



THE CYBERHERO ADVENTURES™

DEFENDERS OF THE DIGITAL UNIVERSE



NICE

NATIONAL INITIATIVE FOR
CYBERSECURITY EDUCATION

AON
Empower Results®

CYBER RESILIENCE REDEFINED

We're Here for You

Aon's Cyber Solutions is a world-class cyber security team building confidence in a world of uncertainty. Offering holistic cyber risk management solutions, unsurpassed investigative skills, and proprietary technologies, we help clients uncover and quantify cyber risks, protect critical assets, and recover from cyber incidents.

Our clients call us — and we're at our best — when the stakes are high and the potential for damage is great. We are united by a common goal: to protect today and safeguard tomorrow.

Find out more at aon.com/cyber-solutions

AON
Empower Results®

National Cybersecurity Career Awareness Week

Inspiring and promoting awareness & exploration of cybersecurity careers

Objectives

- Create excitement around increasing public awareness and engagement in building a strong cybersecurity workforce
- Highlight the numerous pathways to enter the cybersecurity career field
- Showcase programs that increase participation of underserved populations in the cybersecurity workforce



Cybersecurity Workforce Demand

Currently in the US, there are over 300,000 unfilled cybersecurity positions.
June 2018, CyberSeek.org

The NICE Cybersecurity Workforce Framework categorizes and describes cybersecurity work. Learn more about the numerous pathways to obtain a position in one of these 7 cybersecurity job categories.
nist.gov/nice/framework



SECURELY
PROVISION



OPERATE &
MAINTAIN



OVERSEE &
GOVERN



PROTECT &
DEFEND



ANALYZE



COLLECT &
OPERATE



INVESTIGATE

How to Get Involved

For K12 Audiences

- Invite speakers to your school to present lectures and demonstrations about cybersecurity careers
- Create and Display a bulletin board about cybersecurity in your school
- Start a cybersecurity club or competition team
- Partner with a science museum to present hands-on-exhibits about the field of cybersecurity
- Use one of NICE's downloadable resources as a classroom activity

For Adult Audiences

- Coordinate a lecture, workshop, or activity on careers in cybersecurity
- Set up and staff an exhibit table at a local office or community center to distribute resources
- Launch a social media campaign to spread the word
- Contact local radio or television stations to incorporate a career in cybersecurity segment
- Volunteer to assist or coach a cybersecurity competition team

When?



2nd Week
of November

Want to Learn

More? Visit...

nist.gov/nice/nccaw

NICE
NATIONAL INITIATIVE FOR
CYBERSECURITY EDUCATION

email: nccaw@nist.gov



ENSURING **SECURE** CLOUD CONTACT CENTERS

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EXTRA MILE TO
MAKE SURE



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beyond typical baseline
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PROACTIVE RISK AT THE NEW YORK
UNIVERSITY VETERANS FUTURE LAB AND
LAUNCHED AT BLACKHAT/DEFCON.**

**PENTESTON® IS A CYBER SECURITY
VULNERABILITY ASSESSMENT WORKBENCH,
ALSO KNOWN AS A HACKING PLATFORM, THAT
IS USED BY INDIVIDUALS, BUSINESSES AND
SERVICES PROVIDERS. PENTESTON QUICKLY
SNAPS INTO A PRE-CONFIGURED CYBER-RANGE
ALLOWING EASY SELECTION OF THE RIGHT
TOOL FOR THE JOB. ENGAGE A SINGLE SYSTEM
OR MULTIPLE TARGETS TO DETERMINE IF
IDENTIFIED TECHNICAL RISK PRESENTS A
THREAT TO YOUR BUSINESS. FOR LARGE
PROJECTS, COLLABORATE WITH MULTIPLE
TEAM MEMBERS, IMPORT AND ENTER MANUAL
FINDINGS TO A CENTRALIZED QA RESOURCE**

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www.proactiverisk.com



**CRITICAL INFRASTRUCTURE
ASSOCIATION OF AMERICA, INC.**
CIAOA

www.ciaoa.org

CRITICAL INFRASTRUCTURE
DESCRIBES THE PHYSICAL AND
CYBER SYSTEMS AND ASSETS THAT
ARE SO VITAL TO THE UNITED
STATES THAT THEIR INCAPACITY
OR DESTRUCTION WOULD HAVE A
DEBILITATING IMPACT ON OUR
PHYSICAL OR ECONOMIC SECURITY
OR PUBLIC HEALTH OR SAFETY.

THE NATION'S CRITICAL
INFRASTRUCTURE PROVIDES THE
ESSENTIAL SERVICES THAT
UNDERPIN AMERICAN SOCIETY.

AS AN IMPORTANT PART OF OUR MISSION
TO SUPPORT THE COMMUNITY,
THE CRITICAL INFRASTRUCTURE
ASSOCIATION OF AMERICA IS PROUD TO
SPONSOR:
THE CYBER HERO ADVENTURES



The CyberHero Adventures
Defenders of the Digital Universe

THE **CYBERHERO** ADVENTURES

DEFENDERS OF THE DIGITAL UNIVERSE!

ISSUE 1



WWW.CYBERHEROESCOMICS.COM

Gary Berman	writer creator
George Antoniou PhD	writer technical advisor
Daniel Dulitzky	pencils character design colors
Rey Acevedo	inks
Andres Labrada	cover art
Colors by Splash!	cover colors
Julio Alvarez	writer letterist
John Ulloa	colors design product mgmt design adviser

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1st Printing

Printed in
the USA

15 YEARS AGO...
IGNITE MARKETING
CONFERENCE, LONDON UK

OUR PEOPLE
ARE OUR MOST IMPORT-
ANT ASSET. THIS IS HOW
YOU BUILD A HIGH PER-
FORMING TEAM!

HOW DO I SET UP
MY COMPANY TO MANAGE
CHANGE OVER THE
LONG-TERM?

LARRY JONES
SPEAKS TO A ROOM OF
MARKETING EXECUTIVES.

LET'S BEGIN
BY UNDERSTANDING
HOW EACH AND EVERY
STAKEHOLDER WILL
PROFIT...

PLEASSED TO
MEET YOU MR JONES.
I'D LIKE FOR YOU TO COME
SPEAK TO MY COMPANY'S
EXECUTIVES.

AFTERWARD...

PLEASE CALL
ME SO WE CAN
MEET UP.

AFTERWARD...

COME ON...
YOU KNOW YOU
CAN'T RESIST!

FLYING HOME LATER THAT EVENING...

BUBBLE
GUM?

I TOSS
THEM INTO THE
AUDIENCE BEFORE
A SPEECH.

PEOPLE
LEARN BETTER AS
CHILDREN.

WOW. THAT
SCENT SURE TAKES
ME BACK!

WELCOME
ABOARD!

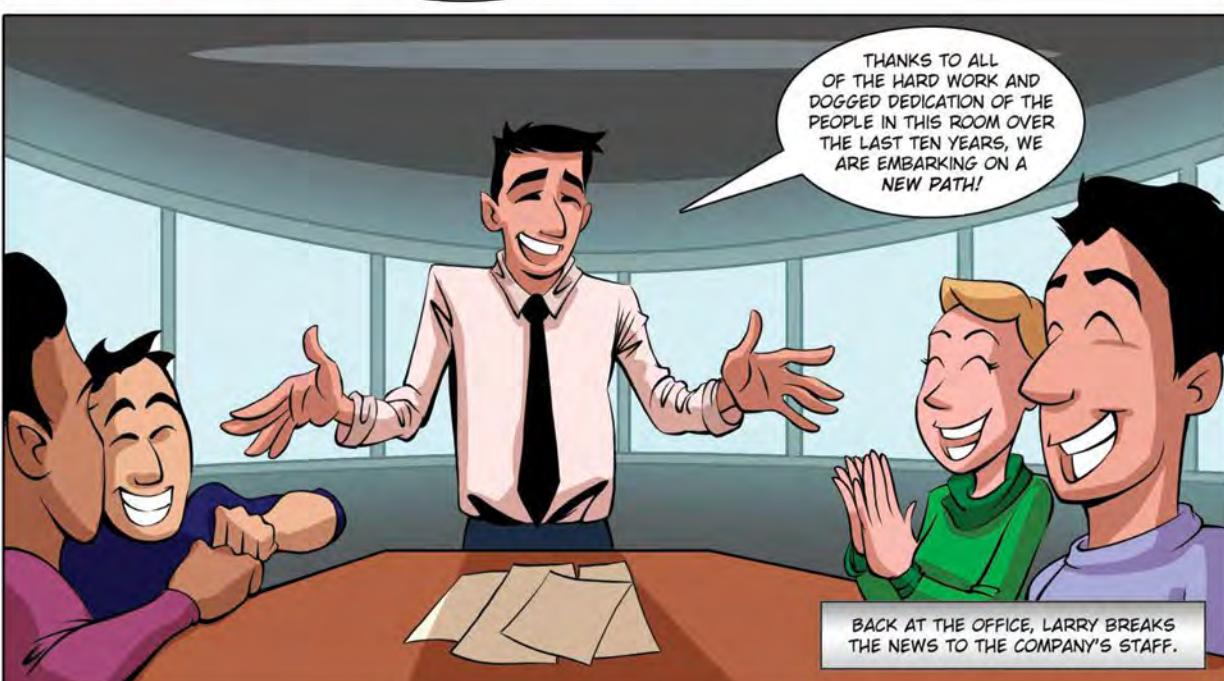
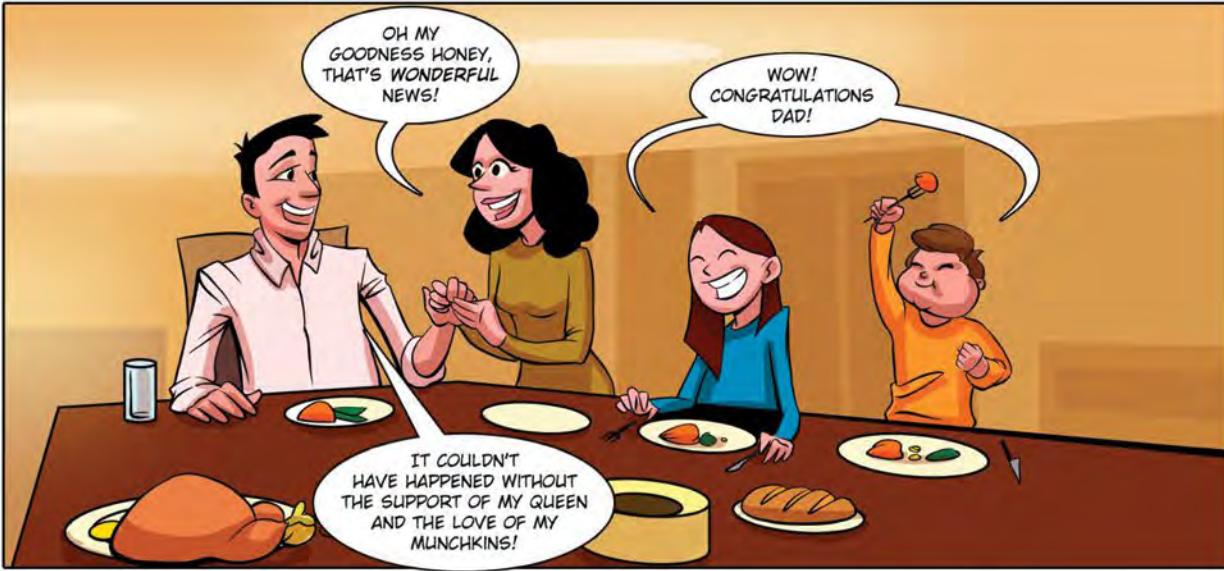
YOU HAVE ANY
MORE BUBBLE
GUM?

