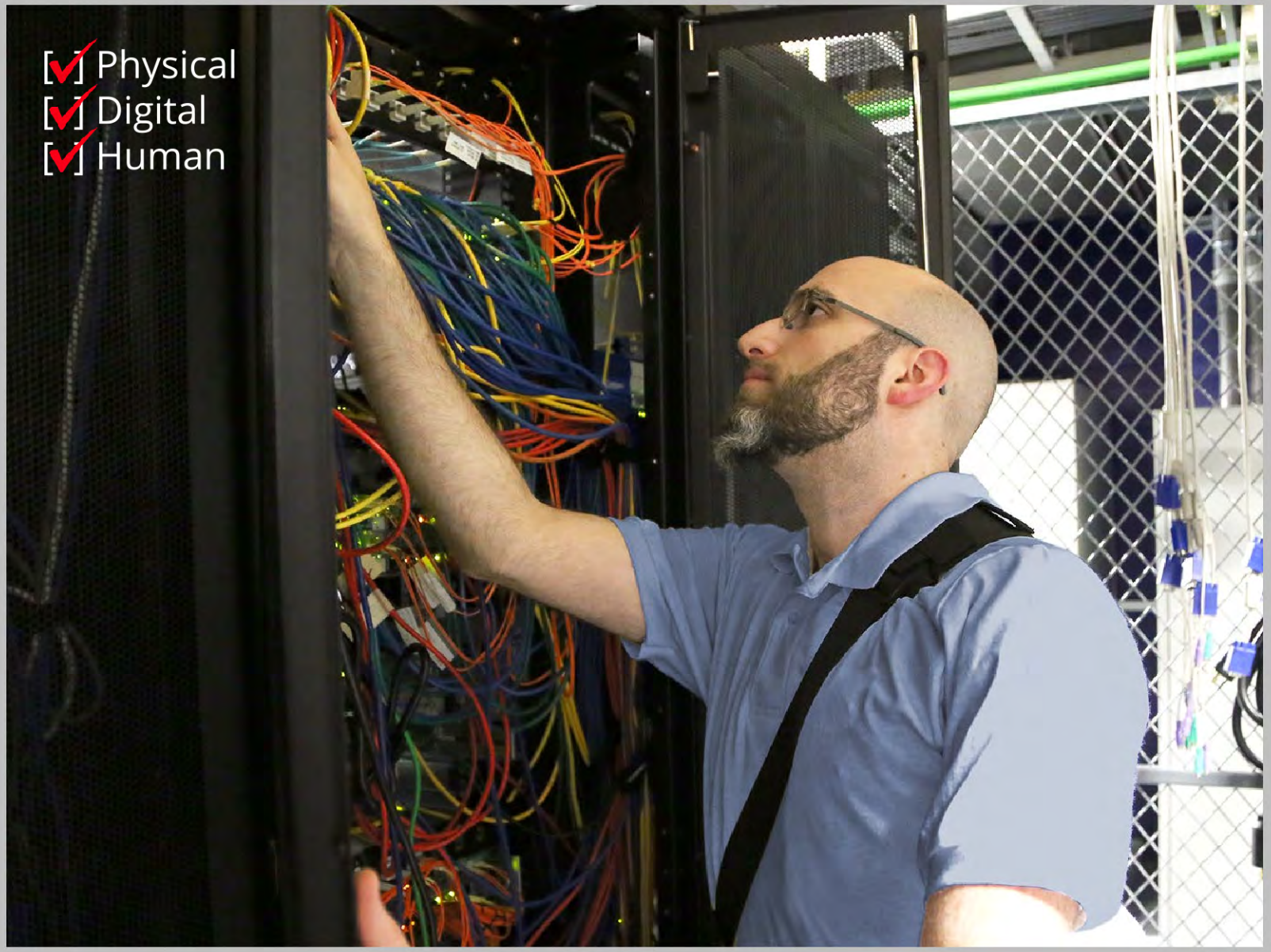
We Picked Locks



We Entered the Server Room

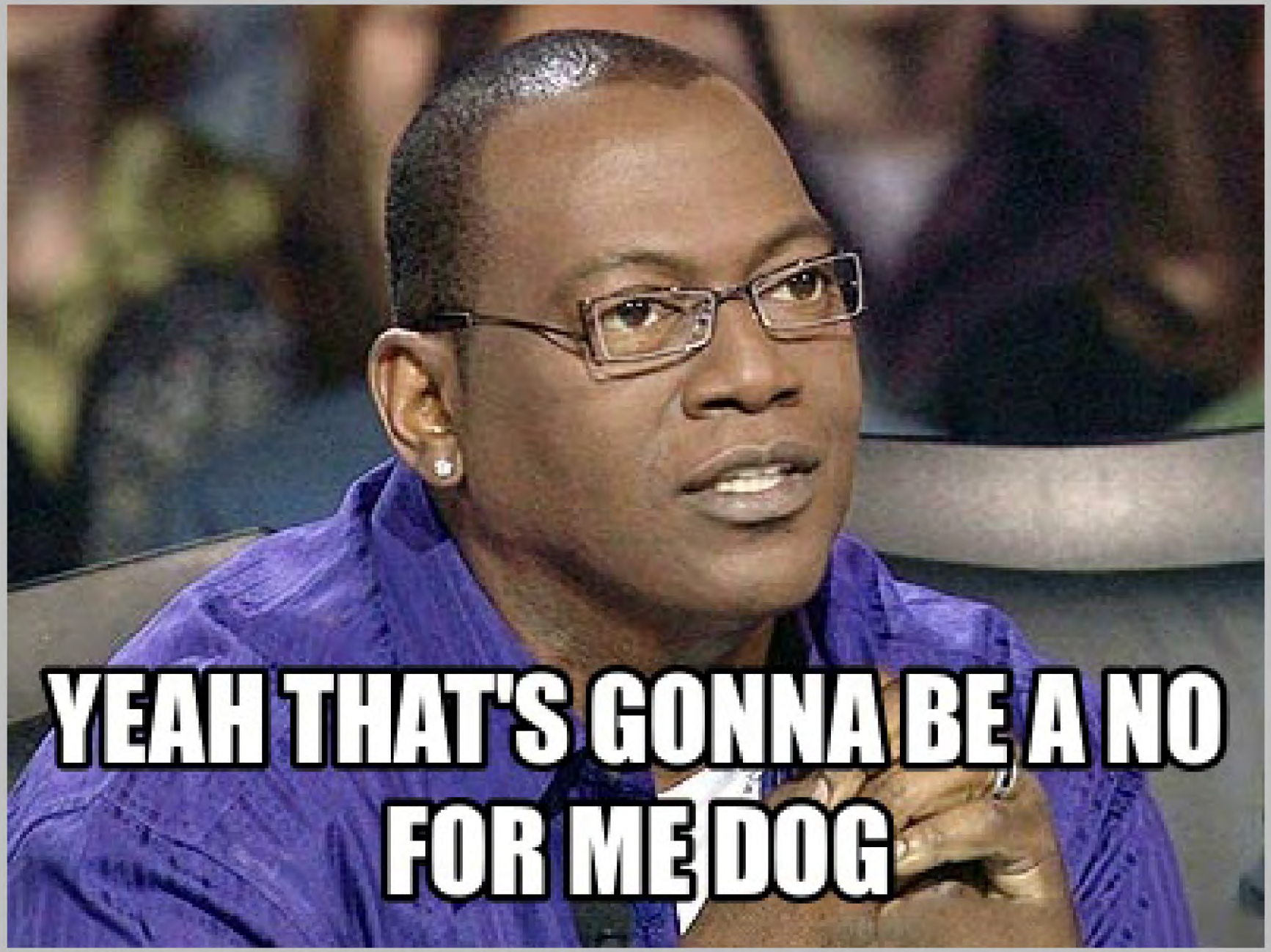


We Feigned Network Attacks



Was This a Red Team Engagement?




YEAH THAT'S GONNA BE A NO
FOR ME, DOG

Ahhhh... The Question of How Much Scope







Ahhhh... The Question of How Much Scope



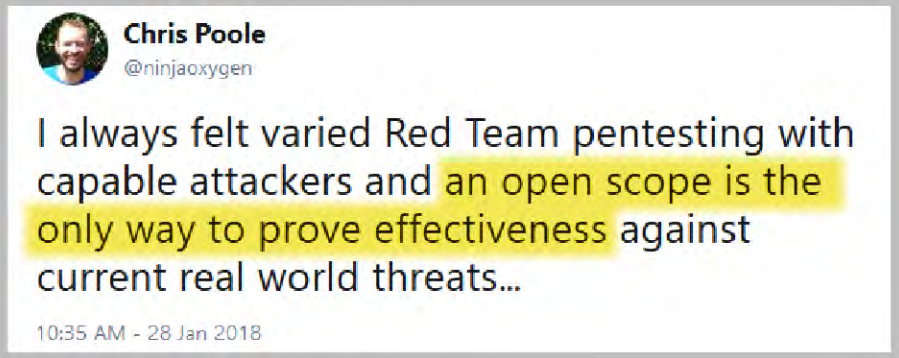


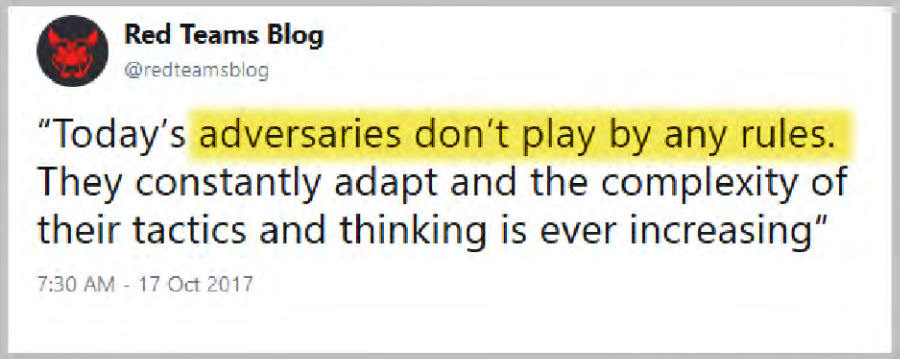


Is *That* What Makes Something a Red Team Engagement?

Ahhhh… The Question of How Much Scope



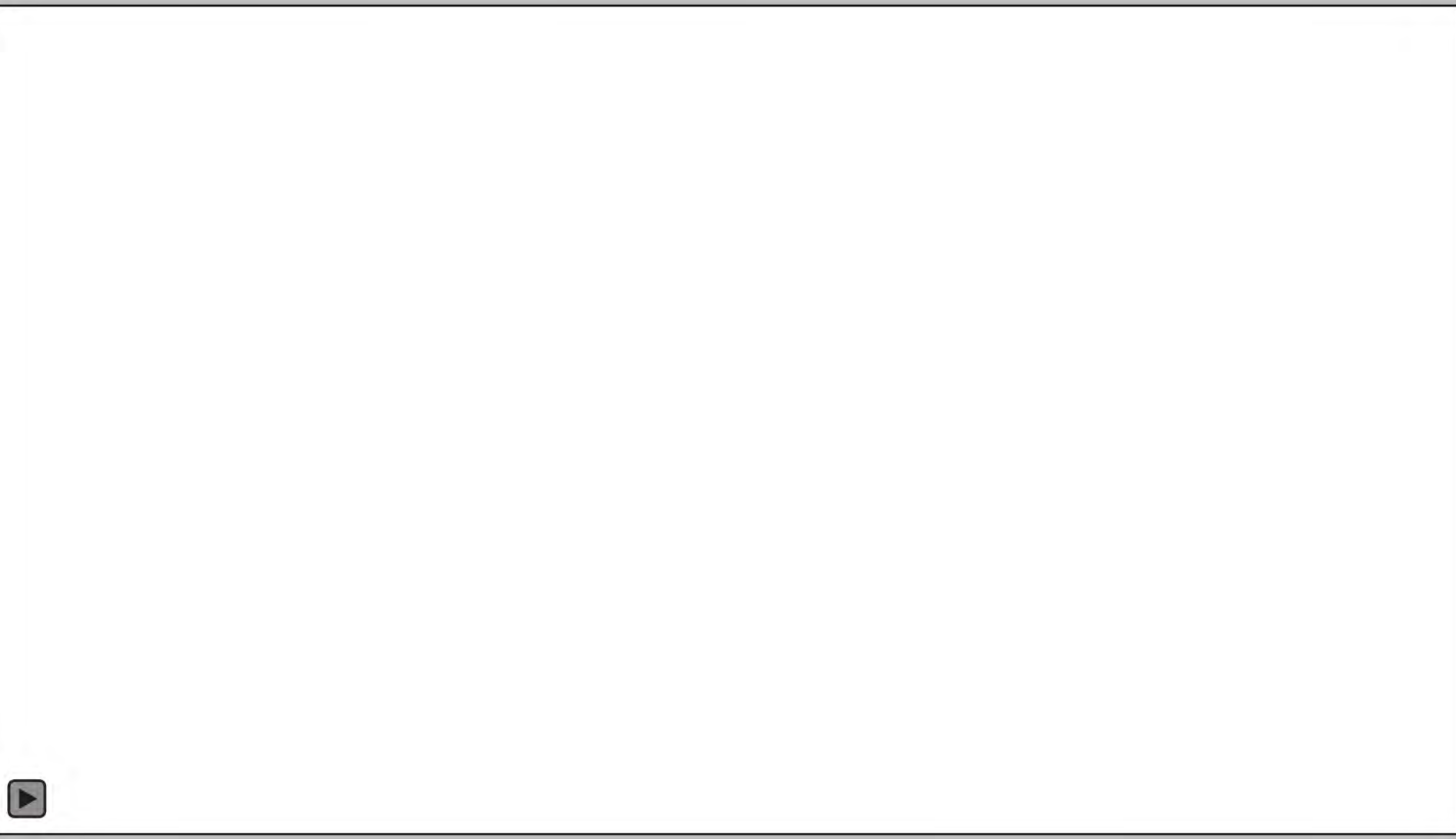




Scope *Absolutely* Has a Place in Red Teaming



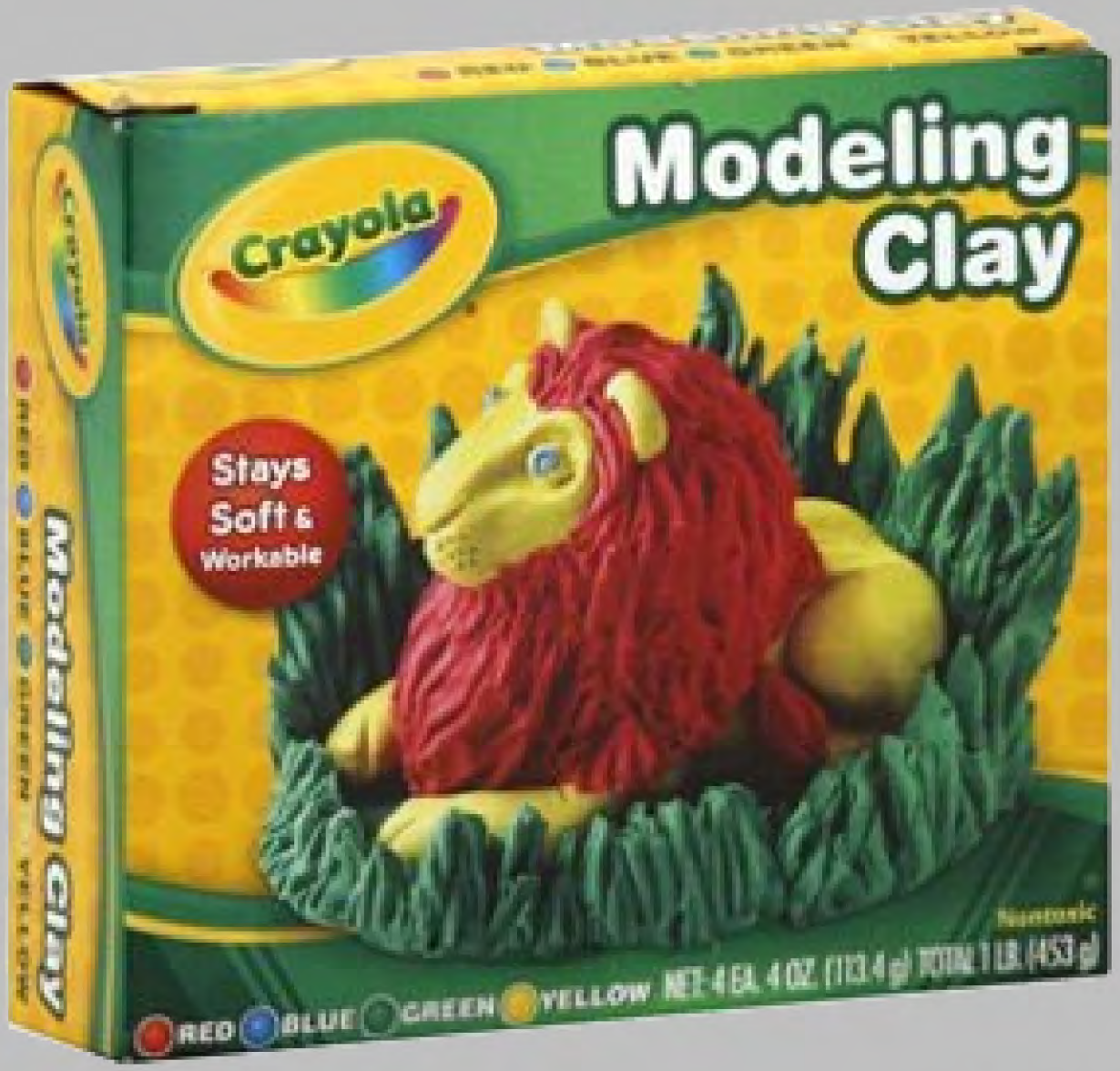
Scope *Absolutely* Has a Place in Red Teaming



Stop Thinking You Know More Than The Client



What Threat Are You Being Hired To Model?



