Cybersecurity is closer related to psychology than computer science.

Reframing the Enemy.

We have created an entirely new virtual world in which to interact.

And none of us are not built for this.

We all can be hacked.

DATA BREACH STATISTICS

DATA RECORDS LOST OR STOLEN SINCE 2013

14,717,618,286

ONLY **4%** of breaches were "Secure Breaches" where encryption was used and the stolen data was rendered useless.

DATA RECORDS ARE LOST OR STOLEN AT THE FOLLOWING FREQUENCY

EVERY DAY	EVERY HOUR	EVERY MINUTE	EVERY SECOND
6,526,660	**271,944**	**4,532**	**76**
Records	Records	Records	Records

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A basic profile of criminals are individuals with low self control, more risk-taking, impulsive, shortsighted insensitive to others, and seek immediate and easy gratification.

Emotional Persuasion

People, unlike machines, do not often change behavior in line with logical information: they need PR and propaganda.

Principles of Influence

Reciprocity

Commitment and Consistency

Social Proof

Liking

Authority

Scarcity

You are being presented with insufficient information to make critical decisions.

Current landscape.

Hackers vs. IT Managers

263 IT Security Professionals

250 Self-Identified Hackers

91% of cyber attacks start with people instead of technology.

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Nearly one third (32%) of respondents said accessing privileged accounts was the number one choice for the easiest and fastest way to get at sensitive data, followed closely by 27% indicating access to user email accounts was the easiest path to capturing critical data.

FOR THE LOVE OF GOD

STOP CLICKING ON PHISHING EMAILS!

Technology provides advantages for
social engineering and persuasion

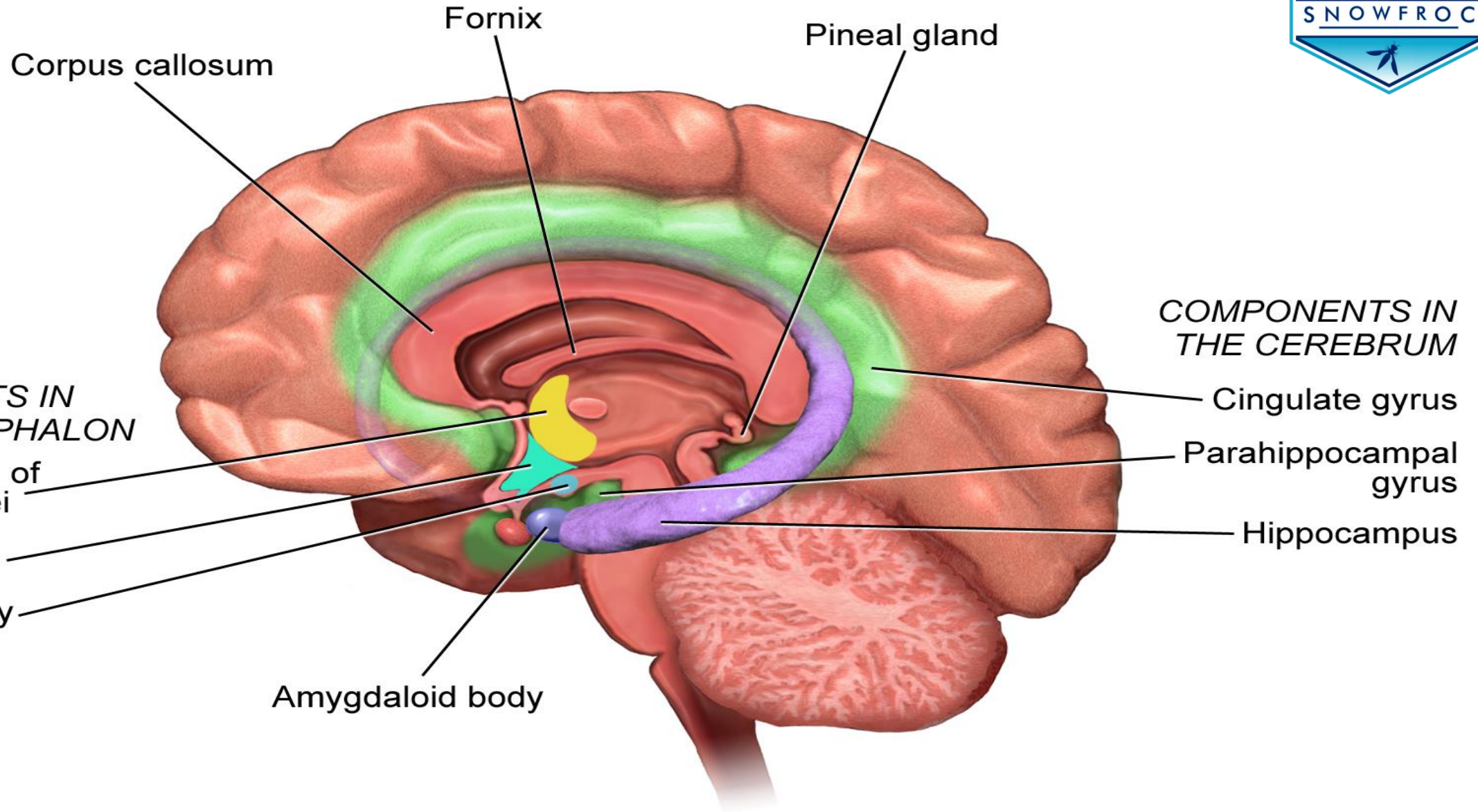More persistent than humans
Offers anonymity
Manages large amounts of data
Targets millions in seconds
Can use many modalities to influence
Can go where humans cannot