4 MONTHS LATER...

GLOBA

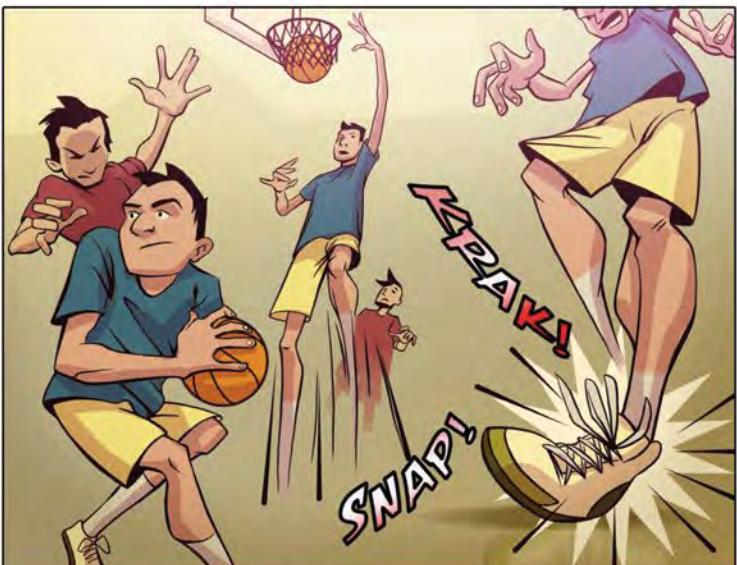
l.COM

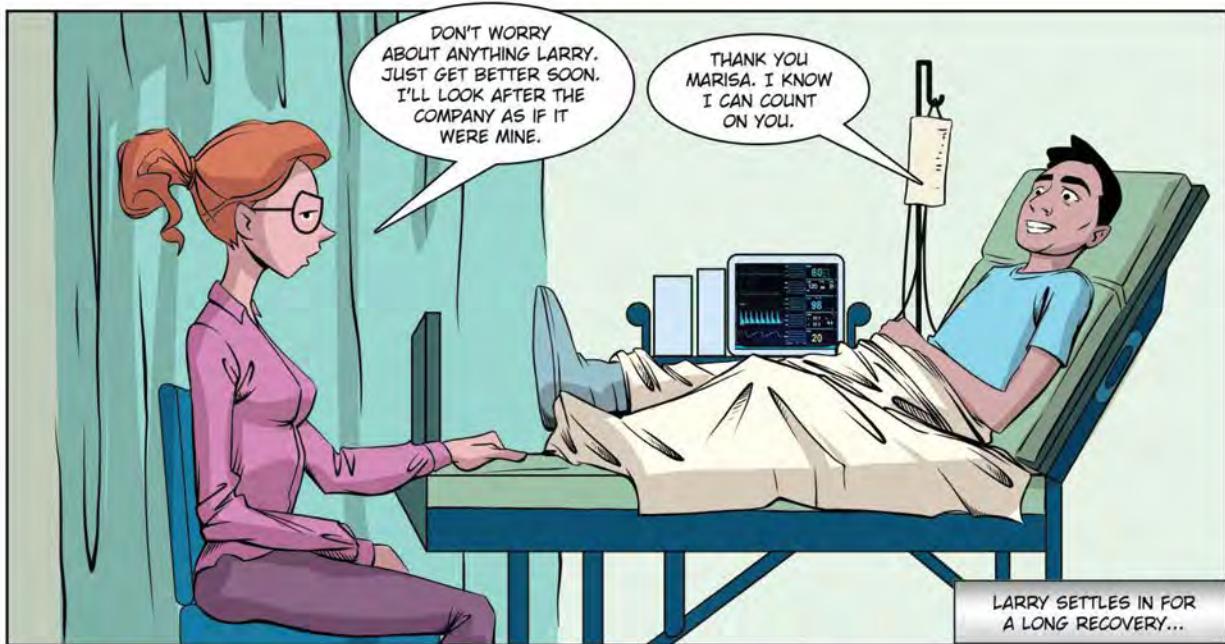
AFTER BUILDING HIS COMPANY THROUGH TEN YEARS OF BLOOD, SWEAT AND TEARS,
ENTREPRENEUR LARRY JONES SIGNS A DEAL WITH A LARGE GLOBAL STRATEGIC PARTNER.





REVENUE WAS UP AND THINGS
WERE GOING GREAT UNTIL ONE
DAY ON THE BASKETBALL COURT...





This letter serves to inform you that my firm has been retained by Lighthouse Imaging in a matter that is of grave concern to your company. Please call me at [REDACTED] convenience.



MEANWHILE, THE MYSTERIOUS "GANG OF 5" PLOT BEHIND LARRY'S BACK...



THE BILLS KEEP PILING UP...



MEANWHILE,
ELSEWHERE...

- ☒ Start a new company, while still on payroll
- ☒ Copy intellectual property files (including presentations)
- ☒ Download client list
- ☒ Call clients anonymously, alleging fraud
- ☒ Research other ways to build new company on their dime

NEXT MORNING...

I'D LIKE TO
RESPECTFULLY REQUEST
THAT EVERYONE READ AND
SIGN THIS NON-COMPETE
AGREEMENT.

THIS IS KEY TO
MAINTAINING YOUR
POSITION HERE AT
THE COMPANY.



SEVERAL MINUTES LATER, EVERYONE HAS
SIGNED EXCEPT FOR FIVE EMPLOYEES...



LARRY TAKES NOTICE...

DID NOT SIGN:

Ms Marisa Mackenzie (Field Manager)
Ms Rachael Rich (Exec Admin Assistant)
Mr Max Burgess (Sales Exec)
Mr Stephen Barnes (I.T. Specialist)
Mr Clarence Kohara (Human Resources)

LARRY, YOU KNOW
MY LAWYER INSISTS THAT
SHE READ ANY AGREEMENT
BEFORE I SIGN IT. LEAVE
IT WITH ME.

OH MR JONES,
WHAT WOULD I KNOW
ABOUT ANY OF THAT? I'LL
HAVE MY DAD LOOK IT
OVER.

C'MON LARRY,
YOU'RE NOT GOING TO PIN
ALL OF US DOWN FOR ALL
THOSE YEARS. I CAN'T
PREDICT WHAT THE FUTURE
WILL BRING.

YOU'RE PAINTING WITH
TOO WIDE A BRUSH. THAT'S LIKE
ASKING A BANKER NOT TO BE A
BANKER ANYMORE WHEN SHE
SWITCHES JOBS.

WHAT'S
GOING ON
HERE?

YOU HAVE
NO IDEA WHAT
IS GOING ON RIGHT
UNDER YOUR
NOSE.

YOU NEED
TO LEAVE RIGHT
AWAY!