What Do Clients Ultimately Care About?



What Do Clients Ultimately Care About?



Is a Given Vulnerability Going To...

1. Cost Me Money

2. Make Me Look Bad

“Cost Me Money”



“Make Me Look Bad”



(Many Times the Two are Related)



Your Job as a Red Teamer...



Your Job as a Red Teamer...

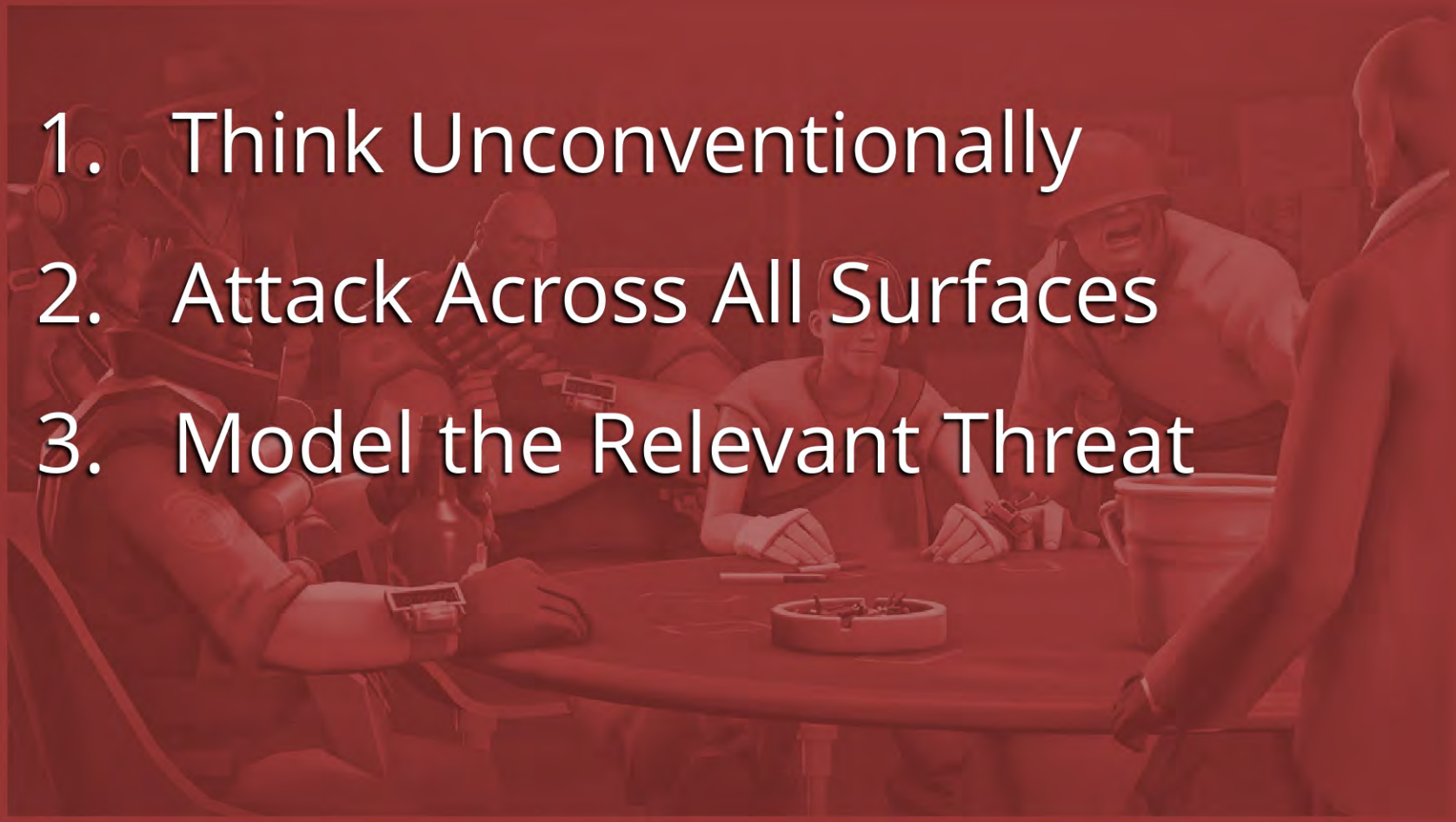


Your Job as a Red Teamer...



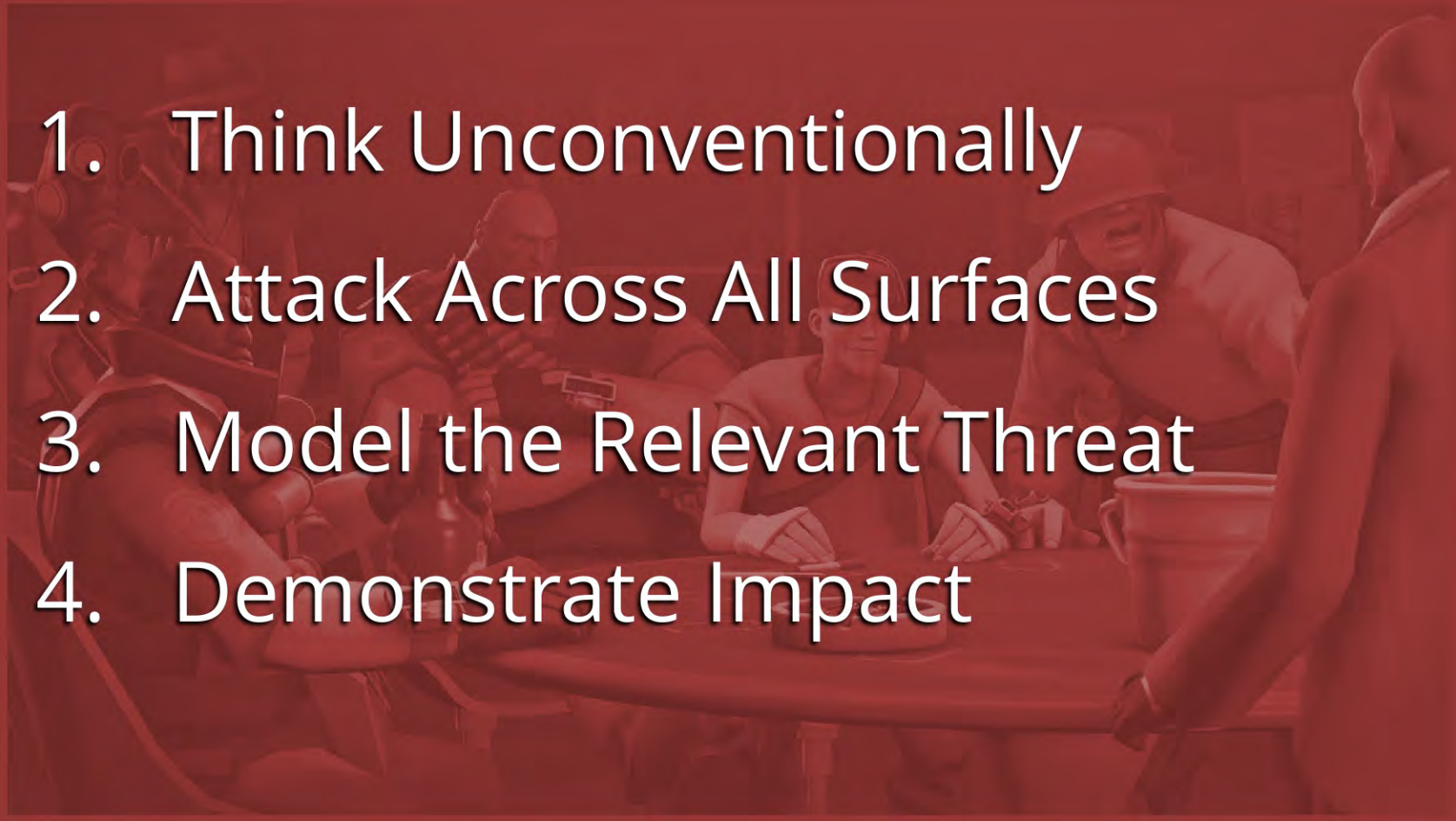
1. Think Unconventionally
2. Attack Across All Surfaces

Your Job as a Red Teamer...



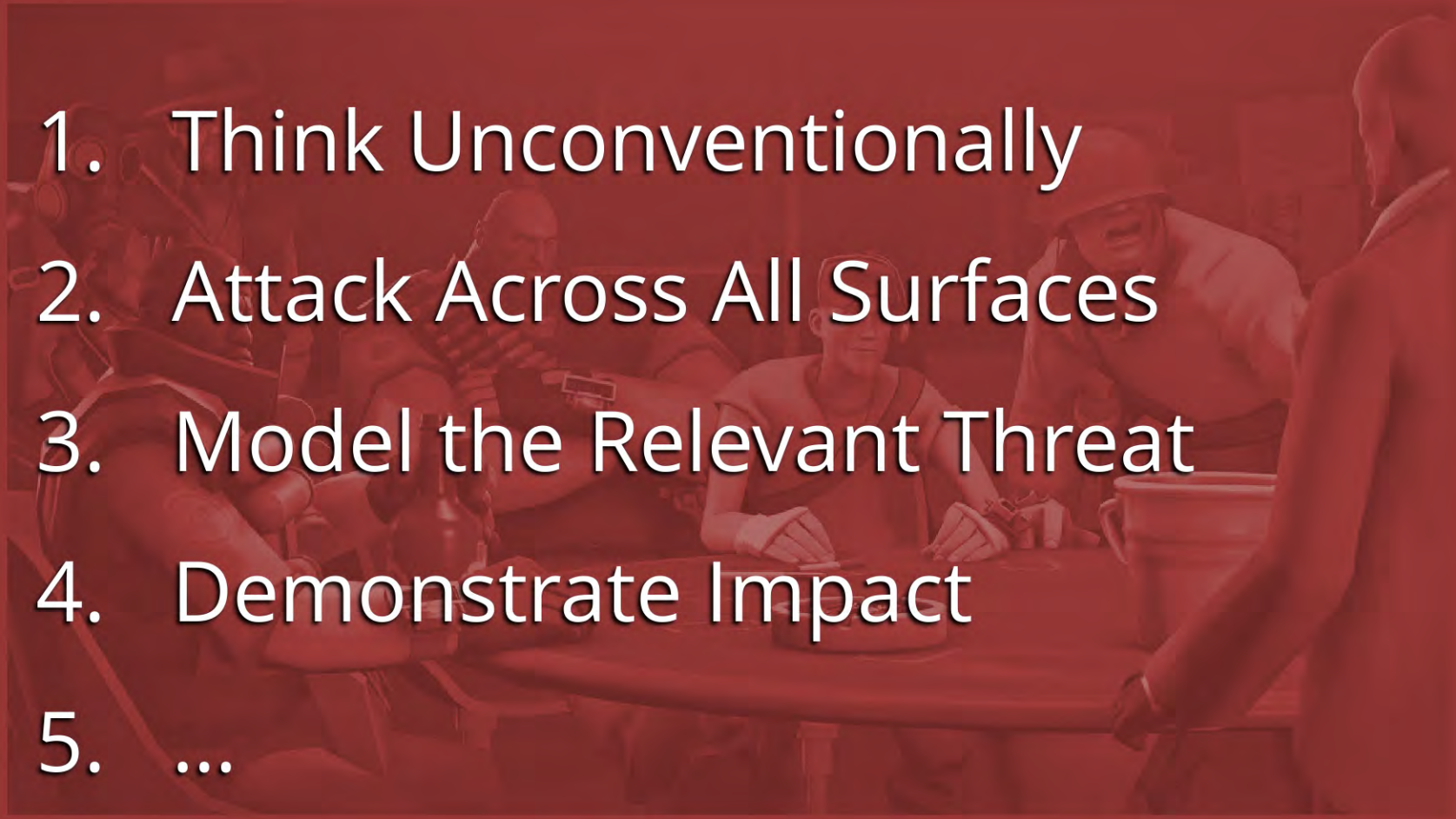
1. Think Unconventionally
2. Attack Across All Surfaces
3. Model the Relevant Threat

Your Job as a Red Teamer...



1. Think Unconventionally
2. Attack Across All Surfaces
3. Model the Relevant Threat
4. Demonstrate Impact

Your Job as a Red Teamer...



1. Think Unconventionally
2. Attack Across All Surfaces
3. Model the Relevant Threat
4. Demonstrate Impact
5. ...

What Else is Missing?









Your Job as a Red Teamer...

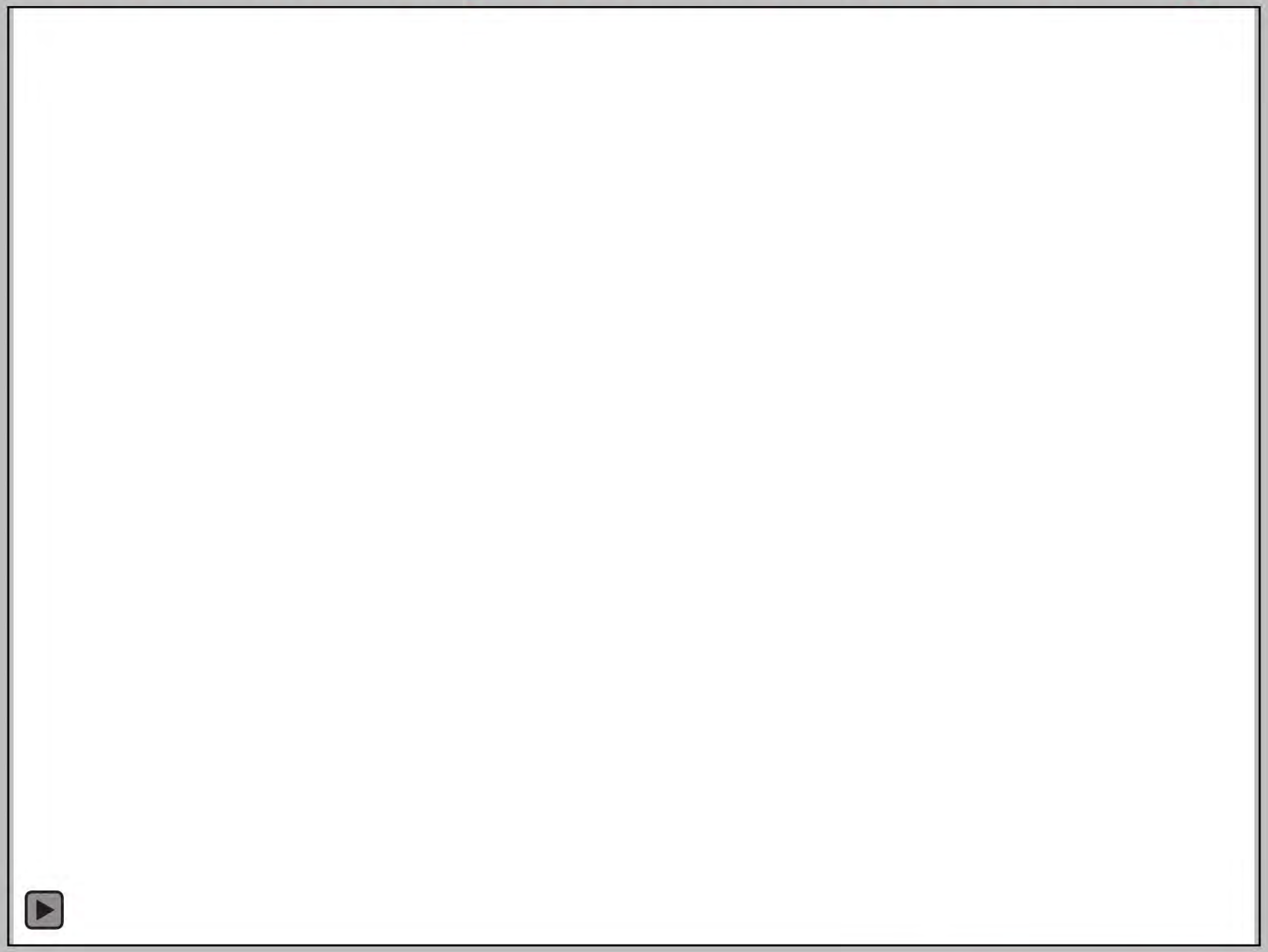


1. Think Unconventionally
2. Attack Across All Surfaces
3. Model the Relevant Threat
4. Demonstrate Impact
5. Interface with the Blue Team