The Limbic System

You are now reading this

in my voice

Threat Language

"… I adjusted the virus on an adult web-site which you have visited. When the object clicks on a play button, the device begins recording the screen and all cameras on ur device start working.

Moreover, my program makes a remote desktop supplied with keylogger function from your device, so I was able to get all contacts from ur e-mail, messengers and other social networks.…"

Threat Language

"...You have one day after opening my message, I put the special tracking pixel in it, so when you will open it I will know. If ya want me to share proofs with ya, reply on this letter and I will send my creation to five contacts that I\'ve got from ur device..."

Amygdala Hijacking

When a person's emotional response is immediate, overwhelming, and immeasurable.

Getting to Know You
"Your Digital Footprint"

Active Reconnaissance

Passive Reconnaissance

William Klemm, a neuroscience professor at Texas A&M University

"Creativity comes from a mind that knows, and remembers, a lot."

Follow-up Study

Conducted survey (1123 respondents)

Conducted 27 semi-structured interviews

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New Research Findings

Younger people were more likely to share passwords compared with older people.

Only one of the subscales was significant: perseverance. Perseverance measures the ability to remain with a task until completion and avoid becoming bored.

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New Research Findings cont'd

It was found those who score high on self-monitoring were significantly more likely to share passwords compared with those who score low on this measure.

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And surprisingly...

Cybersecurity knowledge does not matter. Cyber professionals revealed information just as often as everyone else!

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29% of all employees revealed PII.
Age, race, and gender played no factor on response rate.

Big 5 Model for Cyber Victims

Extraversion
Agreeableness
Conscientiousness
Emotional stability
Open to new experiences

Riskiest Personality Trait...

Impulsiveness

I think reporting cybercrime is a waste of time.

I don't know who is ultimately responsible.

Only large companies are targeted by hackers.

If I report a cyber attack it would damage the company's reputation.

Information provided by the government and police are not relevant.

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Disabled anti-virus so they could download (31%)

Sent PII over the internet (29%)

Shared location over social media (67%)

Stores company PII on personal computer (53%)

Use personal USB to transfer company data (47%)

In a side study correlation study, participants were asked to type in a series of usernames and passwords. Depending on their group the participants were told their information would either be erased or saved.
The group that was told their data would be saved were less likely to remember.
This study indicates people have lower rates of recall when they can expect to be able to access information in the future.

Training…We are doing it wrong.

The perfect economic environment exists for cybercriminals.