LARRY CATCHES THE IT DIRECTOR DOWN-
LOADING DATA ON A SMALL HARD DRIVE.



AFTER RESEARCHING THE ILLICIT ACTIVITIES OF THE "GANG OF 5" OVER THE NEXT 6 MONTHS, LARRY FIRES ALL OF THEM AND CONTEMPLATES LEGAL ACTION.





AS YEARS GO BY, THE HACKS SUBSIDE THE FARTHER LARRY'S BUSINESS ACTIVITIES TAKE HIM AWAY FROM THE FIELD OF MARKETING.



10 YEARS AFTER THE CLOSING OF HIS COMPANY, LARRY FINALLY DECIDES TO RE-ENTER THE MARKETING FIELD...



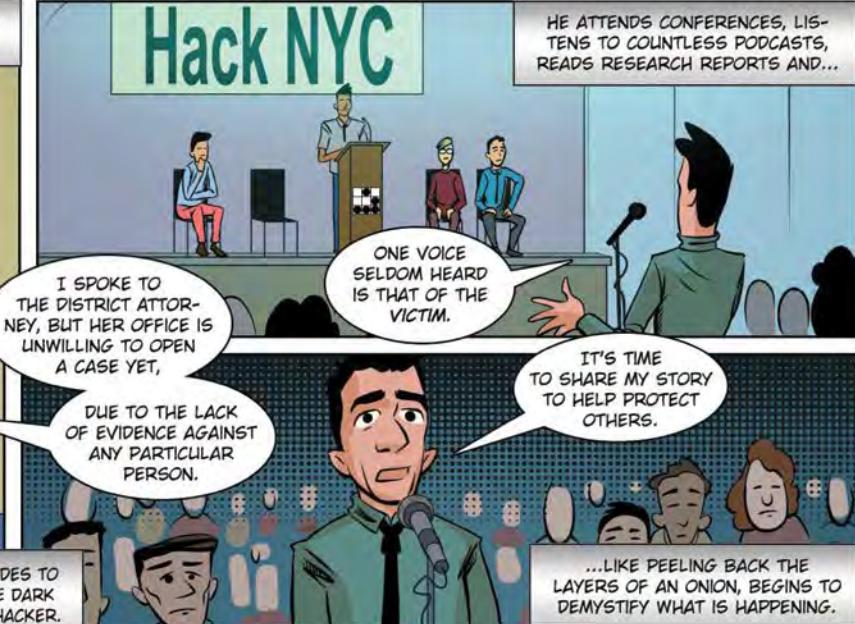
HERE ARE YOUR DOCUMENTS BACK MR JONES.

AFTER ANALYZING THE DETAILS OF THESE COMPUTER AND PHONE SCREEN SHOTS, IT LOOKS LIKE YOU ARE UNDER A HEAVILY ORCHESTRATED CYBER ATTACK.

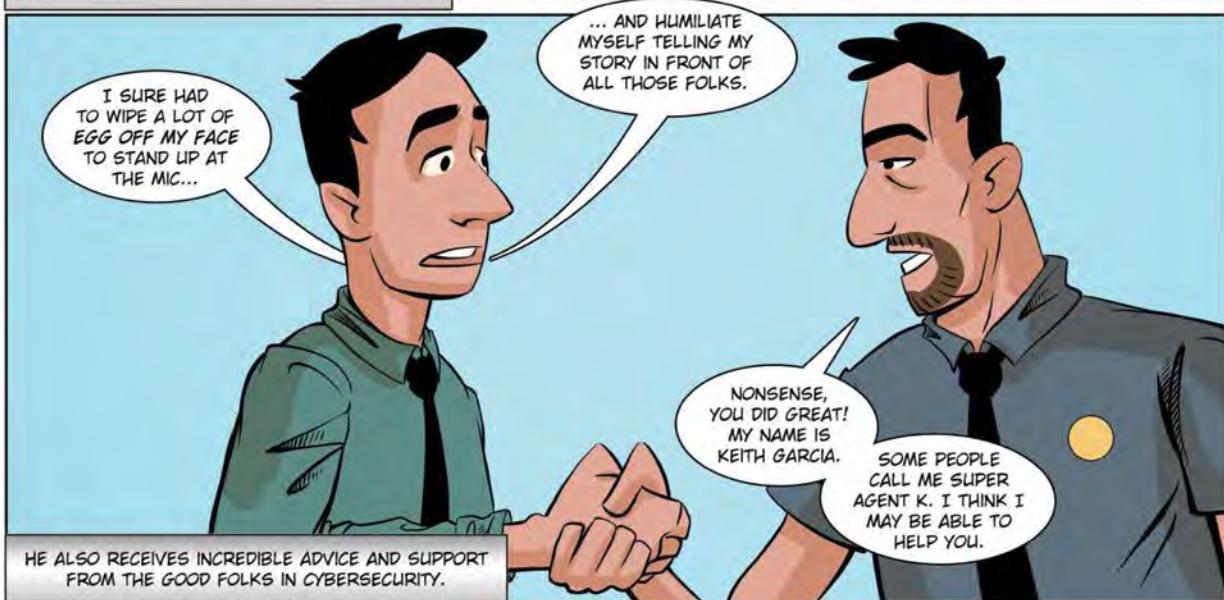
OH, WOW! FEELS GREAT TO HAVE SOMEONE IN YOUR SHOES THINK THAT IT MAKES SENSE. WHAT DO WE DO NEXT?



SEVERAL WEEKS LATER, LARRY GETS A FOLLOW UP VISIT FROM THE FBI...



UNABLE TO RECEIVE JUSTICE, LARRY DECIDES TO LEARN EVERYTHING HE COULD ABOUT THE DARK WORLD OF HACKING TO HELP CATCH THE HACKER.



SUPER AGENT K HAS ALWAYS HAD A PASSION FOR LAW ENFORCEMENT.

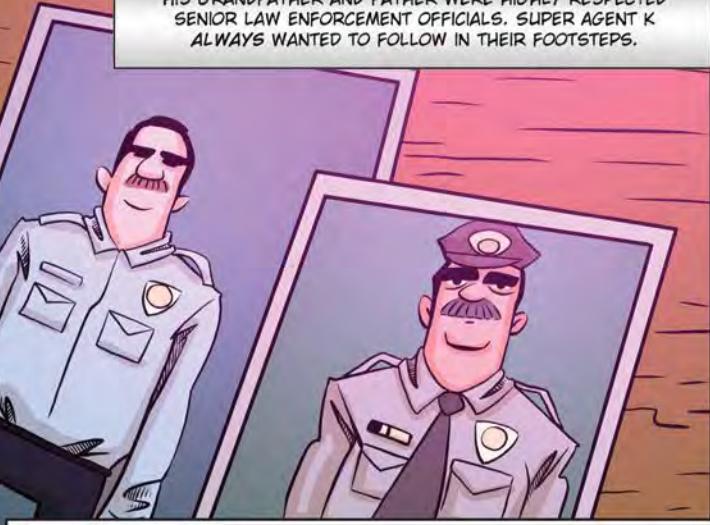
HIS GRANDFATHER AND FATHER WERE HIGHLY RESPECTED SENIOR LAW ENFORCEMENT OFFICIALS. SUPER AGENT K ALWAYS WANTED TO FOLLOW IN THEIR FOOTSTEPS.



WHY? HE WAS SEVERELY BULLIED THROUGHOUT HIS MIDDLE AND HIGH SCHOOL YEARS AND NEVER FOUGHT BACK.



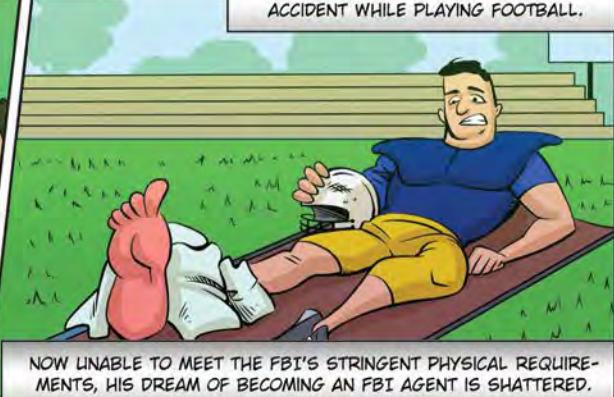
THE TRAINING IMBLED KEITH WITH A SENSE OF POWER AND SELF-RELIANCE, WHICH HE USED TO DEFEAT THE BULLIES. THAT WAS HIS FIRST TASTE OF JUSTICE.



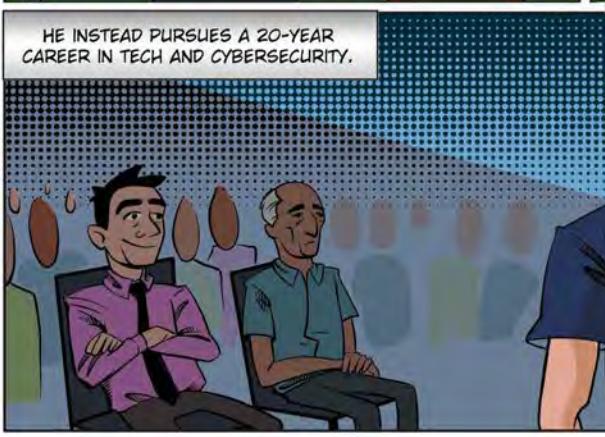
UNTIL ONE DAY HIS UNCLE, A MARINE TRAINER, PUT HIM THROUGH A MINIATURE BOOT CAMP TO STRENGTHEN YOUNG KEITH'S BODY AND MIND.