I Love the Sparring Analogy



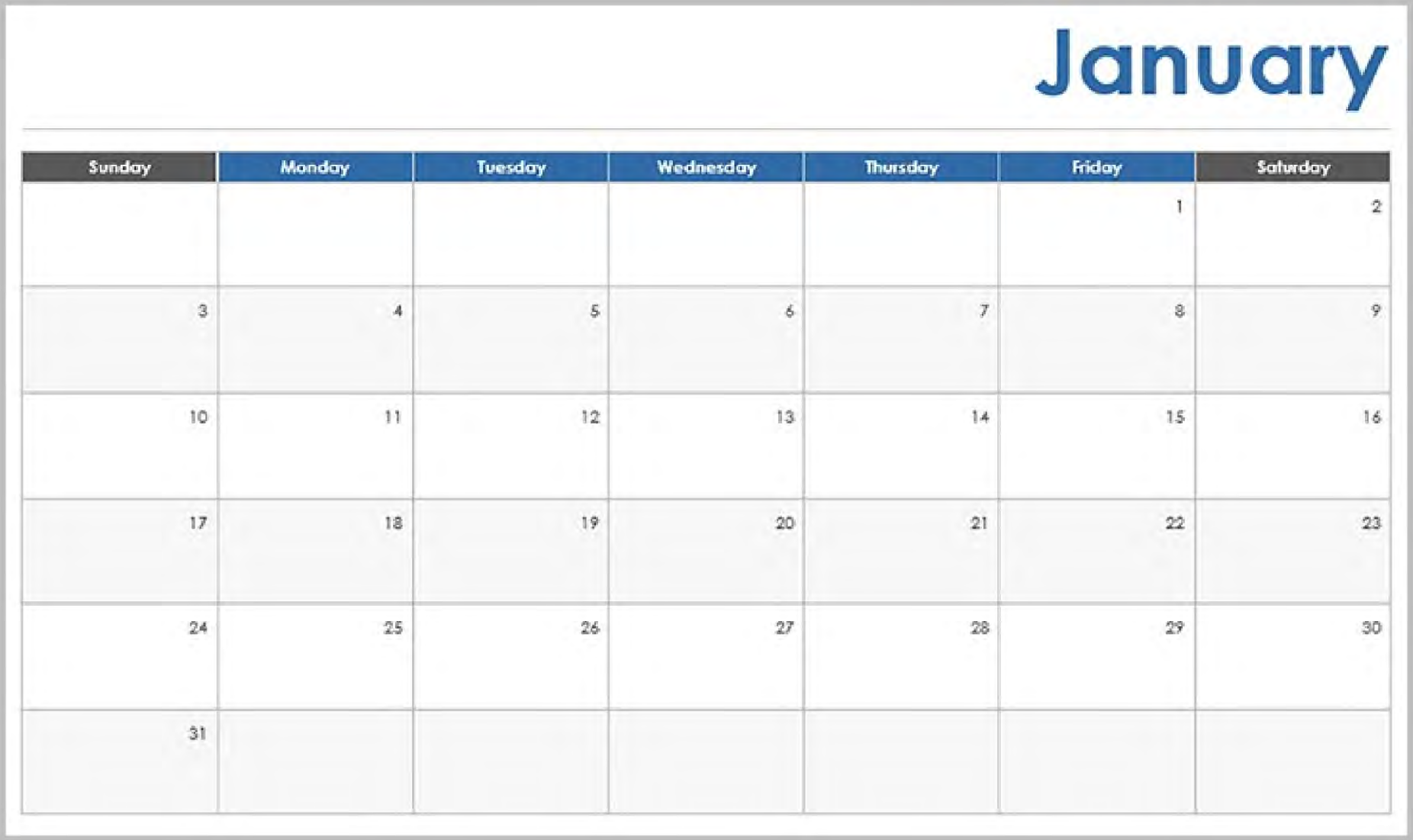
This is What Many Folk Think “Red Teaming” Is



This is What You Want to Eventually See



Build This Into Your Jobs



Build This Into Your Jobs



Build This Into Your Jobs

January

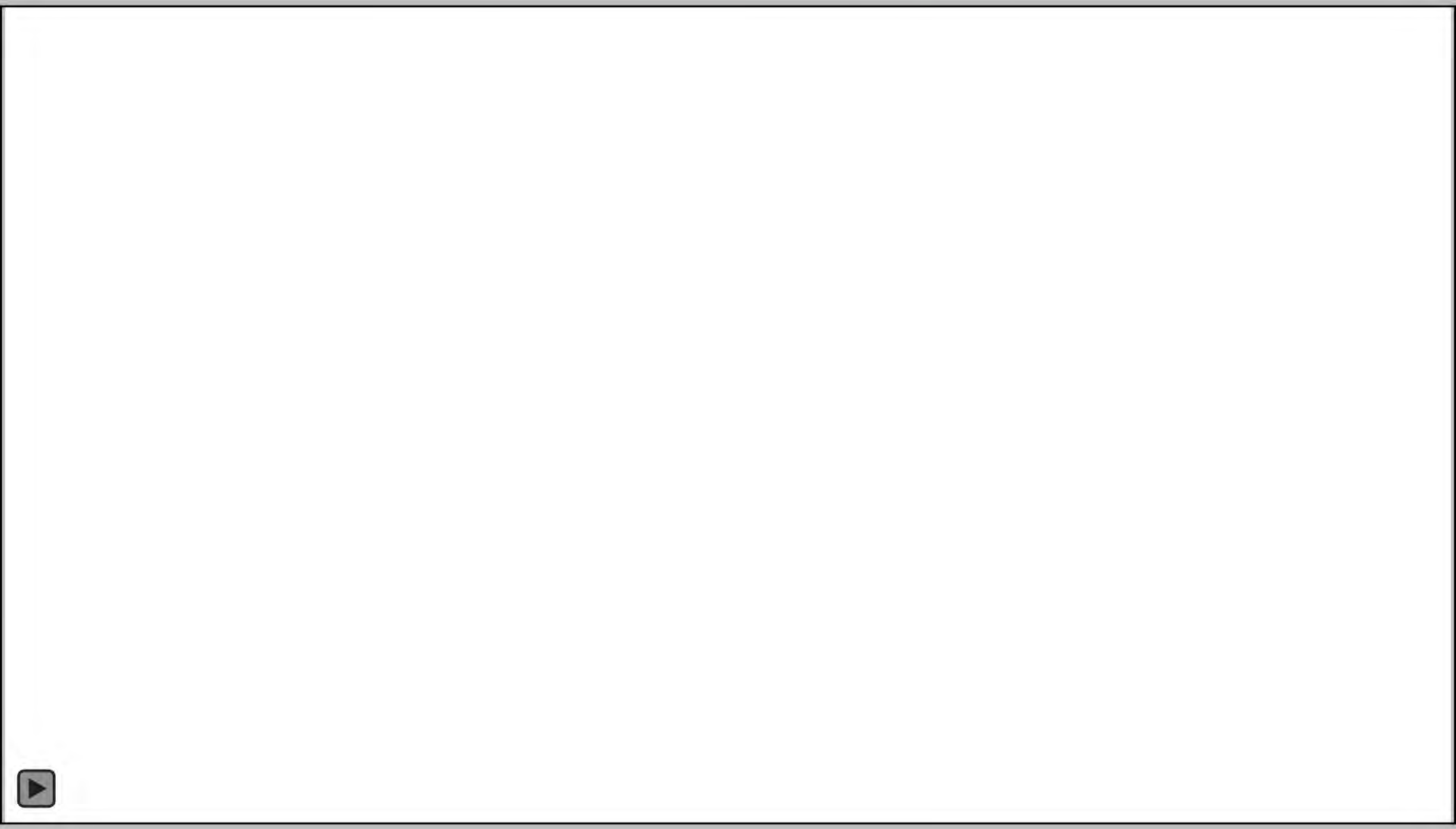
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	Last Job Ran Long	Laundry & Repack
Research the Target While Flying There	Wreck Shit	Wreck Shit	Wreck Shit	Hustle to Next Job	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Build This Into Your Jobs

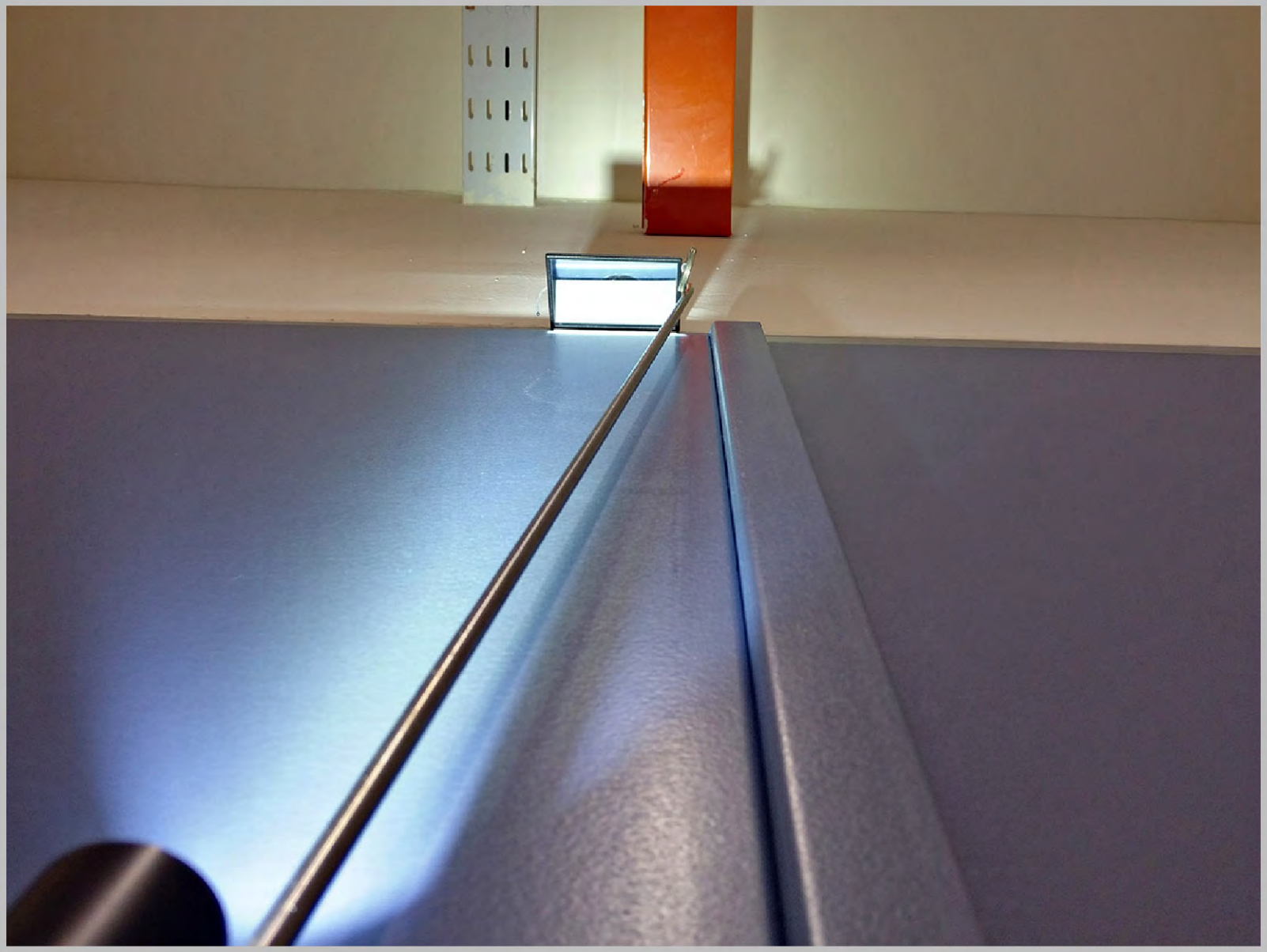
January

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	Recon	Recon	Plan & Prep
Achieve Objectives	Achieve Objectives	Achieve Objectives	Achieve Objectives	**After-Action Meetings**	**Practice w/ Blue Team**	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Real-World Examples