Dubsmash - $ 4,995 – 15.5 million records

MyHeritage – $3,552 – 65.7 million records

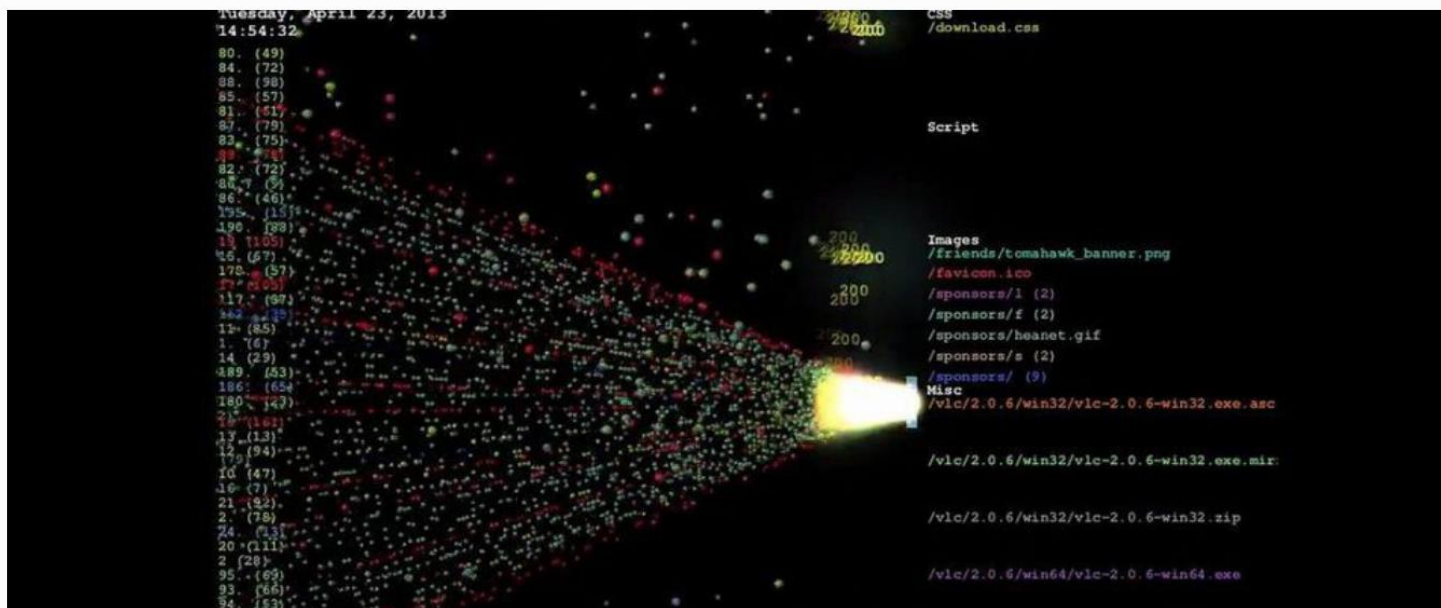My Fitness Pal - $4,218 – 50 million records

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The future of hacking

As we innovate, they innovate.

World's Biggest Mirai Botnet Is Being Rented Out For DDoS Attacks

Lee Mathews Contributor ⓘ
Nov 29, 2016, 11:59am • 5,252 views • #CyberSecurity

Forbes' Thomas Fox-Brewster recently reported on a DDoS-for-hire tool. For $7500, anyone who wanted to cause a little online mayhem could rent an army of 100,000 bots. Its controllers boasted that the Mirai-based botnet could unleash attacks of 1 Terabit per second or more.

SAMP

$16

Bendición para su nuevo host de SAMP.

HOSTING

PANEL - MYSQL - PCU

400 SLOTS

ANTI QUERY FLOOD

ANTI BOTS FLOOD

99% UPTIME GARANTIZADO

PAGAR

CORRIENTE DIVINA

$20

La ira de dios será empleada en contra de la IP que nos proporcione.

NULL NFO

DOWN OVH

TS3 SCRIPTS

QUERY FLOOD

BOTS

290 - 300 GBPS DE VOLTAJE GARANTIZADOS

PAGAR

TEAMSPEAK 3

$9

Bendición para su nuevo host de TEAMSPEAK 3.