LATER ON, HE SUFFERED A TERRIBLE ACCIDENT WHILE PLAYING FOOTBALL.



NOW UNABLE TO MEET THE FBI'S STRINGENT PHYSICAL REQUIREMENTS, HIS DREAM OF BECOMING AN FBI AGENT IS SHATTERED.



HE INSTEAD PURSUES A 20-YEAR CAREER IN TECH AND CYBERSECURITY.



LARRY AND SUPER AGENT K BECOME FAST FRIENDS WITH A UNIFIED MISSION: TO PROTECT AND DEFEND OTHERS FROM THE EXPERIENCES THEY HAD!

SUPER AGENT K AND LARRY ARE INVITED TO A CYBERSECURITY CONFERENCE HOSTED AT THE NEXT GEN INSTITUTE.

TOP SECRET
NEXT GEN

MY NAME IS
TARA BIGHT. WELCOME!
YOU'RE IN FOR A
TREAT!

WHILE ON A TOUR OF CUTTING-EDGE CYBER SECURITY TOOLS, THEY DETOUR TO A TOP-SECRET LAB ON THE SECOND FLOOR OF THE FACILITY.

THERE THEY SEE WHAT WOULD SOON CHANGE THE WORLD...

THERE ARE TWO OPERATIONAL MODES:

PROTOPLASM MODE ALLOWS YOU TO SEE VARIOUS CLASSES OF HACKERS AND CYBER CRIMINALS AS THEY ARE IN THE "REAL" WORLD.

THE CREATURES YOU SEE AMONG THOSE PEOPLE ARE DIFFERENT SPECIES OF CYBER SCHEMERS.

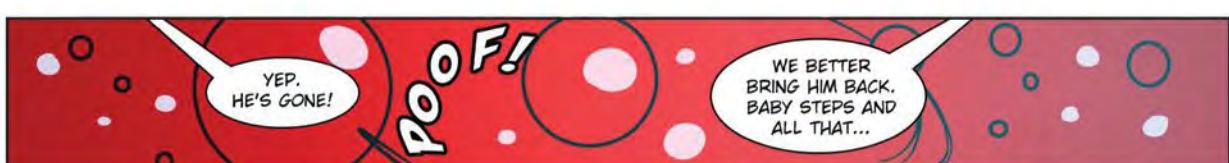
SUPER VIRTUAL-REALITY GLASSES!

WHOAAA!
SO WHY NOT JUST ARREST THE BAD GUYS WHILE THEY'RE ALL HERE?

THIS CONFERENCE IS NEUTRAL GROUND.

ONLY PLACE WHERE WHITE & BLACK HAT HACKERS CAN MEET WITHOUT RUN-INS WITH THE LAW.





the cyberwire

I HEAR THE CYBERHEROES
GET THEIR NEWS FROM
THE CYBERWIRE!

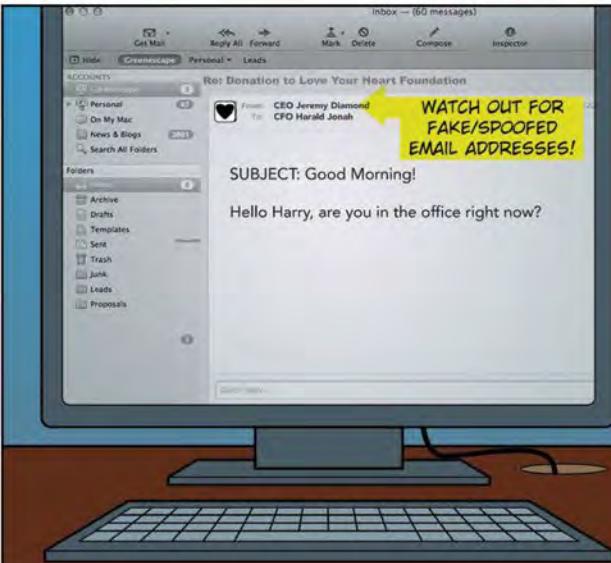
YEAH, BRIEFINGS,
PODCASTS, EVEN
ALEXA. YOU SHOULD
CHECK IT OUT!

SUBSCRIBE TODAY!
WWW.THECYBERWIRE.COM

THE CYBERWIRE IS PROUD TO BE A MEDIA
PARTNER WITH THE CYBERHERO ADVENTURES.

PART 2: REELING-IN THE PHISHER!

IN THE FIRST OF MANY CYBER HERO ADVENTURES, WE'LL FOLLOW THE REAL-LIFE STORY OF A COMMON CLASS OF HACK, AND THE UNSUNG HEROES WHO WOULD WORK TIRELESSLY TO PROTECT AND DEFEND THE VICTIMS AND BRING DOWN THE PERPETRATORS.



Heart for Life

MISSPELLING! READ THE URL CAREFULLY!

NO SECURITY CERTIFICATE!

HOME | NEWS | ABOUT US | CAMPAIGNS | SUPPORT | PUBLICATIONS | SHOP | CONTACT US

Love Your Heart!

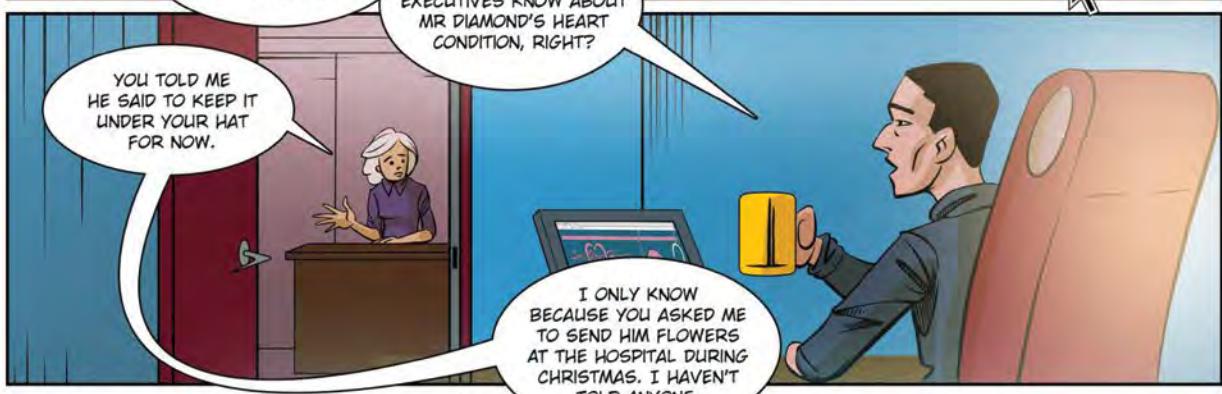
No more stents or pacemakers!

GERALDINE,
NOT MANY PEOPLE
BESIDES YOU AND ME,
VICTOR CHAN...

... AND MAYBE A
COUPLE OF OTHER
EXECUTIVES KNOW ABOUT
MR DIAMOND'S HEART
CONDITION, RIGHT?

TO MAKE A DONATION:
[DOWNLOAD BANK DEPOSIT FORM HERE](#)

CLICK!



WIRE TRANSFER INSTRUCTIONS

Please include the following information on all wire transfers to our bank account:

REMIT TO BANK NAME	
BANK ADDRESS	
ABA NUMBER / SWIFT NUMBER	/
ACCOUNT NUMBER	
FOR CREDIT TO	
FOR FURTHER CREDIT TO	
ACCOUNT NUMBER	
REFERENCE (EX: INVOICE NUMBER)	
AMOUNT AND CURRENCY	

Please contact our Account Manager, _____, or by email at _____ should you encounter any difficulties.

THANK YOU!

BE CAREFUL WHAT YOU PUT ONLINE
BECAUSE IT MAY BE USED AGAINST
YOU AND IT WILL BE "PUBLIC AND PER-
MANENT" ACCORDING TO RICHARD
GUERRY, FOUNDER OF THE INSTITUTE
FOR RESPONSIBLE ONLINE AND CELL-
PHONE COMMUNICATIONS.

Get Mail Reply All Forward Mark Delete Compose Inspector

Greenscape Personal Leads

Re: Donation to Love Your Heart Foundation

From: CEO Jeremy Diamond
CFO Harald Jonah

Fill out and transfer the funds as soon as possible. I want to announce my contribution during lunch. Very important to do it before lunch.

From: CFO Harald Jonah
CEO Jeremy Diamond

What's the nature of this fundraiser?

From: CEO Jeremy Diamond
CFO Harald Jonah

All the information is included in my previous message. I need you to transfer the funds as soon as possible.

5 Quick reply...

From: CFO Harald Jonah
To: CEO Jeremy Diamond

I'm on it!

1 Quick reply...



BE CAREFUL...
EVEN SOCIAL MEDIA
PROFILES CAN BE FAKE!

YES, I'VE
CHECKED THEM OUT.
THEY HAVE A SOCIAL
MEDIA PRESENCE AND
SUCH, ALL GOOD!