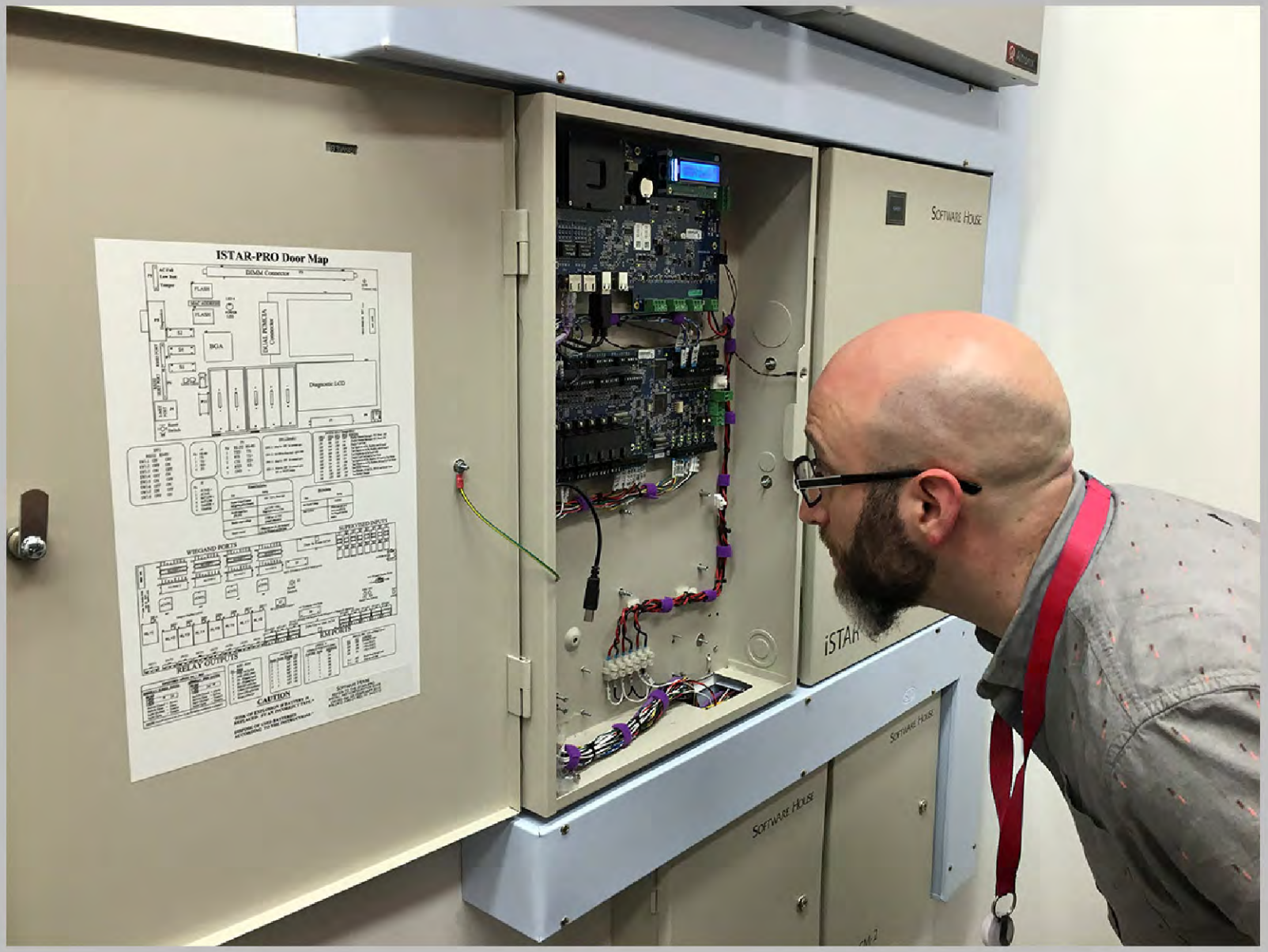
Real-World Examples



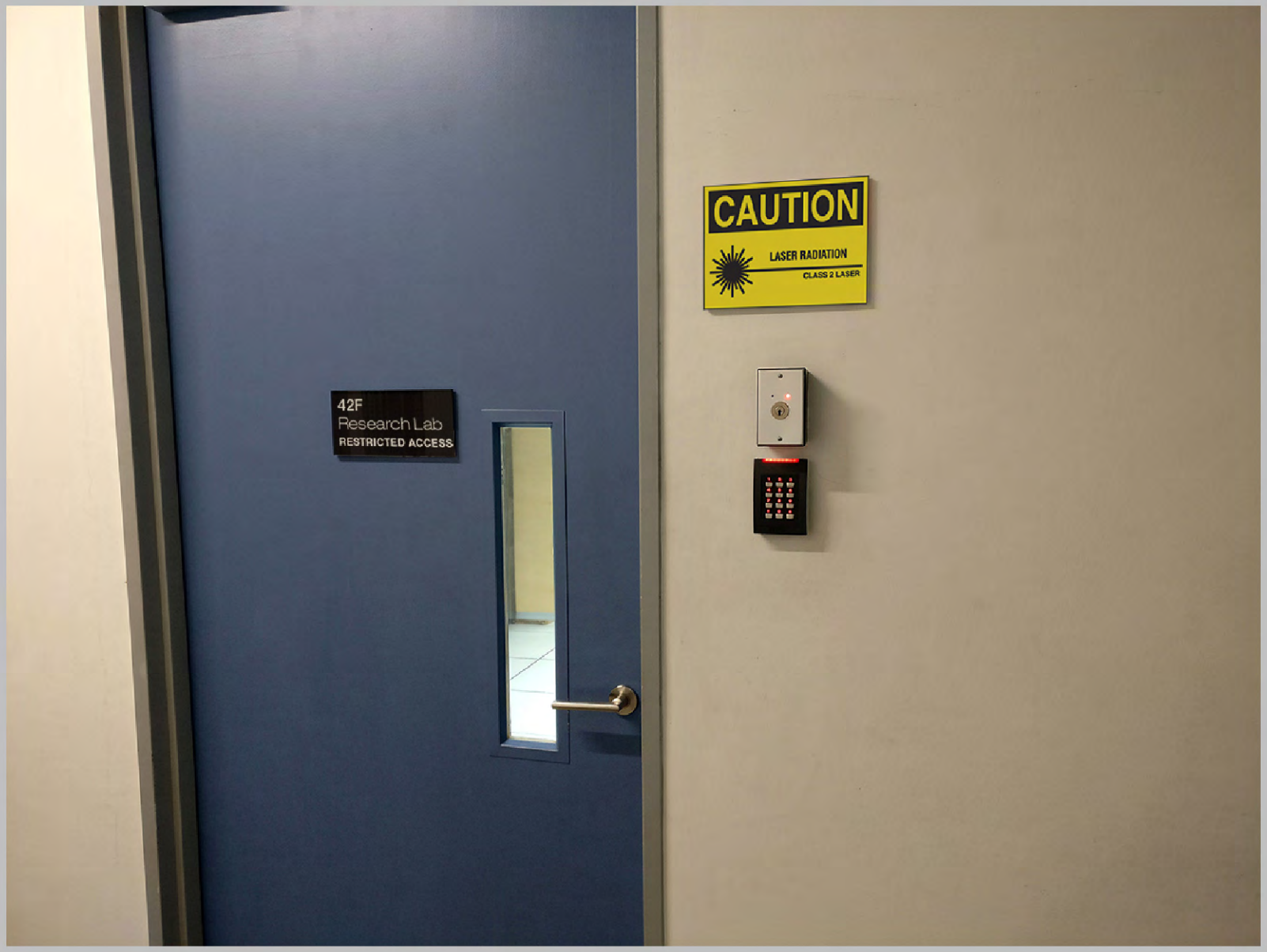
Real-World Examples



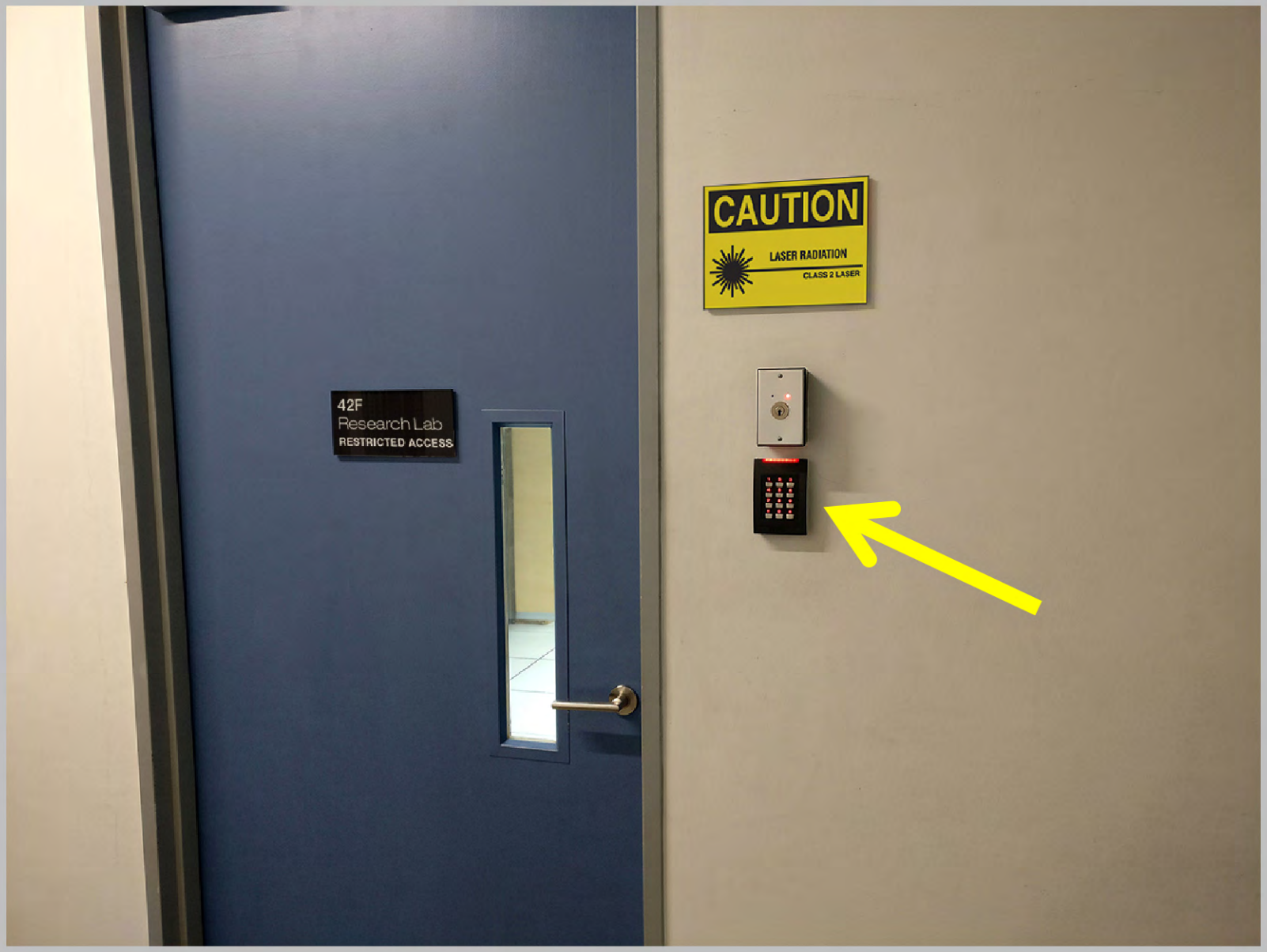
Real-World Examples



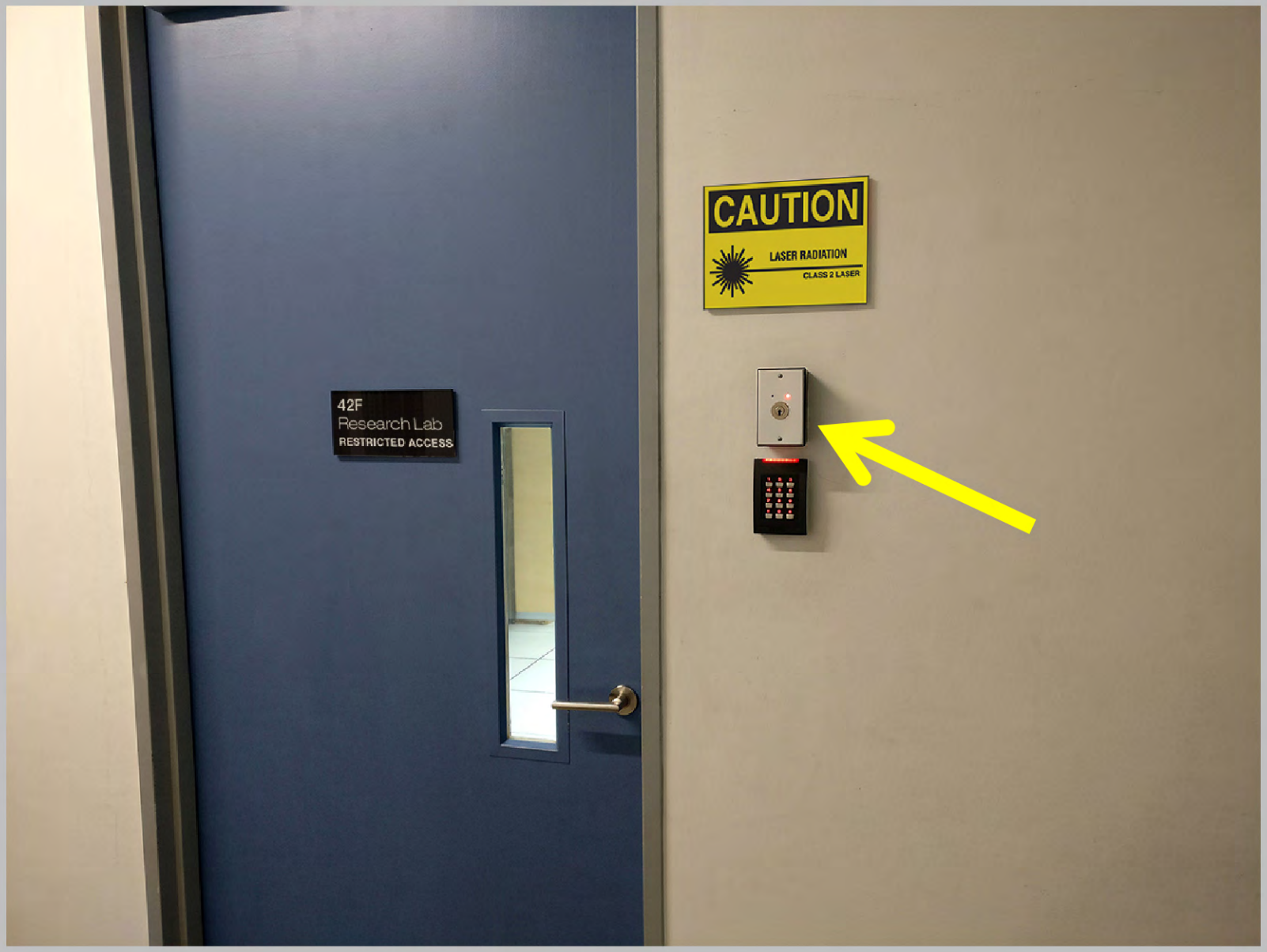
Real-World Examples



Real-World Examples



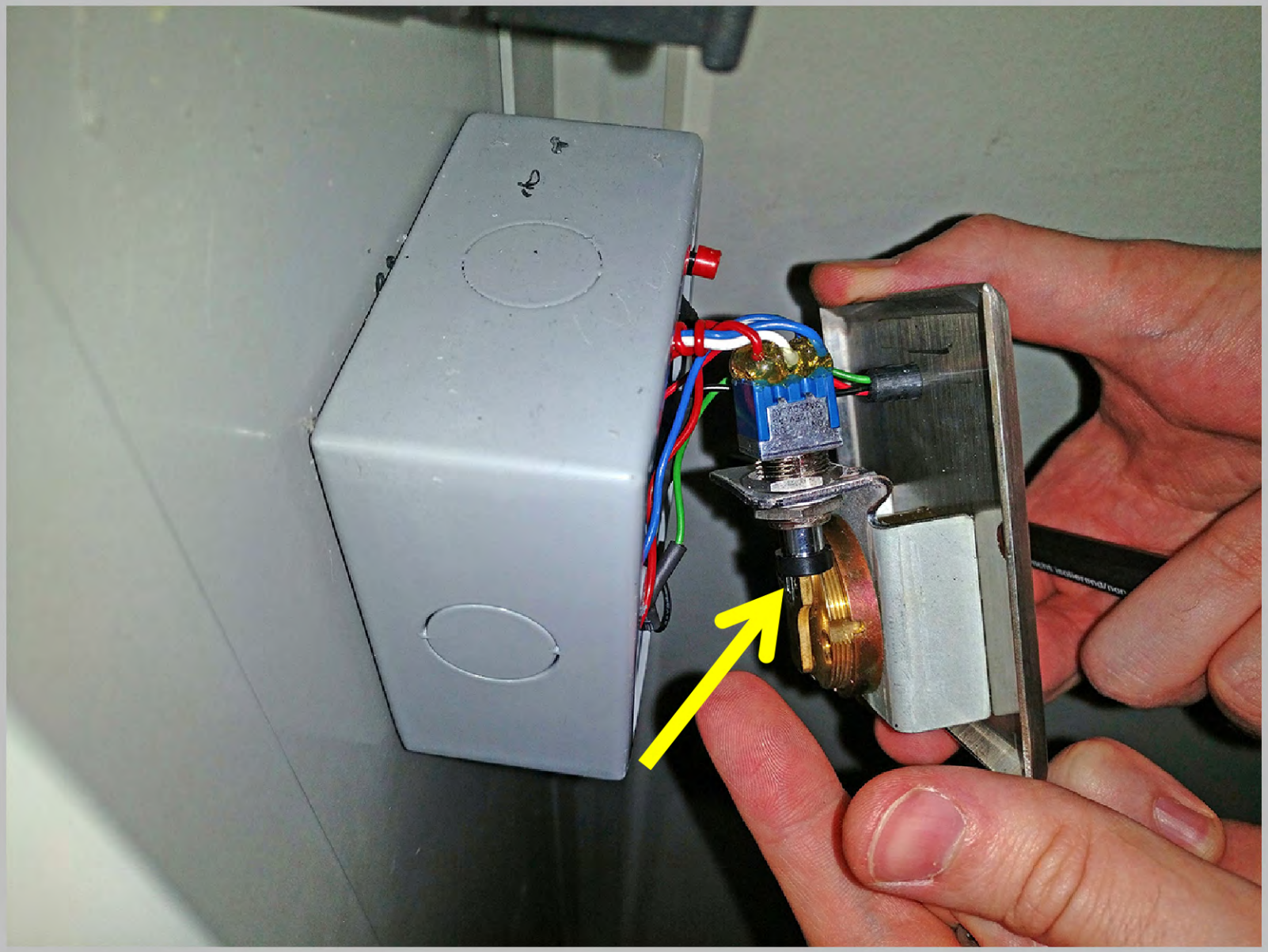
Real-World Examples



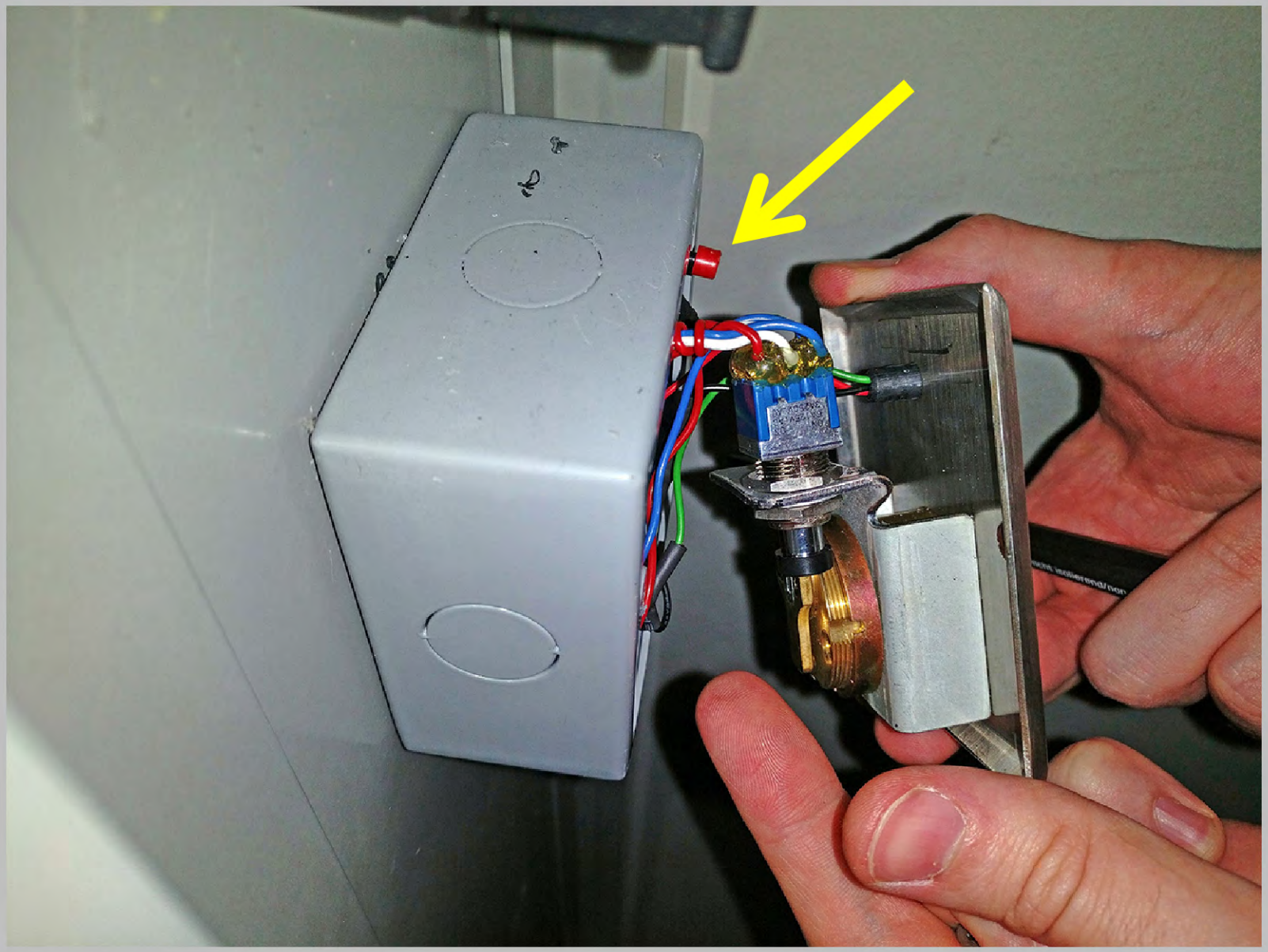
Real-World Examples



Real-World Examples



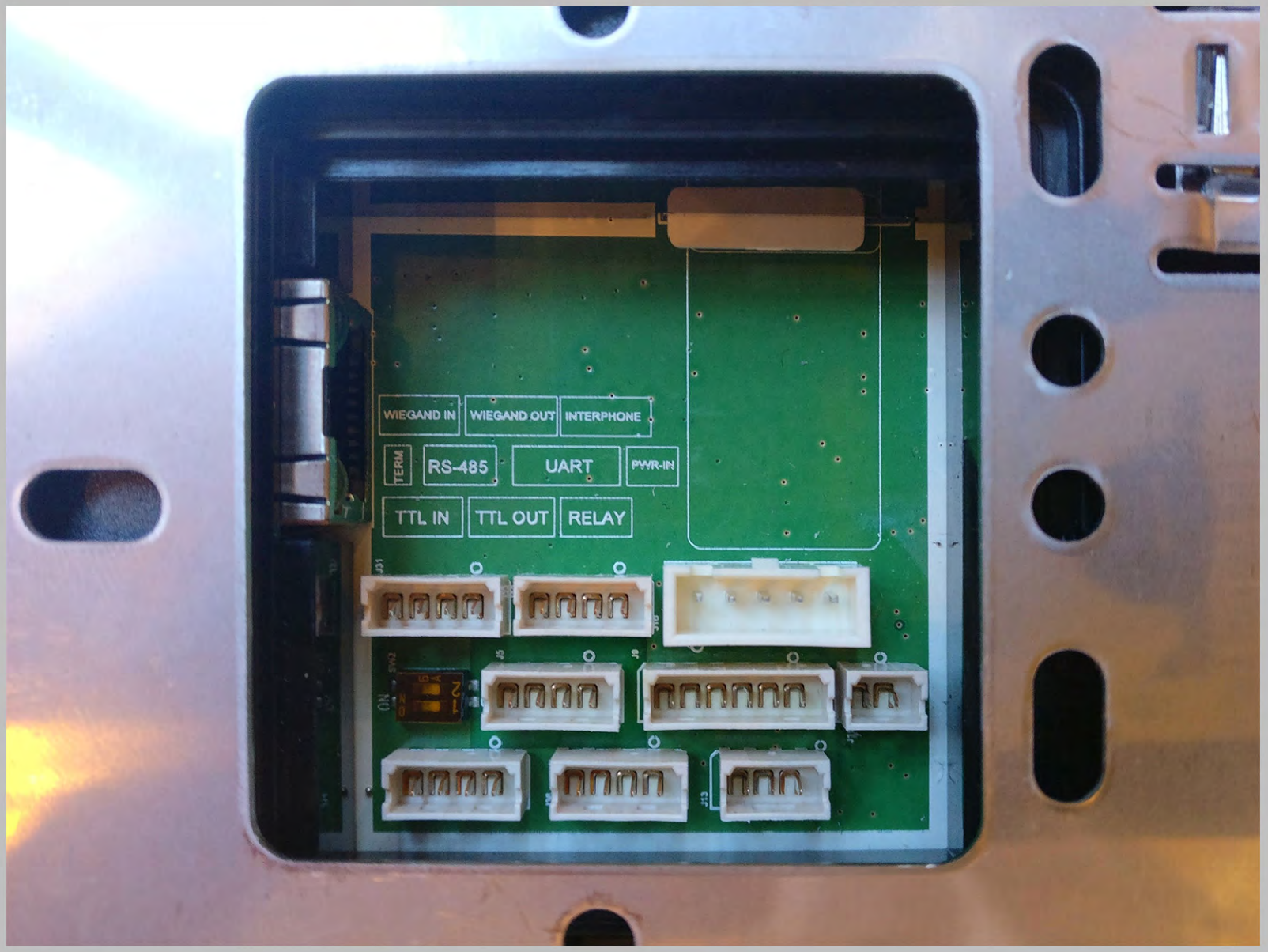