HOSTING

LICENCED 450 SLOTS

ANTI CRASH SCRIPTS

ANTI FLOOD SCRIPTS

99% UPTIME GARANTIZADO

PAGAR

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BRONZE

$15

1 Month License

7/24 Support

Web Panel

Advanced Keylogger

-

-

1 Month Updates

1 Month Builds

Buy Now

SILVER

$35

3 Months License

7/24 Support

Web Panel

Advanced Keylogger

Crypter

-

3 Months Updates

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7/24 Support

Web Panel

Advanced Keylogger

Crypter

doc/xls Converter

1 Year Updates

1 Year Builds

Buy Now

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What is Satan?

Apart from the mythological creature, Satan is a ransomware, a malicious software that once opened in a Windows system, encrypts all the files, and demands a ransom for the decryption tools.

How to make money with Satan?

First of all, you'll need to sign up. Once you've sign up, you'll have to log in to your account, create a new virus and download it. Once you've downloaded your newly created virus, you're ready to start infecting people.

Now, the most important part: **the bitcoin** paid by the victim **will be credited to your account**. We will keep a 30% fee of the income, so, if you specified a 1 BTC ransom, you will get 0.7 BTC and we will get 0.3 BTC. The fee will become lower depending on the number of infections and payments you have.

First time logging in

This is your secret token for recovering your password: _____

Malwares		**1**
Infections		**1**
Paid		**0**

Balance	0.00000000 ฿

Your bitcoin address   **Withdraw**

Create a malware

Ransom   Ransom in BTC (min 0.1)

Use "." as decimal separator.

Multiplier   Optional

Used to multiply the ransom by X times after Y days.

Multiplier (Days)   Optional

Online builder

Receiver address

Payment page

Encryption method

AES 256

Default decrypter

Automatic

UAC bypass

Enable

Locker message

Receiver address should be put in with protocol and without slash on end. Example: http://onionsite.onion/p.php

Payment page should be written in the same way.

In locker message word {IDENTY} would be replaced with User ID so that you can construct links to the payment page. Example http://ytrfjyeddvasd.onion/payment.php?ID=
>>> http://ytrfjyeddvasd.onion/payment.php?ID=AAAA-AAAA-AAAA

Create build   Download panel

Panel setup short guide

hansamkt3iph6sbb.onion/listing/14673/

🔍 Search

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Vendor	**Mythoclast** [+0|0] `Level 1 (0)`
Class	Digital

Quantity: 1

🛒 Buy Now

? Question   🚩 Report

/*DiamondFox*/

hansamkt3iph6sbb.onion

ℹ️ Details   💬 Feedback

Listing Details

Hacked USA Western Union Accounts

I bring you freshly USA Hacked Western Union logins. Accounts will be in the format shown below: Username: Password: Name: Address: Country: Phone: CC: (Does not come with CC info or CW, The CC is just attached to the account you will get) National Number: Verification Status: Shop: These accounts are randomly selected, I do not have Additional information on these accounts PI...

Sold by **TheMerchant** - *886* sold since *Nov 15, 2016*   Vendor Level 4   Trust Level 4

	Features		Features
Product class	Digital goods	**Origin country**	Worldwide
Quantity left	Unlimited	**Ships to**	Worldwide
Ends in	Never	**Payment**	Escrow