I COMPLETED THE
FORM AND SIGNED THE
PAPERWORK. I AUTHO-
RIZE YOU TO EXECUTE
THIS RIGHT AWAY!

WELL, THERE'S
YOUR SIGNATURE.
ALL SEEMS TO BE
IN ORDER. OKAY,
WILL DO.

I JUST
NEED TO WRAP UP
THIS ONE TASK AND
I'LL GET RIGHT
ON IT.

YOU'RE THE
BEST! I HAVE TO
GO! I'M LATE FOR
AN IMPORTANT
MEETING.

PLEASE, LET
ME KNOW WHEN
THIS IS DONE.

IT'LL
BE DONE IN
LESS THAN 15
MINUTES.

AND
C. E. O. JEREMY
DIAMOND THANKS YOU
WITH EVERY BEAT OF
HIS HEART!

Abigail Arnold
Accounts Payable



Inbox — (60 messages)

Get Mail Reply All Forward Mark Delete Compose Inspector

Greenscape Personal Leads

Re: Donation to Love Your Heart Foundation

From: Abigail Arnold, Accounting
To: CFO Harald Jonah, CEO Jeremy Diamond

Subject: Task Completed

Per your instructions and authorization in regards to Mr Diamond's request. Here is the confirmation number.

TD Ameritrade Wire Tran:

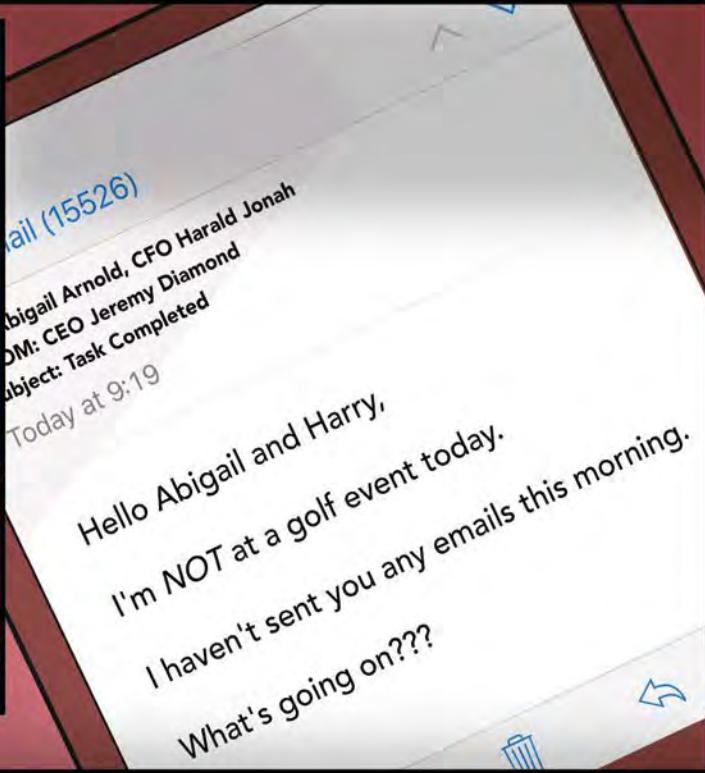
From: account no: *****

To: account: *****7521

Re: Love Your Heart Fundraiser

Amount: \$50,000.00 US

TEN MINUTES LATER...





I'M
GOING TO BE
FIRED!

WHAT
AM I GOING
TO DO?

CFO HARALD JONAH DECIDES TO CALL
HIS FRIEND, CYBER SECURITY
SPECIALIST GEORGE ANTONIOU, PH.D.

PPPPPIIING!

CYBERHEROES.
DR G SPEAKING.

DR G! OH
THANK GOODNESS!
IT'S HARALD JONAH.
I'VE MADE A BIG
MISTAKE!

AFTER SWALLOWING HIS PRIDE,
CFO HARALD JONAH EXPLAINS
EXACTLY WHAT HAPPENED.

OK HARRY,
DON'T PANIC YET.
FORWARD ME A
COPY OF THE ORIGINAL
EMAIL. I'LL SEE IF I CAN
TRACK DOWN THE
PERPETRATOR.

DR. G IMMEDIATELY FINDS THE RED FLAG:
A WELL-DISGUISED FAKE EMAIL ADDRESS. SO
APPARENT TO THOSE IN-THE-KNOW, WHO LOOK A
LITTLE DEEPER, AT THE ACTUAL EMAIL ADDRESS.

Get Mail Reply All Forward Mark Delete Compose Hide Greenescape Personal Leads

Re: Donation to Love Your Heart Foundation

From: CEO Jeremy Diamond
To: Jeremy Diamond
jeremydiamond8298@aol.com

SUBJE

Hello H

FAKE EMAIL ADDRESS!

Add to contacts: Emails

PINPOINT.
GARCIA HERE!

TOP OF THE
MORNING SUPER K,
THIS IS DR G. I'VE GOT
A TRICKY ONE FOR YOU
HERE... A WHALING
ATTACK!

Pinpoint
cybersecurity

SUPER AGENT K SOAKS
IN THE ENTIRE SITUATION.

WELL DR G, THE
ONLY THING HE'LL BE
ABLE TO DO RIGHT NOW
IS TO CONTACT THE
FOREIGN BANK AND PUT
A FREEZE ON THOSE
ASSETS.

THE THIEVES WON'T
BE ABLE TO WITHDRAW
THE MONEY BUT THE COMPANY
ALSO WON'T BE ABLE TO
RECOVER THE FUNDS UNTIL
THE CASE IS SOLVED, MAYBE IN FEW
YEARS OR MANY YEARS.
UNLESS...

I'M ALL
EARS!

...UNLESS
WE TRAP
THEM!
I'LL
CALL THE
CYBERHERO!

CYBERHEROES LARRY JONES, DR G, AND SUPER AGENT K UNITE BACK AT THE LAB. A COUNTER ATTACK IS PUT INTO ACTION!

Powered by
the CyberWire

THIS EMAIL
LOOKS JUST ABOUT
RIGHT. WE'LL SEE IF WE
GET ANY BITES BACK
FROM THE PHISHER.

I'M
READY TO
SET THE
TRAP!

To: CEO Jeremy Diamond
 CC: Abigail Arnold
 Subject: Additional Funds for Love Your Heart Foundation

Hello Mr. Diamond,

I hope your morning on the links has refilled your tanks. Jane showed up this morning with a new perfume, whew! My allergies are on code red! But I digress...

Per your request, I wire-transferred \$50,000 to account number 92-6937739. As I was doing that, I stumbled on your memorandum regarding doubling the amount of donations to heart disease research charities as a company policy for the new year.

Our protocol dictates that you "sign off" on our secure website by entering pin [xz19lo] to authorize the extra \$50K. I'm providing the details here for your convenience, since I know you're at the event and might not have it handy.

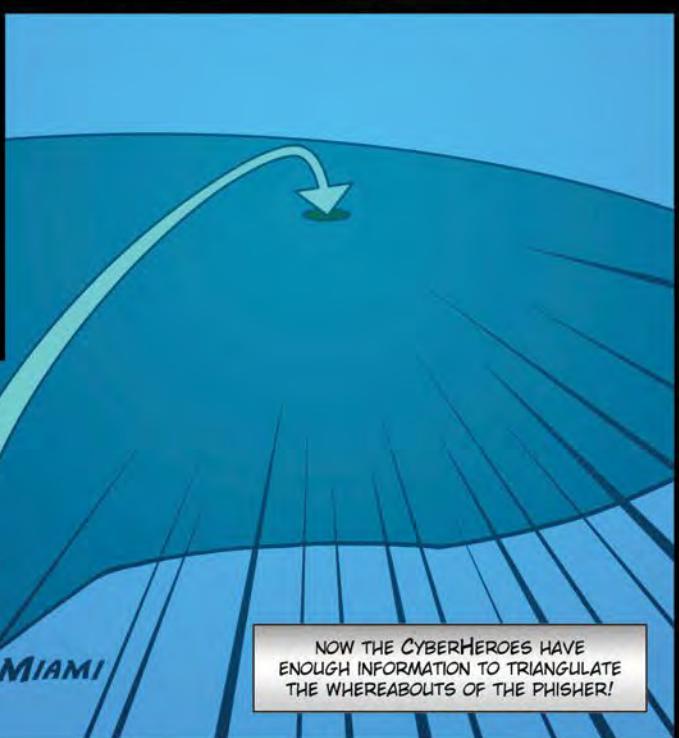
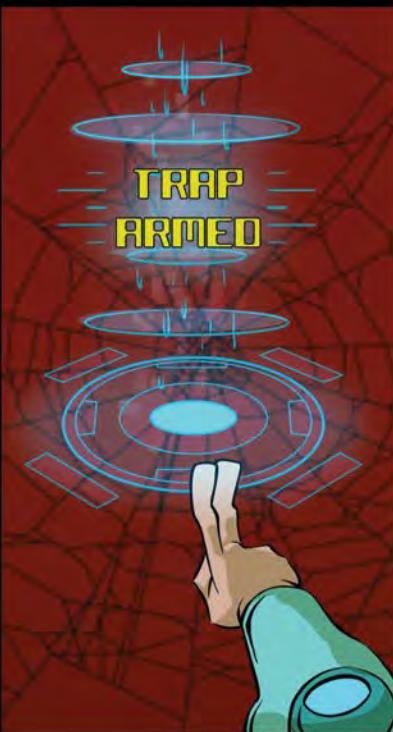
Arrow Bank
 Acct No: 6070255747179
 Routing: 092707912
 u/n: TheSquarePointGroup (case sensitive)
 p/w: playsD3ADtH3Pr1nt3rD03S

If you have any trouble entering the code, try lower case first then all caps. If you still have trouble, email or call me and I will assist you. Once that's done, Abigail will wire-transfer the extra funds.