Real-World Examples



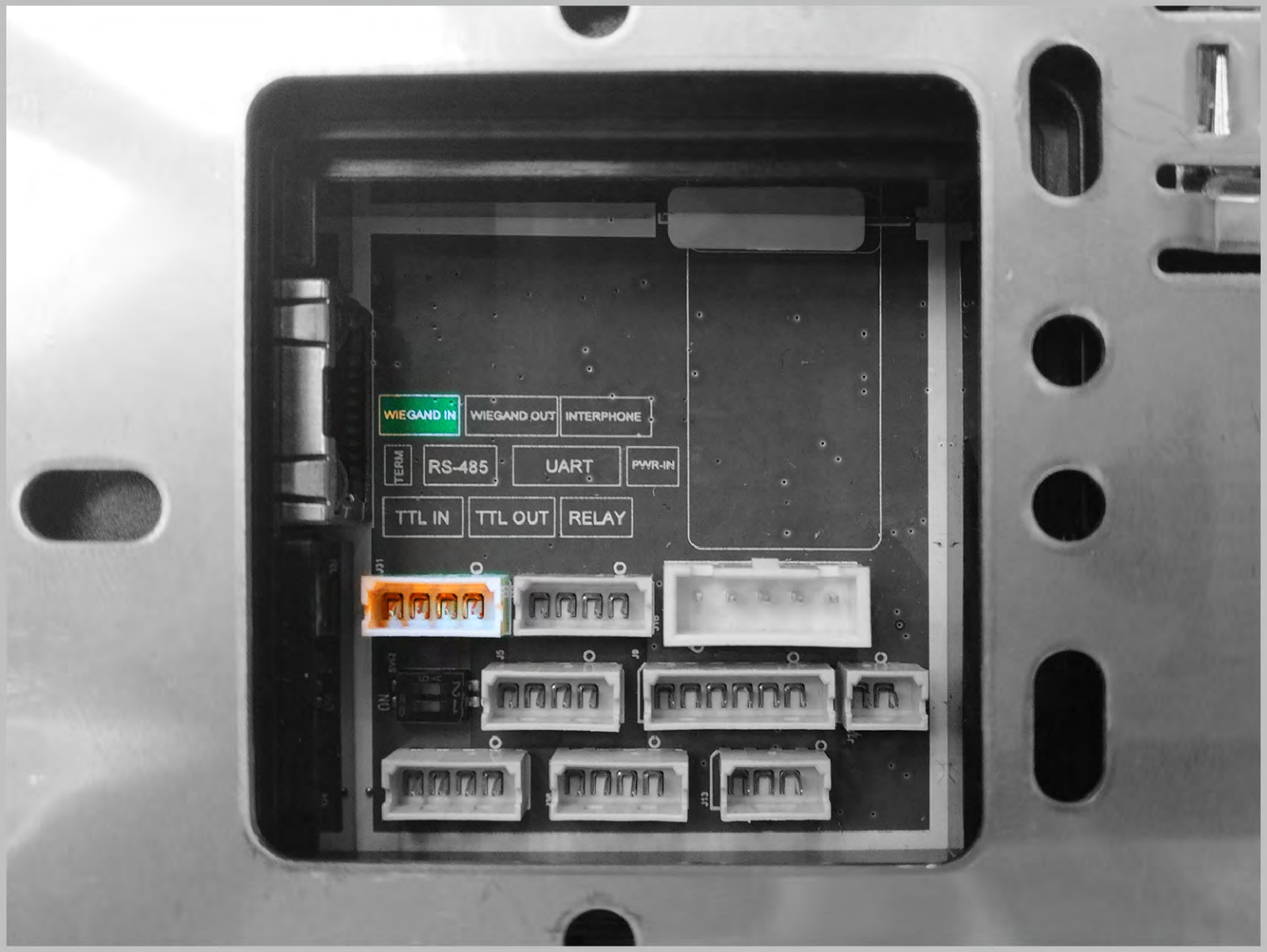
Real-World Examples



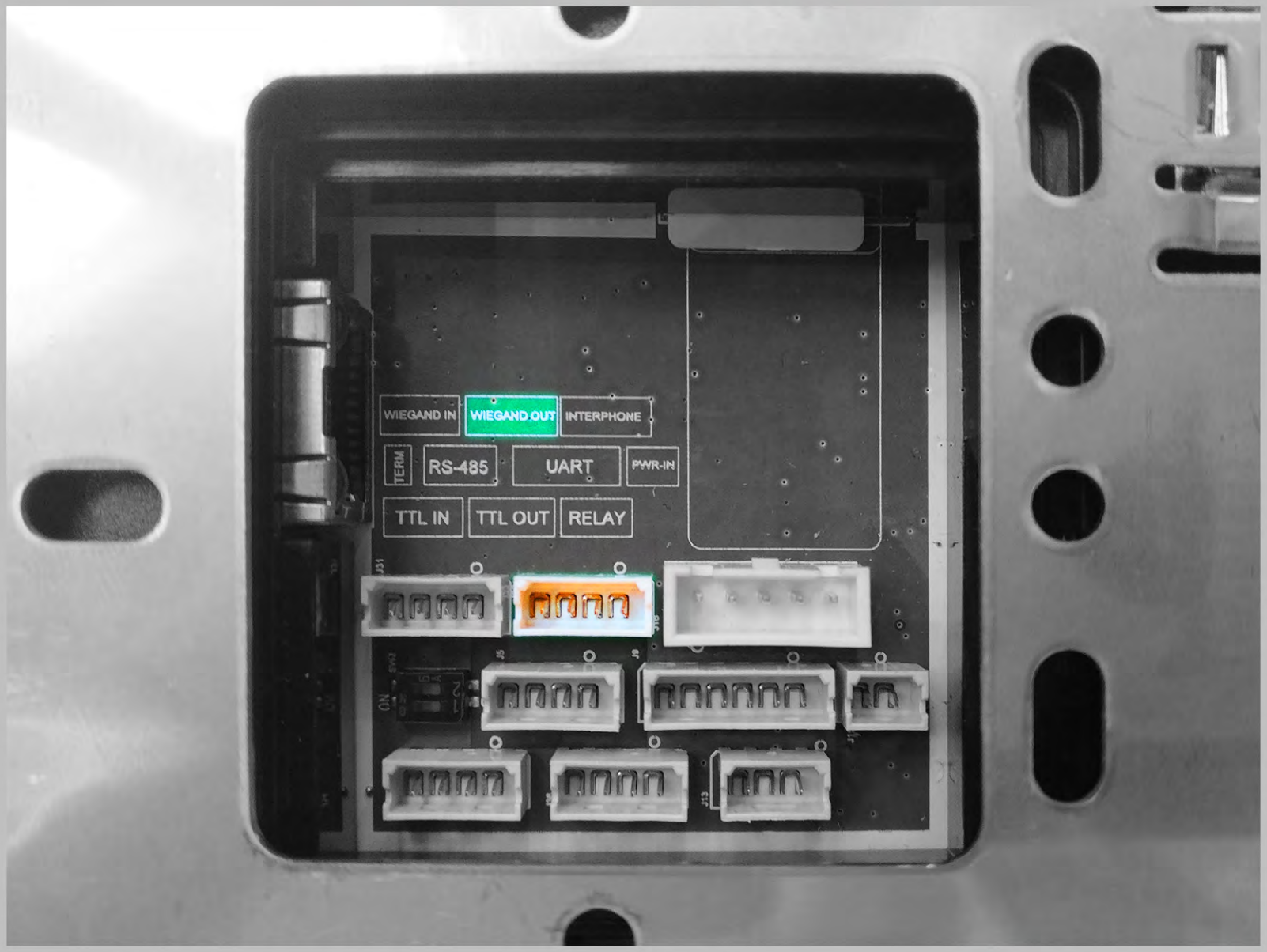
Real-World Examples



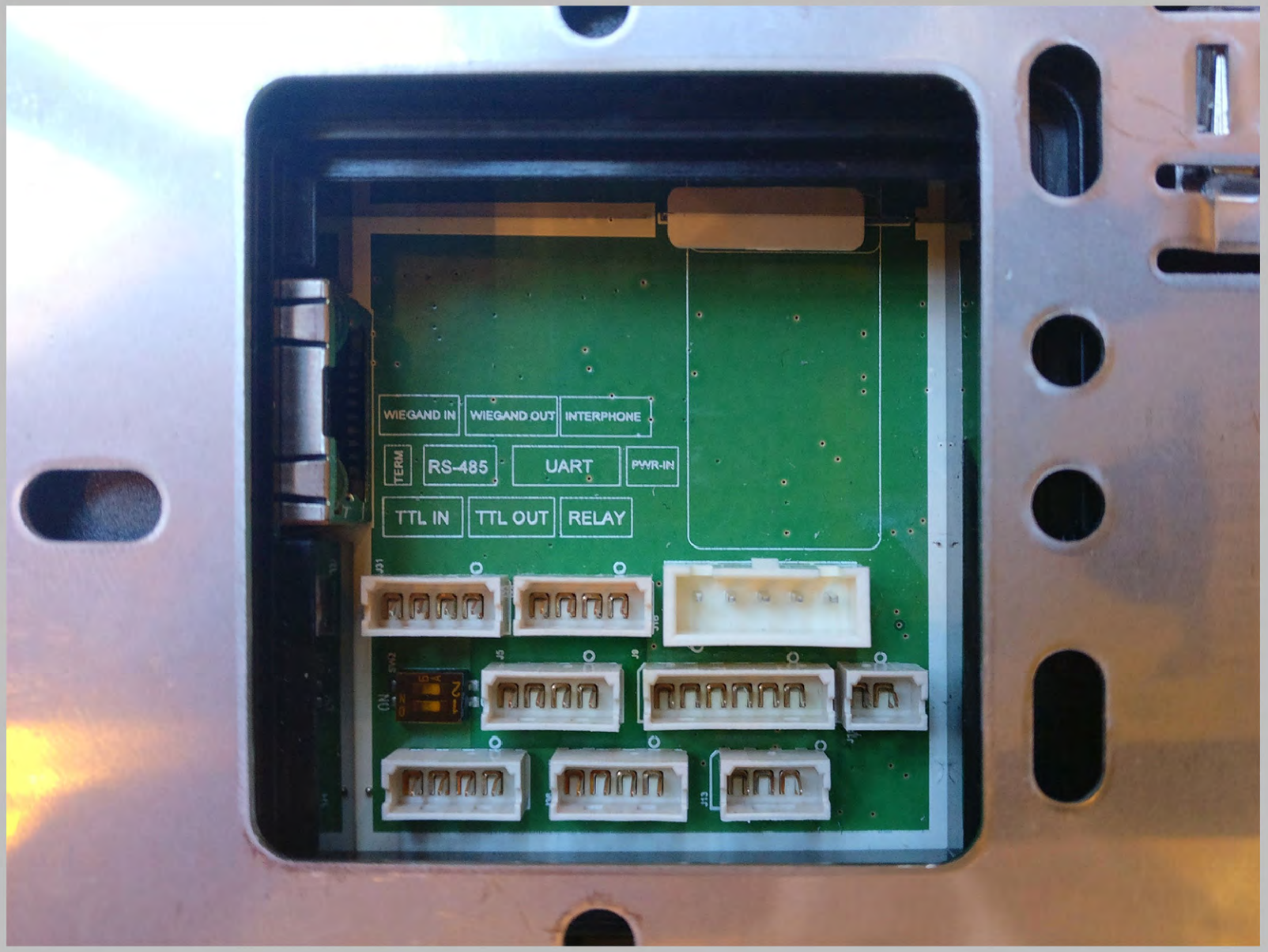
Real-World Examples



Real-World Examples



Real-World Examples



Real-World Examples



Real-World Examples



Remember… The Best Red Teamers



1. Think Unconventionally
2. Attack Across All Surfaces
3. Model the Relevant Threat
4. Demonstrate Impact
5. Interface with the Blue Team