1 Hacked Verified Western Union Account With CC Attached to Account for $39.99 - 1 days - USD +39.99 / item ▼

Purchase price: USD 0.00

Qty: 1   ฿ **Buy Now**

0.0000 BTC / 0.0000 XMR

Our Pricing

1 Month Basic

5.00€
/month

1 Concurrent +

300 seconds boot time

125Gbps total network capacity

Resolvers & Tools

24/7 Dedicated Support

Order Now

Bronze Lifetime

22.00€
Lifetime

1 Concurrent +

600 seconds boot time

125Gbps total network capacity

Resolvers & Tools

24/7 Dedicated Support

Order Now

Gold Lifetime

50.00€
Lifetime

1 Concurrent +

1200 seconds boot time

125Gbps total network capacity

Resolvers & Tools

24/7 Dedicated Support

Order Now

Green Lifetime

60.00€
Lifetime

1 Concurrent +

1800 seconds boot time

125Gbps total network capacity

Resolvers & Tools

24/7 Dedicated Support

Order Now

Business Lifetime

90.00€
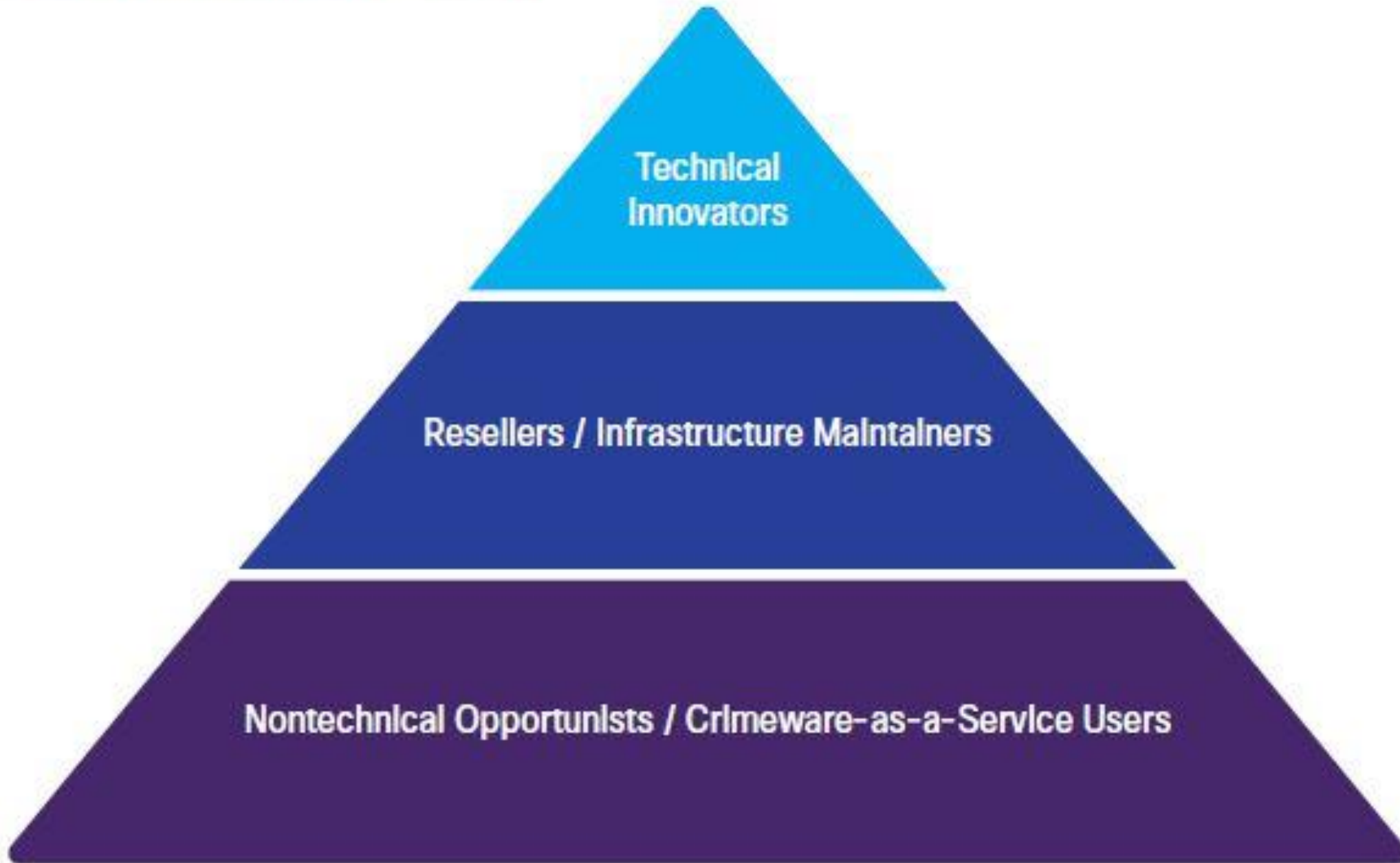lifetime

1 Concurrent +

3600 seconds boot time

125Gbps total network capacity

Resolvers & Tools

24/7 Dedicated Support

Order Now

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The Cybercriminal Hierarchy

Technical Innovators

Resellers / Infrastructure Maintainers

Nontechnical Opportunists / Crimeware-as-a-Service Users

Trust is the foundation of security.

Thank you.

Erik.Huffman@HandshakeLeadership.com