Let me know if you need anything else. See you bright and early.

-Harald





MEANWHILE, BACK IN
THE DARK WEB...



PHISHING IS THE MOST COMMON TYPE OF ONLINE SCAM. IT REFERS TO ANY ATTACK BY WHICH FRAUDSTERS IMPERSONATE A LEGITIMATE COMPANY AND ATTEMPT TO STEAL PERSONAL INFORMATION OR LOGIN CREDENTIALS. THOSE EMAILS FREQUENTLY USE THREATS AND A SENSE OF URGENCY TO SCARE USERS INTO DOING THE ATTACKERS' BIDDING.



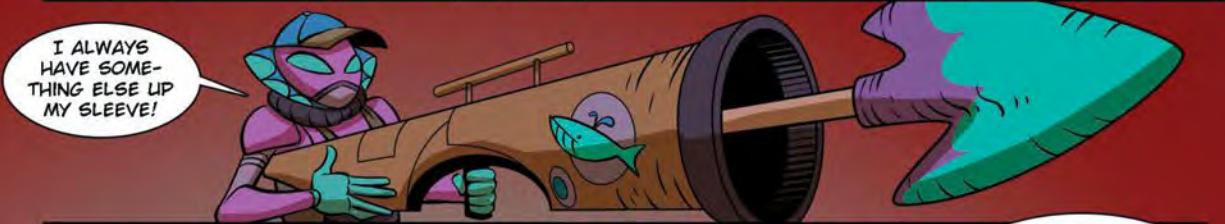
IN SPEAR PHISHING SCAMS, FRAUDSTERS CUSTOMIZE THEIR ATTACK EMAILS WITH THE TARGET'S NAME, POSITION, COMPANY, WORK PHONE NUMBER AND OTHER INFORMATION IN AN ATTEMPT TO TRICK THE RECIPIENT INTO BELIEVING THAT THEY HAVE A CONNECTION WITH THE SENDER.



THE COMBINATION OF GREED
AND CARELESSNESS CLOSED
THE CURTAIN FOR THE PHISHER!



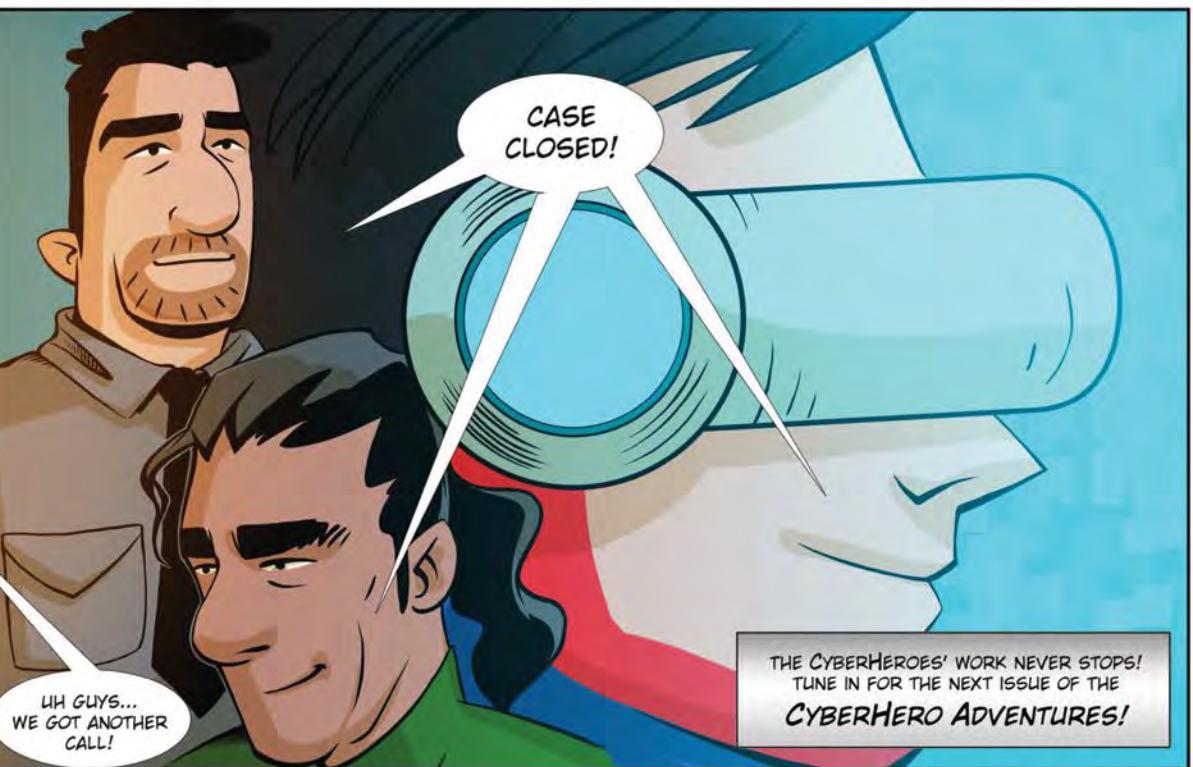
SPEAR PHISHERS CAN TARGET ANYONE IN AN ORGANIZATION, EVEN TOP EXECUTIVES. THAT'S THE LOGIC BEHIND A "WHALING" ATTACK, WHERE FRAUDSTERS ATTEMPT TO HARPOON AN EXECUTIVE AND STEAL THEIR LOGIN CREDENTIALS.



THE CYBERHERO "UNMASKS" THE PHISHER BY DRAINING HER MEMORY BANKS AND COLLECTING DATA THAT WILL POSITIVELY IDENTIFY HER IN THE REAL WORLD!



WORKING WITH FEDERAL AND LOCAL LAW ENFORCEMENT, THE CYBERHEROES ARE ABLE TO TRACK THE SUSPECT AND MAKE AN ARREST!



Open Source Intelligence (OSINT) on all things CyberSecurity

**The #1 Source of Multi-Platform
InfoSec Information**



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www.cyberdefensenewswire.com

www.cyberdefensemagazine.com

MEET THE CYBER VILLAINS OF THE DARK WEB!



AND BEWARE... THEY LURK IN YOUR COMPUTER, NETWORK, SMARTPHONE, CAR, WEBCAM, THERMOSTAT, BABY MONITOR... EVEN YOUR VACUUM CLEANER! THEY LIVE IN A PLACE WHERE EVEN GOOGLE WON'T TREAD...

THE DARK WEB!

IVAN STEALS YOUR NAME, DATE OF BIRTH, SOCIAL SECURITY NUMBER, DRIVER'S LICENSE NUMBER, BANK ACCOUNT AND CREDIT CARD NUMBERS, PIN NUMBERS, ELECTRONIC SIGNATURES, FINGERPRINTS, AND PASSWORDS... ALL IN AN EFFORT TO BECOME YOU!

AT LEAST FOR THE PURPOSES OF STEALING YOUR MONEY AND APPLYING FOR LOANS CREDIT CARDS IN YOU'LL TYPICALLY A VARIETY OF

- RUMMAGING GARBAGE FOR PERSONAL DOCUMENTS AND PHONES.

- STEALING YOUR CREDIT CARDS, CARDS, PASSPORTS AND TOKENS.
- GUESSING COMMON QUESTIONS SUCH AS: NAME?", "FIRST CAR "FIRST PET'S

- SKIMMING CREDIT CARDS USING HAND-HELD CARD READERS.

YOUR FIND IVAN AT
ILLICIT ACTIVITIES:
THROUGH YOUR UN-SHREDDED
OR OLD HARD DRIVES

MAIL TO OBTAIN
IDENTIFICATION AUTHENTICATION

KNOWLEDGE
"MOTHER'S MAIDEN
MODEL?" OR
NAME?"

INFORMATION FROM

TY OR
HORSE
GRAMS.

- HACKING COMPUTER BASES TO OBTAIN LARGE QUANTITIES.

- BRUTE-FORCE WORDS.

- BROWSING SITES FOR PER- BY USERS.

- DIVERTING IN ORDER TO OBTAIN PERSONAL INFORMATION AND CREDIT CARDS, BILLING STATEMENTS, OR NEW ACCOUNTS MENTS OPENED THIEVES IN THE

- USING 'CONTACTLESS' CREDIT CARD READERS TO ACQUIRE DATA WIRELESSLY.

- DISCREETLY WATCHING OR HEARING OTHERS PROVIDING VALUABLE PERSONAL INFORMATION (SHOULDER-SURFING).