A Bonus Gift For You All



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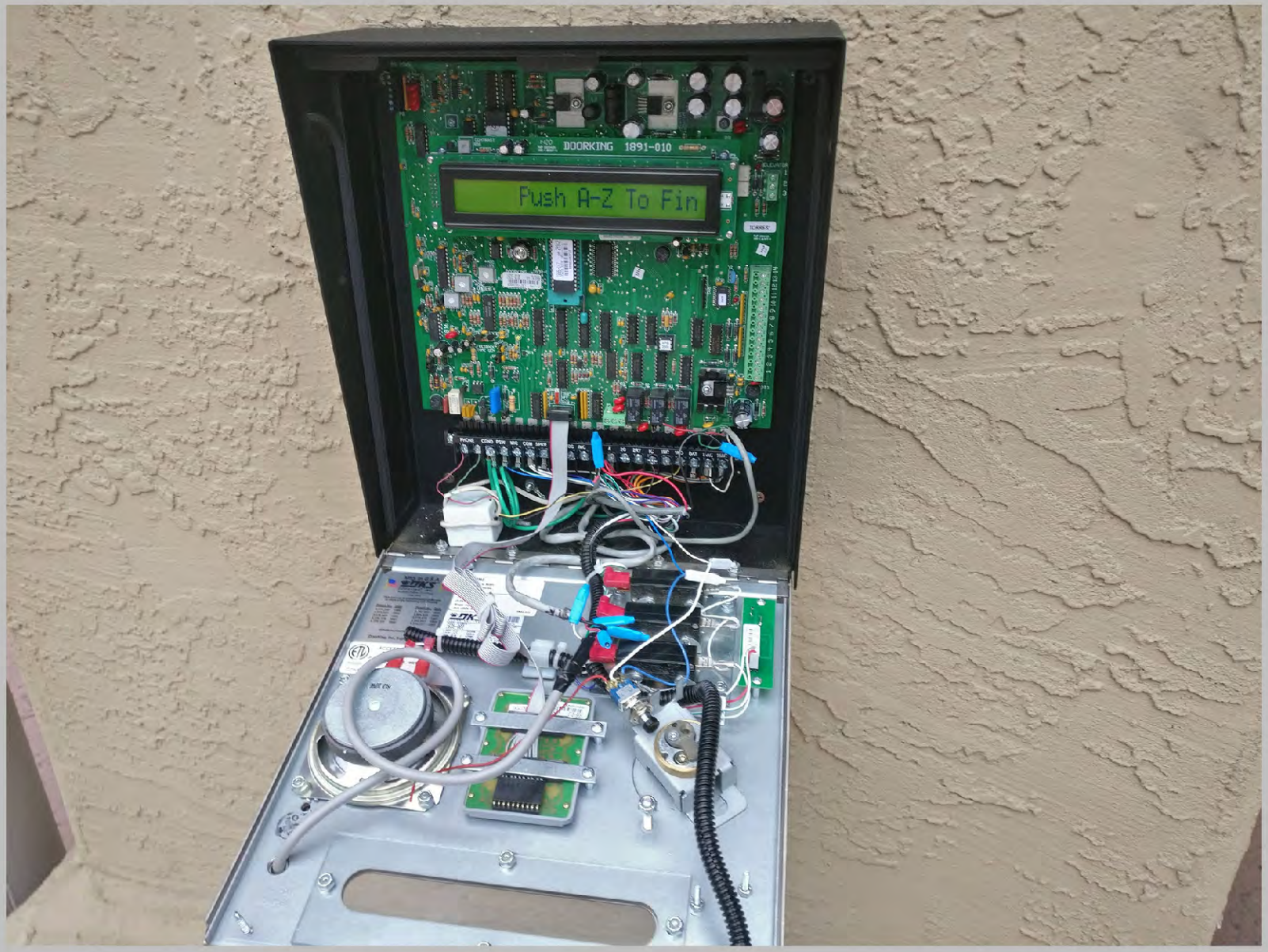
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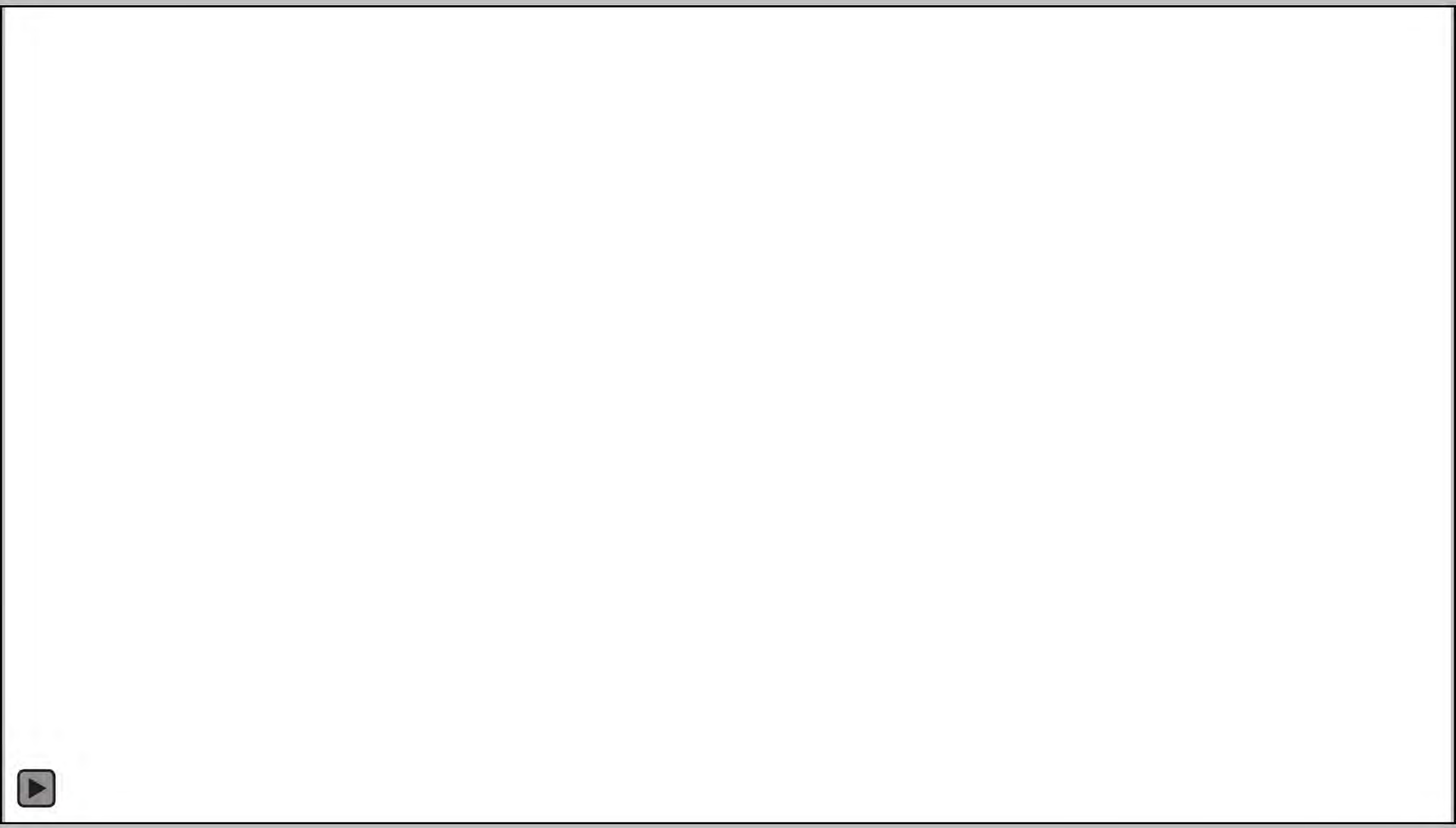
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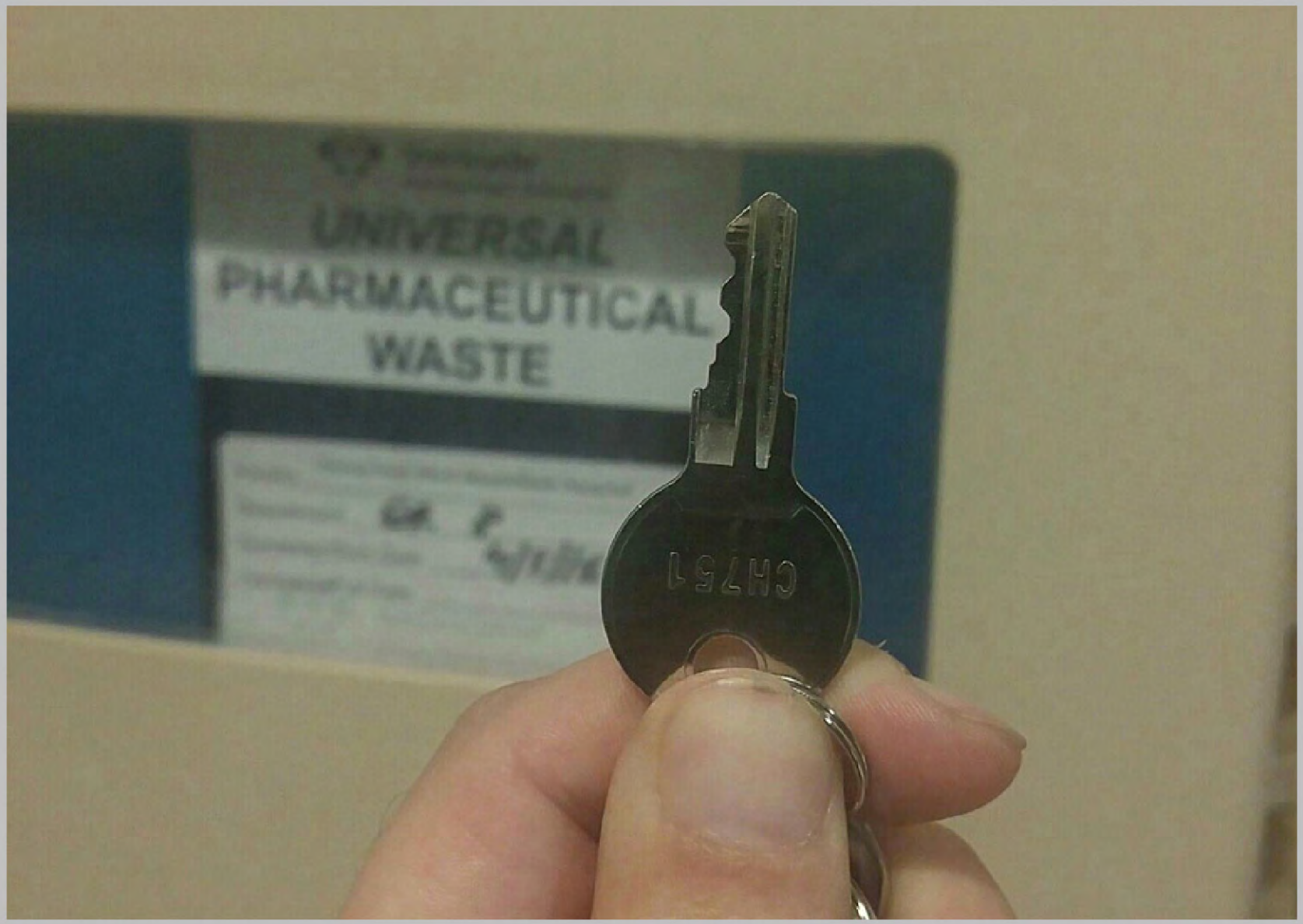
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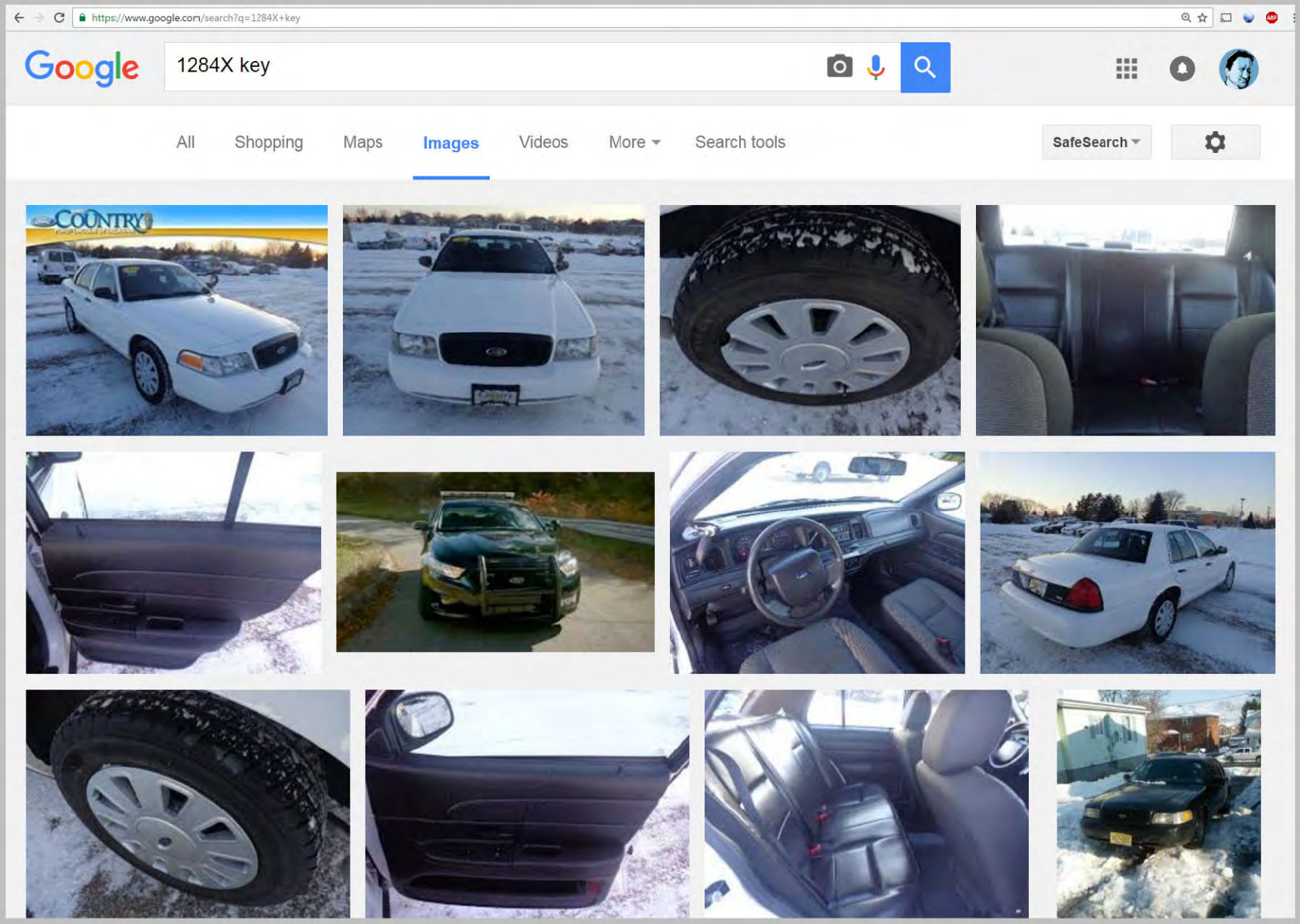
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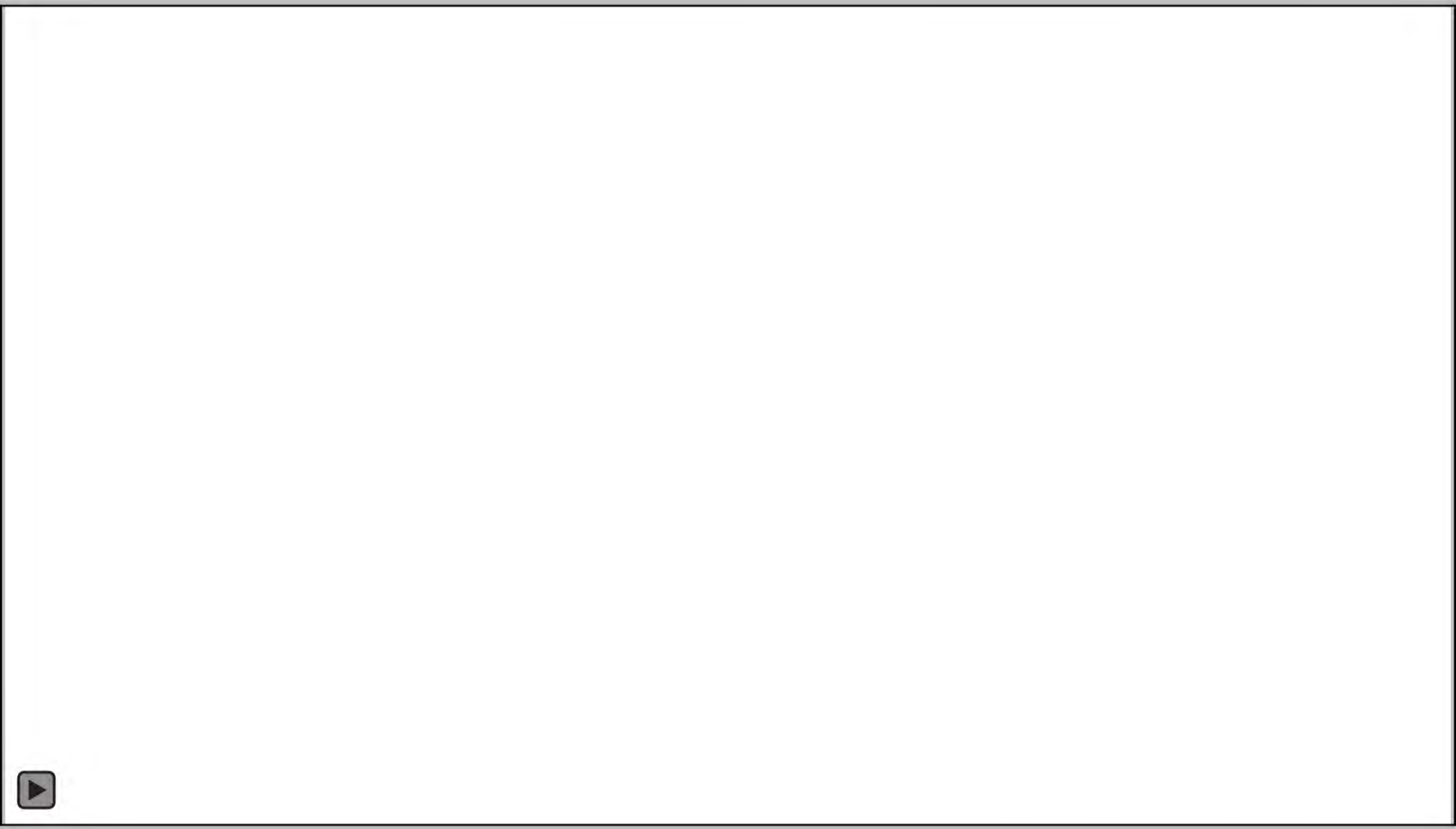
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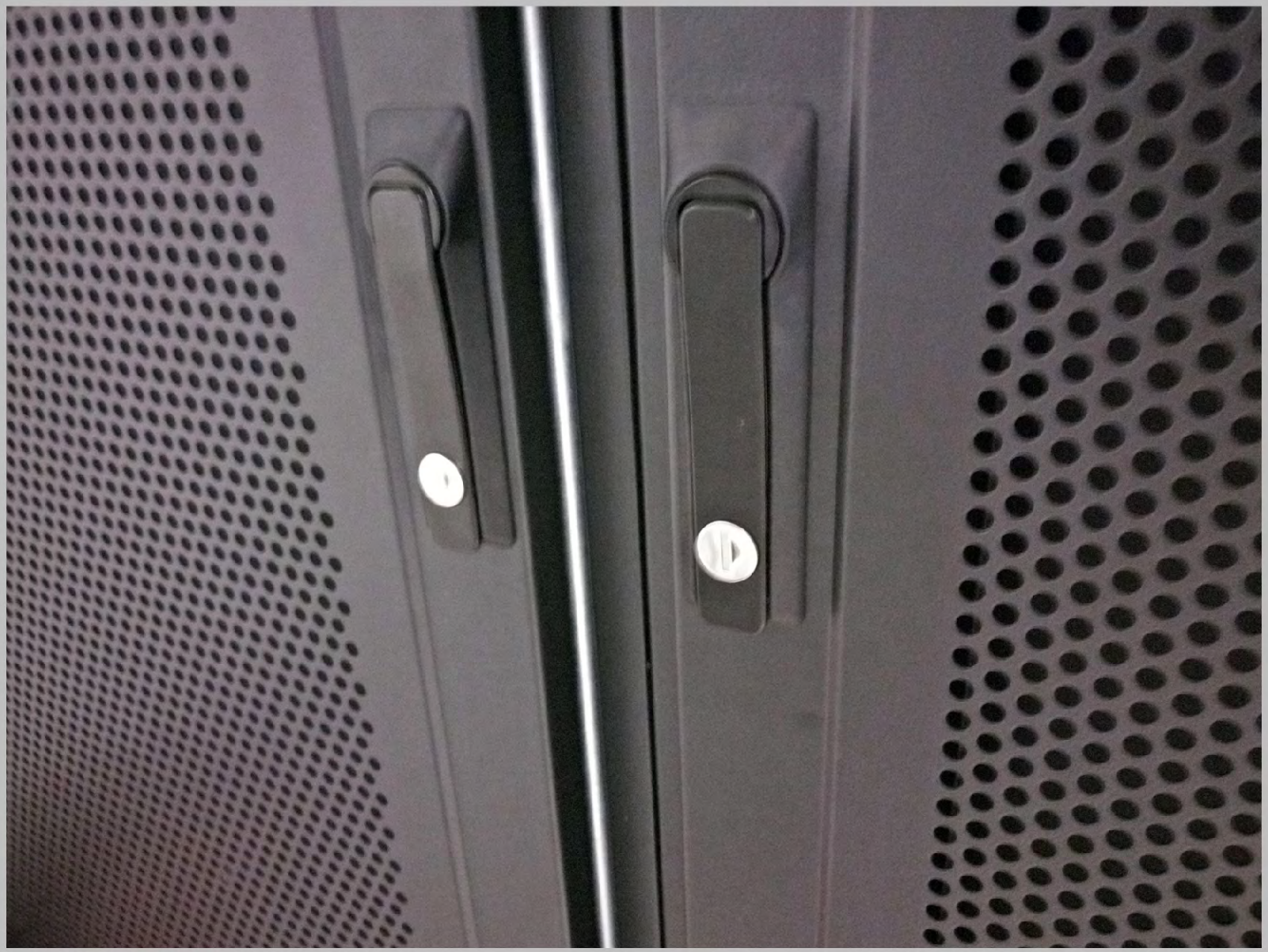
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EMKA Industrial Keys