- STEALING PERSONAL INFORMATION FROM COMPUTERS USING BREACHES IN BROWSER SECUR- MALWARE SUCH AS ASTROJAN KEYSTROKE LOGGING PRO-

- PUTER NETWORKS AND DATA- PERSONAL DATA, OFTEN IN

- ATTACKING WEAK PASS-

SOCIAL NETWORKING
SONAL DETAILS PUBLISHED

VICTIMS' EMAIL OR MAIL OBTAIN PERSONAL INFORMATION DENTIALS SUCH AS CREDIT AND BANK/CREDIT CARD TO DELAY THE DISCOVERY OF AND CREDIT AGRE- BY THE IDENTITY VICTIMS' NAMES.

IVAN THE IDENTITY THIEF



INTERPOL
case #
F-34937H-75U



WANNACRY IS AN INSIDIOUS FORM OF RANSOMWARE CRYPTOWORM THAT ATTACKED THE MICROSOFT WINDOWS OPERATING SYSTEMS OF INDIVIDUALS AND BUSINESSES AROUND THE WORLD BY ENCRYPTING THE USER'S DATA (LOCKING THEM OUT OF THEIR COMPUTER) AND DEMANDING RANSOM IN DIFFICULT-TO-TRACE DIGITAL CURRENCIES SUCH AS BITCOIN TO UNLOCK IT, MAKING APPREHENDING AND PROSECUTING THE PERPETRATORS DIFFICULT. THE ATTACK WAS UNPRECEDENTED IN SCALE, INFECTING MORE THAN 230,000 COMPUTERS IN OVER 150 COUNTRIES.

RANSOMWARE ATTACKS ARE TYPICALLY CARRIED OUT USING A TROJAN HORSE DISGUISED AS A LEGITIMATE FILE. THE USER IS DUPED INTO DOWNLOADING OR OPENING IT IN AN EMAIL ATTACHMENT. HOWEVER, THE WANNACRY WORM WAS ABLE TO TRAVEL AUTOMATICALLY BETWEEN COMPUTERS WITHOUT ANY USER INTERACTION.

THE CRIMINALS BEHIND WANNACRY ARE STILL OUT IN THE WORLD, DEVELOPING NEW TRICKS, CODING NEW MALWARE, PLANNING THEIR

NEXT BIG ATTACK!

WILBUR WANNACRY



HALF HUMAN, HALF INSECT, BORIS IS ABLE TO DETECT AND EXPLOIT VULNERABILITIES IN TECH DEVICES TO GAIN UNAUTHORIZED ACCESS PRIVILEGES, COMPROMISE DATA CONFIDENTIALITY AND INTEGRITY, AND WREAK HAVOC ON EVERYTHING HE TOUCHES.

BORIS HAS BEEN CREATING CHAOS FOR A LONG TIME. FOR EXAMPLE, IN 1996, A SOFTWARE BUG IN ITS GUIDANCE COMPUTER SOFTWARE FORCED THE EUROPEAN SPACE AGENCY TO DESTROY A \$1 BILLION ARIANE 5 PROTOTYPE ROCKET LESS THAN A MINUTE AFTER LAUNCH.

BORIS THE BUGGER



FRAUDSTER, SCAMMER, CONFIDENCE ARTIST, GRIFTER, HUSTLER, CHAMELEON. HE GOES BY MANY NAMES. THEY ALL ADD UP TO ONE THING: SONNY THE SOCIAL ENGINEER IS A MASTER MANIPULATOR OF HUMAN BEHAVIOR. HIS GAME IS TO TRICK YOU INTO BELIEVING WHATEVER HE WANTS IN ORDER TO STEAL YOUR MOST VALUABLE AND PERSONAL INFORMATION.

HIS WEAPONS ARE BASED ON EMOTIONAL INTELLIGENCE. HE DOES NOT HESITATE TO TAKE ADVANTAGE OF THE MOST EXCITING OR SAD MOMENTS. HE WIELDS FEAR LIKE A WHIP. HE PREYS ON ANY PERCEIVED WEAKNESS TO BRING DOWN HIS TARGETS AND ENRICH HIMSELF IN THE PROCESS.

SONNY THE SOCIAL ENGINEER



THE **RAT** IS AN INSIDIOUS CREATURE WHO IS VERY CLEVER AND STEALTHY. PAY NO ATTENTION TO HIS HORSE-LIKE BODY OR HIS GARNERLY RAT FACE... BUT TO THE LENGTH OF HIS TAIL. IT'S SINEWY AND ABLE TO INSERT ITSELF, WITHOUT DETECTION, INTO ANY DEVICE ON THE INTERNET. MOST-COMMONLY IN

PARTNERSHIP WITH THE PHISHER, A SIMPLE CLICK ON A LINK IN AN OFFICIAL-LOOKING EMAIL LETS THE **RAT** AND HIS CREW INTO YOUR LIFE TO TURN IT UPSIDE-DOWN. ONCE INSIDE, HE COMPLETELY TAKES CONTROL OF YOUR ONLINE EXISTENCE, WHICH HE CAN THEN MANIPULATE, DESTROY, AND DELETE.

RANDALL R.A.T.



THIS SICKLY CREATURE SPREADS ITS DISEASE AND CONTAMINATES EVERYTHING IT TOUCHES. A COMPUTER VIRUS IS MALICIOUS SOFTWARE ("MALWARE") THAT REPLICATES ITSELF BY MODIFYING OTHER COMPUTER PROGRAMS AND INSERTING ITS OWN CODE.

VERNAN THE VIRUS TEAMS UP WITH SONNY THE SOCIAL ENGINEER, EMPLOYING A VARIETY OF MECHANISMS AND DECEPTIONS, COMPLEX ANTI-DETECTION STEALTH STRATEGIES TO EVADE ANTIVIRUS SOFTWARE, AND DETAILED KNOWLEDGE OF SECURITY VULNERABILITIES TO INFECT NEW HOSTS AND SPREAD THE DISASTROUS VIRUS. THEY ARE A DANGEROUS DUO INDEED!

CAUSING SYSTEM FAILURE, WASTING COMPUTER RESOURCES, CORRUPTING DATA, AND GREATLY INCREASING MAINTENANCE COSTS, VERNAN CAUSES BILLIONS OF DOLLARS' WORTH OF ECONOMIC DAMAGE EVERY YEAR. THE MOTIVES FOR THESE CRIMES VARY - FROM SEEKING PROFIT TO SENDING A POLITICAL MESSAGE, SABOTAGE OR REVENGE, OR SIMPLY FOR PERSONAL AMUSEMENT.

VERNAN THE VIRUS



THE PHISHER
HUNTS ITS PREY
BY PRETENDING
TO BE
LEGITIMATE
COMMUNICATION
FROM A TRUSTED
COMPANY (OF WHICH
OFTEN THE VICTIM IS A
CUSTOMER) - OR -
FROM THE HIJACKED
IDENTITY OF A FRIEND,
COLLEAGUE, OR FAMILY
MEMBER.

USING ONE OF
MANY RUSES
(USUALLY
INVOLVING SOME
"PROBLEM" WITH THE
ACCOUNT), THE PHISHER
ENCOURAGES THE POTENTIAL
VICTIM TO DIVULGE SENSITIVE
INFORMATION, SUCH AS LOG-IN
IDS, PASSWORDS, PINs,
SOCIAL SECURITY NUMBERS,
ETC.

THIS INFORMATION IS QUICKLY USED TO STEAL
MONEY FROM ACCOUNTS AND TO APPLY FOR
FRAUDULENT LOANS AND CREDIT CARDS. UNDOING
THE DAMAGE CAUSED BY IDENTITY THEFT USUALLY
TAKES MONTHS OF PHONE CALLS, WRITTEN
COMMUNICATION, AND LOTS OF LEGAL AND
FINANCIAL RED TAPE. KNOWING HOW TO SPOT
THE SIGNS OF A PHISHING ATTACK (LOOKING
AT THE SENDER'S ACTUAL EMAIL ADDRESS, FOR
EXAMPLE) CAN BE THE DIFFERENCE BETWEEN
AN ODYSSEY OF FRUSTRATION AND THE
SIMPLE ACTION OF DELETING THE
EMAIL AND BEING DONE WITH IT.

AS A GENERAL RULE, NO LEGITIMATE
COMPANY WILL EVER ASK A
CUSTOMER TO DIVULGE SENSITIVE
INFORMATION VIA EMAIL. WHEN IN
DOUBT, INSTEAD OF CLICKING THE
LINK PROVIDED IN THE EMAIL, TYPE
THE COMPANY'S URL DIRECTLY INTO
YOUR BROWSER OR CALL A
COMPANY

REPRESENTATIVE USING
A KNOWN OR PUBLISHED
PHONE NUMBER INSTEAD OF A PHONE NUMBER
PROVIDED IN THE EMAIL.

PHOEBE THE PHISHER

NOW MEET THE GOOD PEOPLE!



THE CYBERHEROES

DEFENDERS OF THE
DIGITAL UNIVERSE!



LARRY JONES (A.K.A. CYBER HERO) KNEW THAT HE NEEDED HELP TO LEARN ABOUT TECHNOLOGY AND HACKING. THE MOST IMPORTANT THING THAT HE NEEDED TO UNDERSTAND WAS: WHY DO HACKERS DO WHAT THEY DO? AFTER LISTENING AND LEARNING ABOUT HACKING AND CYBER SECURITY FROM THE AMAZING PEOPLE IN LAW ENFORCEMENT, SUCH AS THE FBI, CYBER SECURITY EXPERTS, THE DEPARTMENT OF DEFENSE, THE DEPARTMENT OF HOMELAND SECURITY AND ACADEMIA, LARRY BEGAN TO UNDERSTAND THAT ALMOST ALL OF THE HACKERS WERE ACTUALLY TRYING TO HELP (WHITE HATS) BY PROGRAMMING AND HER DESTINY WAS DEFENDING THE WORLD AGAINST CYBER CRIMINALS (BLACK HATS).