EMKA Industrial Keys



EMKA Industrial Keys



EMKA Industrial Keys







Dev's Previous Everyday Carry Keyring



Dev’s New Everyday Carry Set

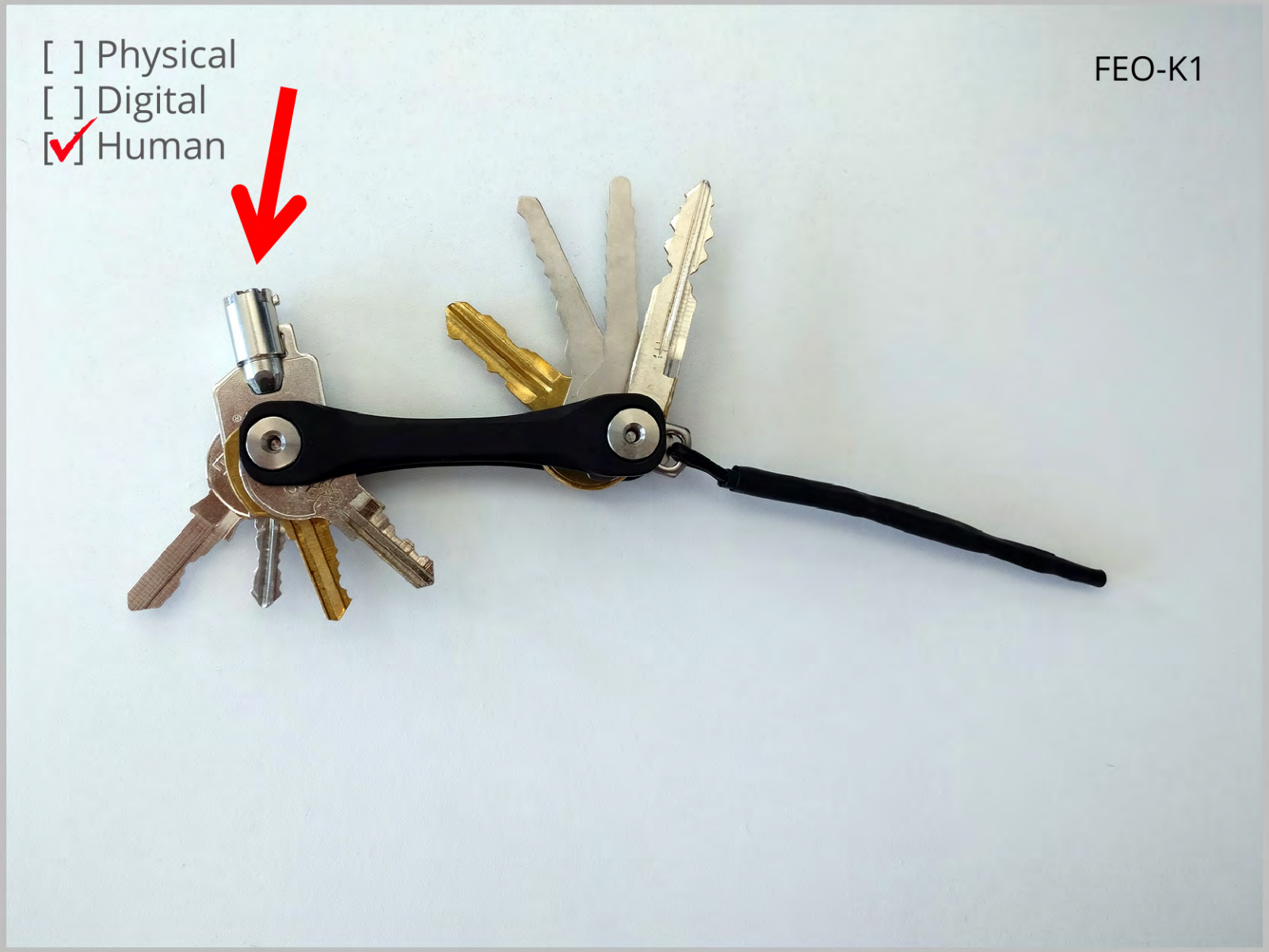


Dev's New Everyday Carry Set

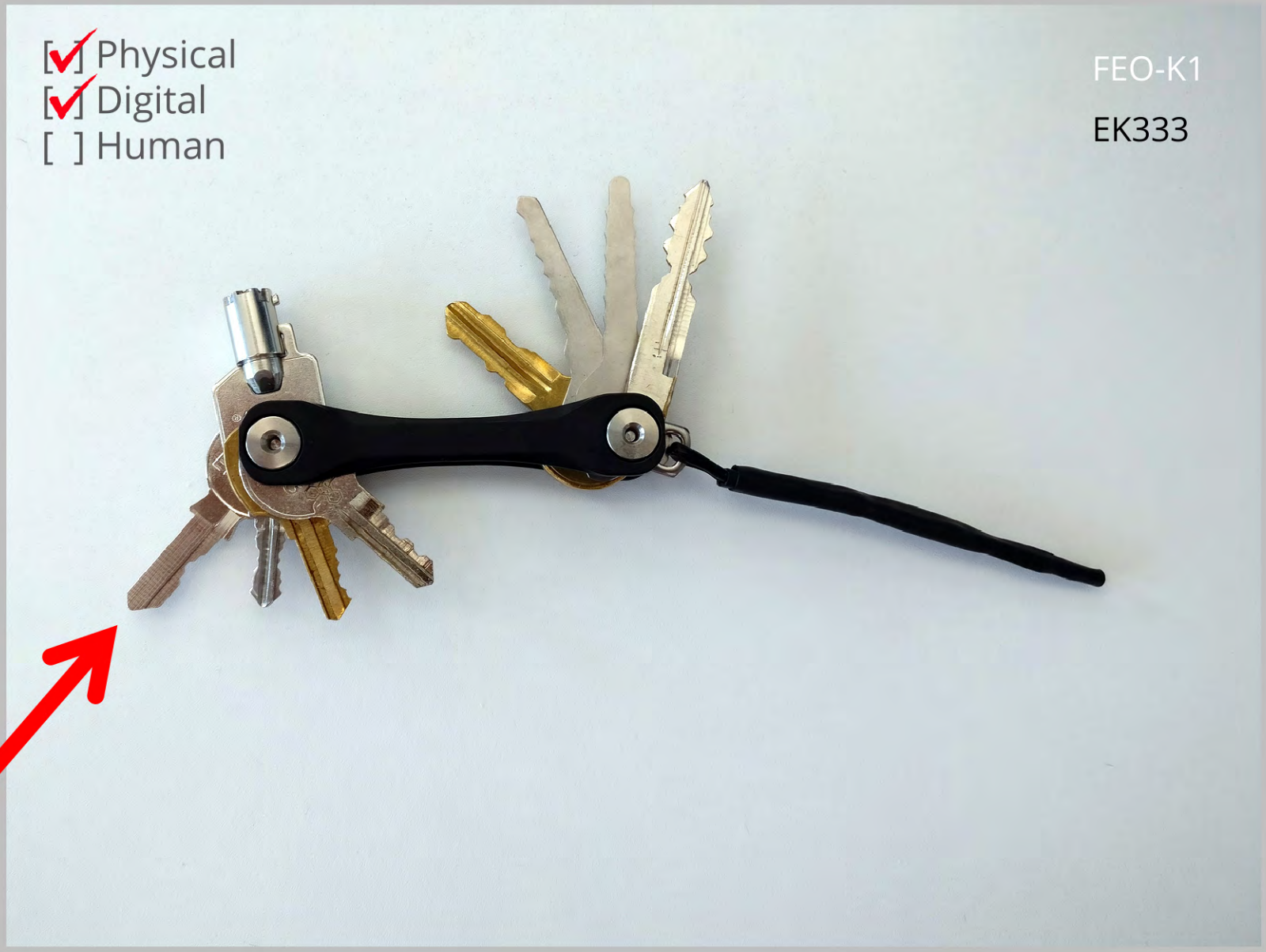
[ ] Physical
[ ] Digital
[ ] Human



Dev's New Everyday Carry Set



Dev's New Everyday Carry Set



Dev's New Everyday Carry Set

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[ ] Human

FEO-K1

EK333

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Dev's New Everyday Carry Set

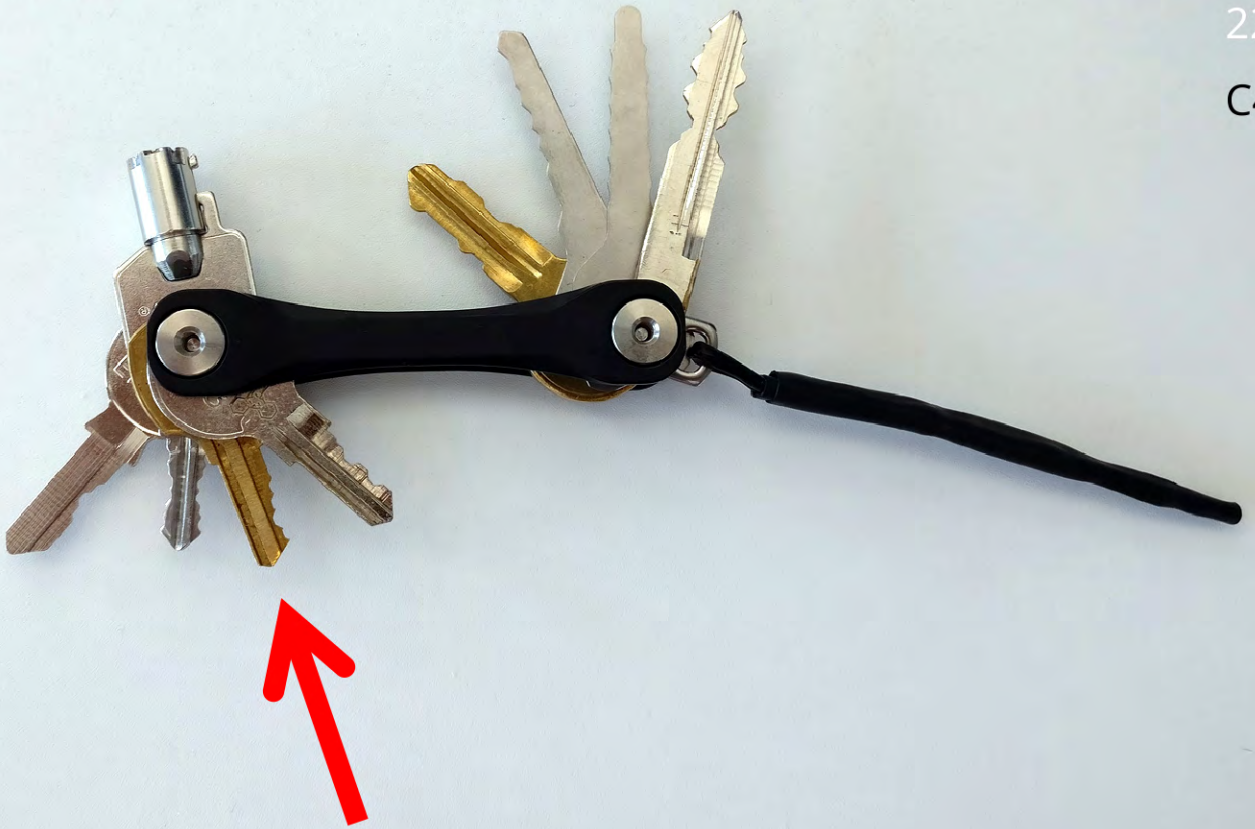
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C415A



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C415A

CH751

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C415A

CH751

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CH751

16120

Jigglers

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EK333

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C415A

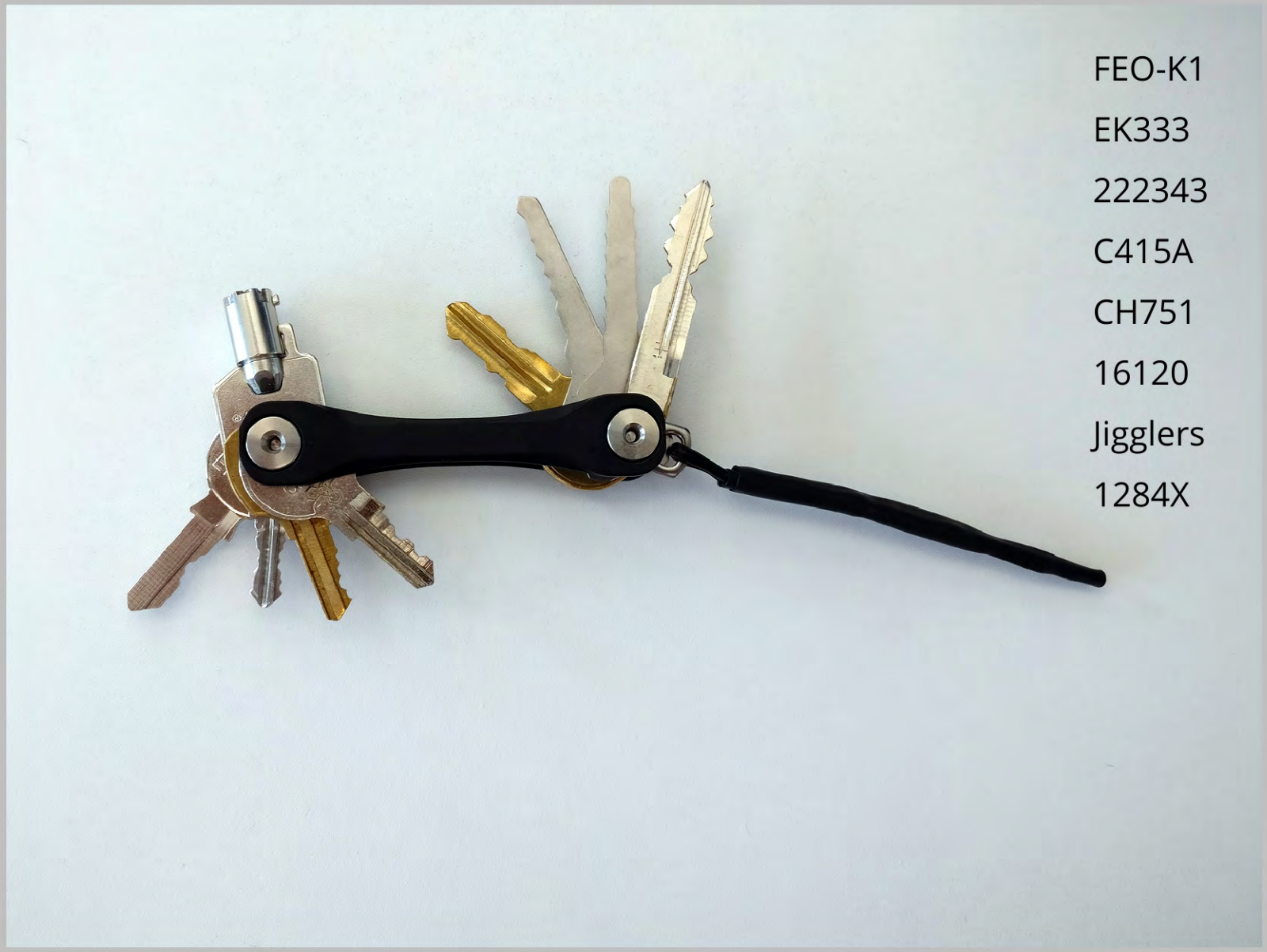
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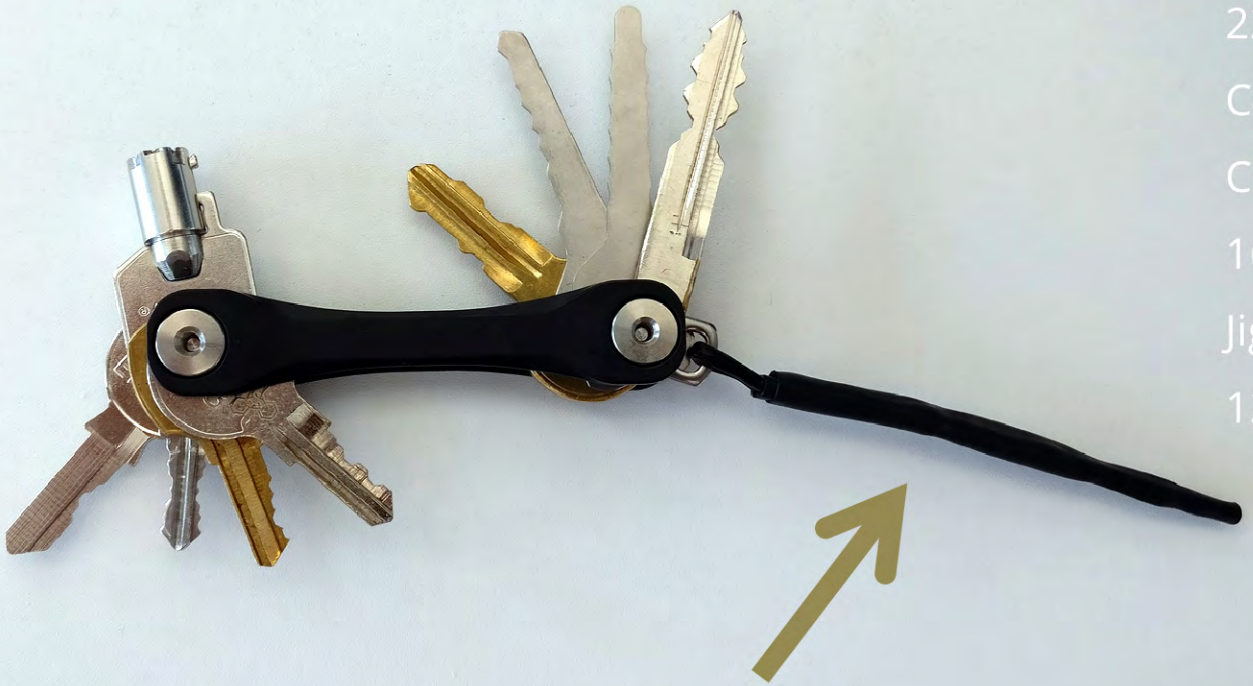
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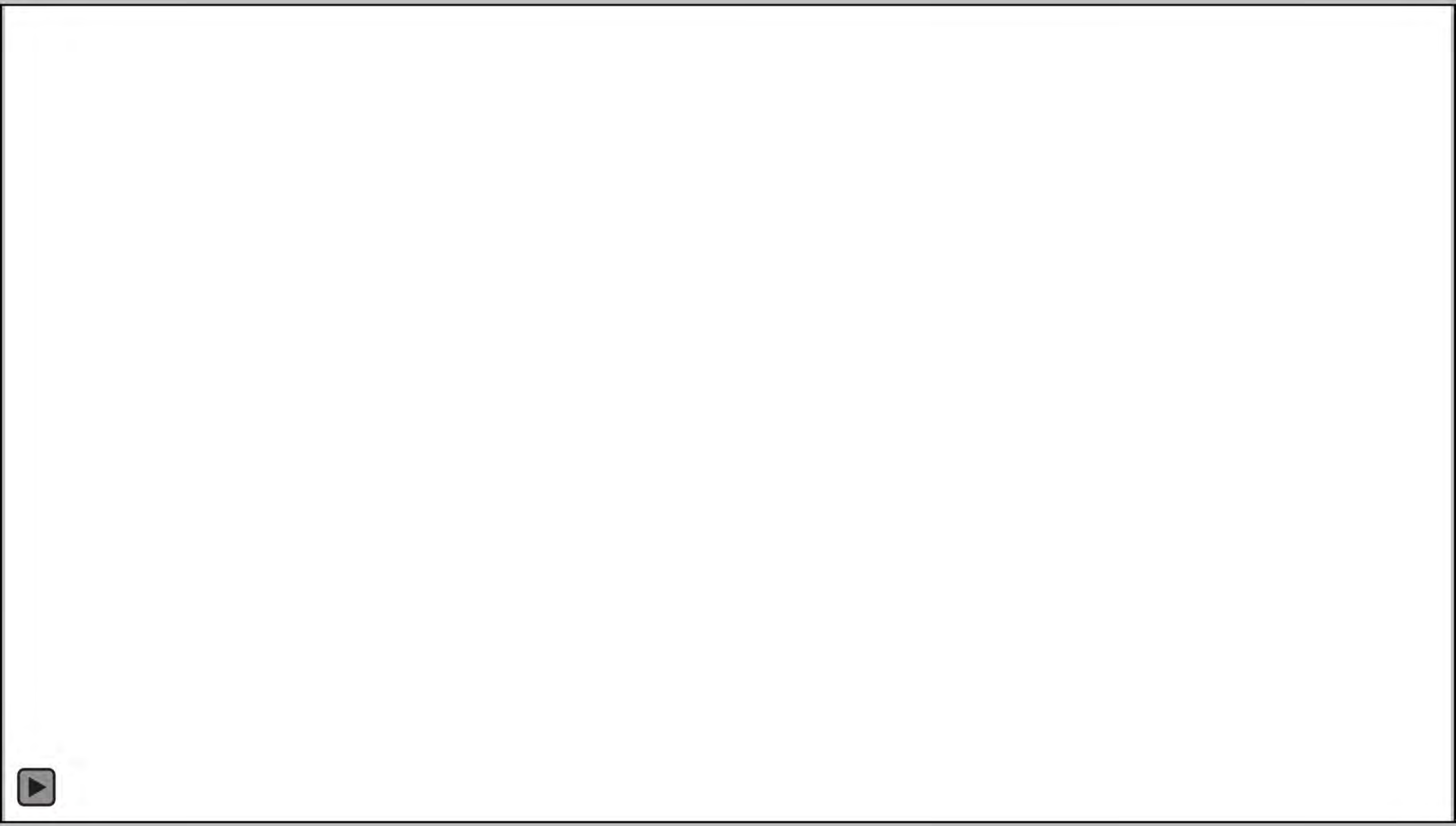
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then what's this?

Dev's New Everyday Carry Set



Dev's New Everyday Carry Set



Dev's New Everyday Carry Set



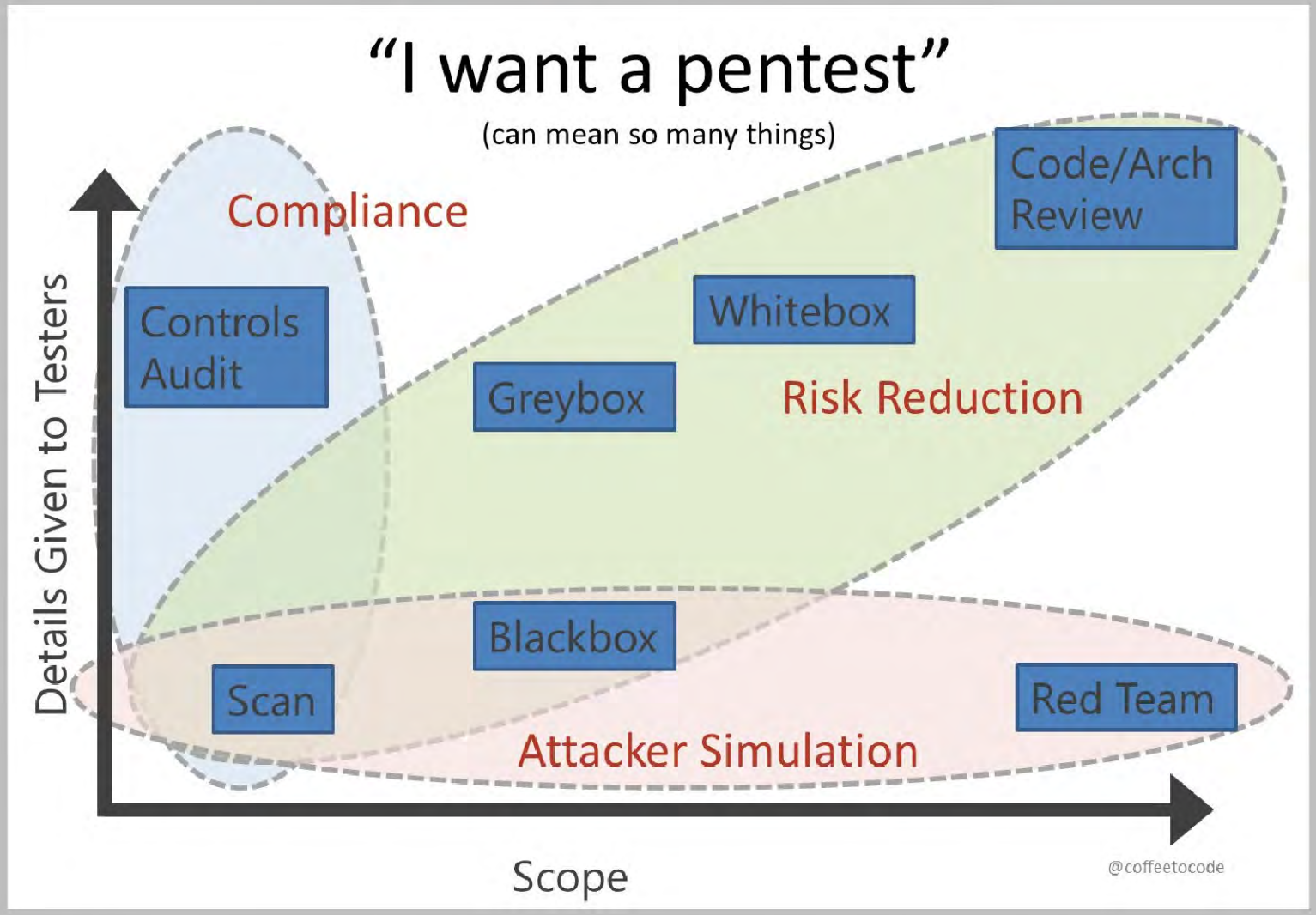
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In Conclusion



Untangling the Terminology



https://twitter.com/coffeetocode/status/794593057282859008

“On Pentesting, Professionalism, & Chill”

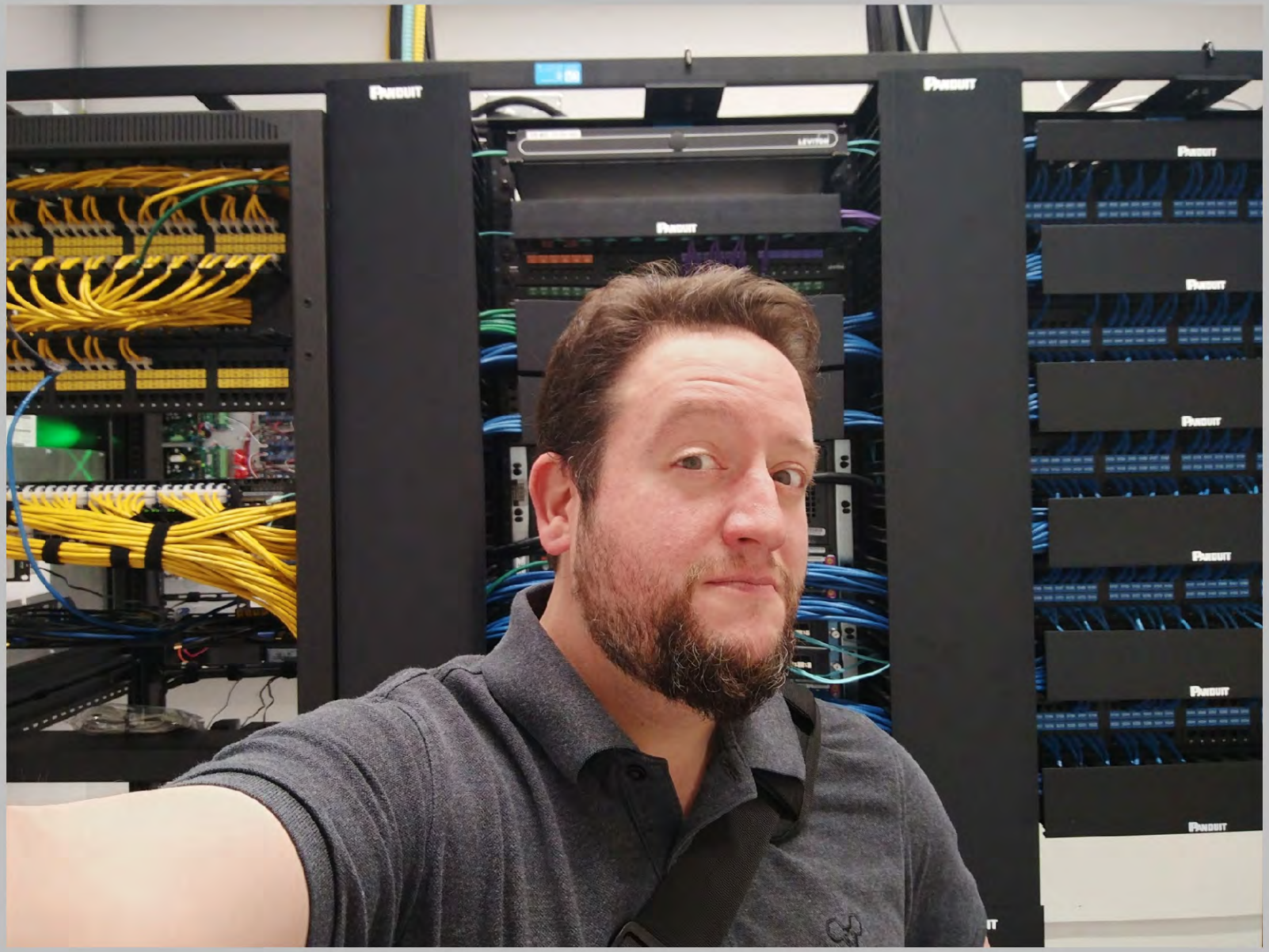


https://coffeetocode.net/2016/09/on-pentesting-professionalism-chill

Work Together to be Better Together



Getting in is Fun... Getting Caught is the Goal



Let’s Keep Making Things Better



Thank You Very Much

delta@enterthecore.net
at the office

@deviantollam
on twitter

"whiskey, neat"
at the bar