THERE WERE ALSO MANY GREAT PEOPLE WHO WERE THREAT RESEARCHERS WHO DISCOVERED VULNERABILITIES IN COMPUTERS AND CONNECTED DEVICES TO HELP PROTECT US ALL (GREY HATS). LARRY KEPT HEARING THE NAME OF ONE PERSON WHO WAS CONSISTENTLY MENTIONED AS BEING THE BEST HACKER IN THE UNIVERSE: QUEEN JIO. FROM THE MOMENT THAT SHE WAS BORN, HER PARENTS KNEW THAT SHE WAS DESTINED TO BECOME A POWERFUL LEADER AND ROLE MODEL AND TO SHED SUNLIGHT ON A DARK WORLD, SO THEY NAMED HER JIO (AN ANCIENT TERM FOR "SUN"). HER FIRST WORDS WERE: WHO, WHAT, WHERE, WHEN AND MOST IMPORTANTLY...HOW? SHE QUICKLY DISCOVERED COMPUTERS AND SEALED TO SPREAD SUNSHINE ON A DIVERSE AND INCLUSIVE WORLD.

QUEEN JIO

TM



LARRY IS A "REGULAR GUY" WHO IS AN EXPERT AT MARKETING COMMUNICATIONS AND CORPORATE TRAINING. HE RAN A SUCCESSFUL COMPANY THAT WAS SUBSEQUENTLY SOLD TO GLOBALCOMM. EVERYTHING WAS GOING GREAT UNTIL ONE DAY HE RECEIVED A FATEFUL CALL. UNBEKNOWNST TO HIM, ONE OF LARRY'S EXECUTIVES PHONED GLOBALCOMM PRETENDING TO BE A WHISTLE-BLOWER AND SPREAD A RUMOR THAT THERE WAS RAMPANT FRAUD THROUGHOUT LARRY'S COMPANY AND THAT ALL CLIENTS SHOULD STOP ALL COMMUNICATIONS!

LARRY LOST MILLIONS OF DOLLARS AND HIS HOME. HE WAS FORCED TO FIRE ONE HUNDRED EMPLOYEES. ONLY YEARS LATER, LIKE PEELING THE LAYERS OF AN ONION, LARRY BEGAN TO UNDERSTAND THAT HE WAS BEING

VICTIMIZED BY A SERIES OF INSIDER CYBER ATTACKS THAT FUNNELED HIS BUSINESS INTO A SHADOW COMPANY CONTROLLED BY SEVERAL FORMER EXECUTIVES. THEY SPOOFED HIS WEBSITE, RE-DIRECTED CALLS TO THE SHADOW COMPANY AND DESTROYED HIS REPUTATION.

UNABLE TO PROVE HIS CASE AND RECEIVE JUSTICE DUE TO THE DIFFICULTY OF IDENTIFYING THE PLOT AND THE HACKER, LARRY DECIDED TO PIVOT FROM BEING A VICTIM TO BECOMING AN ADVOCATE. HE LEARNED EVERYTHING HE COULD ABOUT CYBER SECURITY. LIKE DOROTHY IN THE WIZARD OF OZ, LARRY MEETS WONDERFUL CYBERHEROES ALONG THE WAY, WHO ARE MISSION-DRIVEN CHARACTERS JOINING HIM ON HIS QUEST TO RAISE AWARENESS OF CYBERCRIME AND TO DEFEND THE DIGITAL UNIVERSE!

LARRY JONES, THE CYBERHERO!

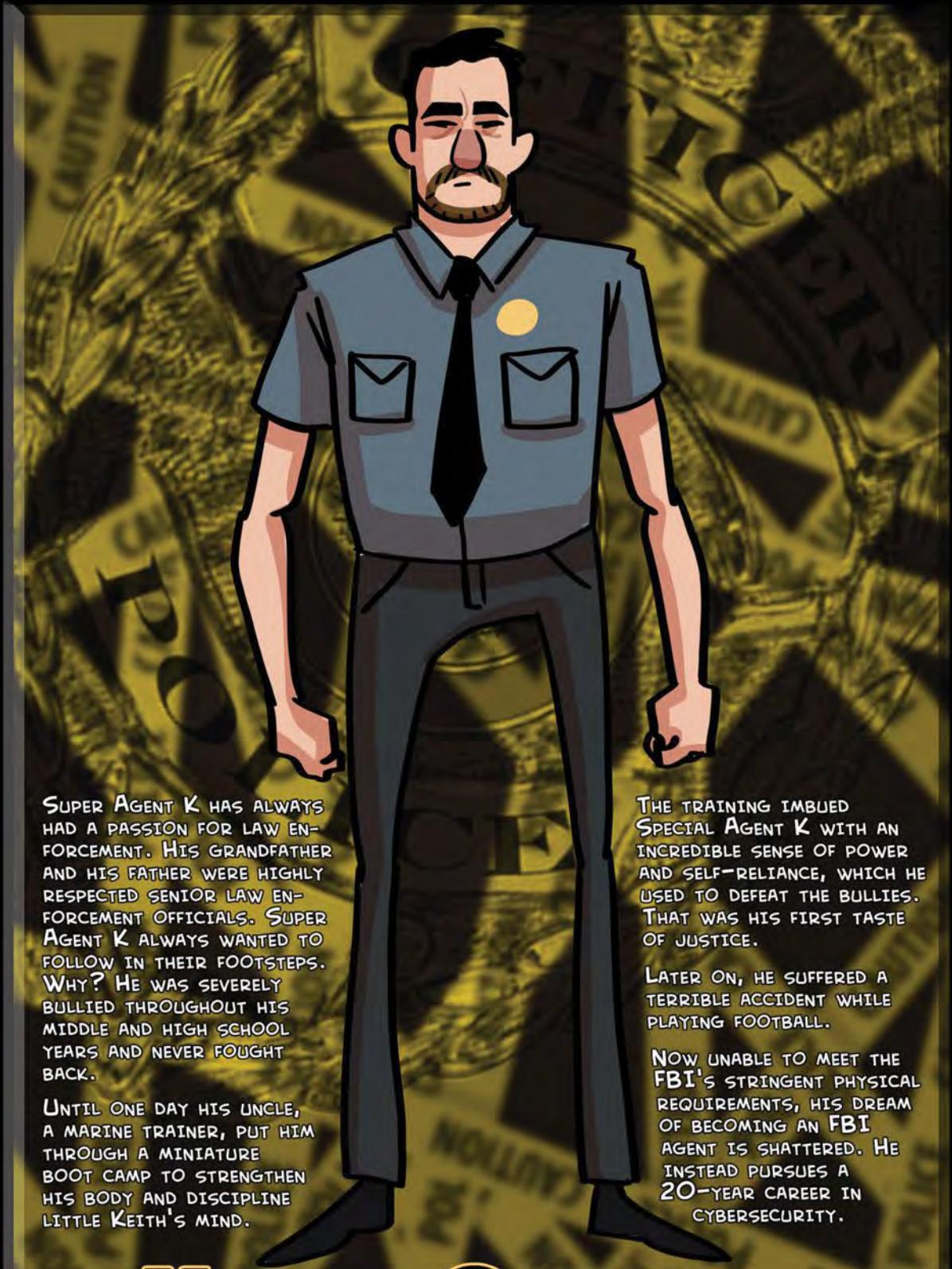


SHE IS ALWAYS READY TO INFORM
USING HER METICULOUSLY
RESEARCHED POWER PRESENTATION
SLIDES THAT PROJECT FROM A
LENS IN HER COSTUME. SHE
SUBDUES HER ADVERSARIES WITH
SLIDES SO DENSE WITH DATA THAT
THEY ARE OVERCOME BY
INSTANT SLUMBER!

THE PRESENTER IS A SKILLED WHITE-HAT
EX-HACKER, WHO NOW SPENDS HER TIME
PROMOTING CYBERSECURITY EDUCATION AND
FACILITATING PARTNERSHIPS BETWEEN
GOVERNMENT, ACADEMIA, AND THE PRIVATE SECTOR
FOCUSED ON SUPPORTING PEOPLE'S ABILITY TO
ADDRESS CURRENT AND FUTURE CYBERSECURITY
ISSUES AND WORKFORCE CHALLENGES THROUGH
STANDARDS AND BEST PRACTICES.

EVEN HER JOB DESCRIPTION PUTS YOU TO SLEEP!

PRESENTER



SUPER AGENT K HAS ALWAYS HAD A PASSION FOR LAW ENFORCEMENT. HIS GRANDFATHER AND HIS FATHER WERE HIGHLY RESPECTED SENIOR LAW ENFORCEMENT OFFICIALS. SUPER AGENT K ALWAYS WANTED TO FOLLOW IN THEIR FOOTSTEPS. WHY? HE WAS SEVERELY BULLIED THROUGHOUT HIS MIDDLE AND HIGH SCHOOL YEARS AND NEVER FOUGHT BACK.

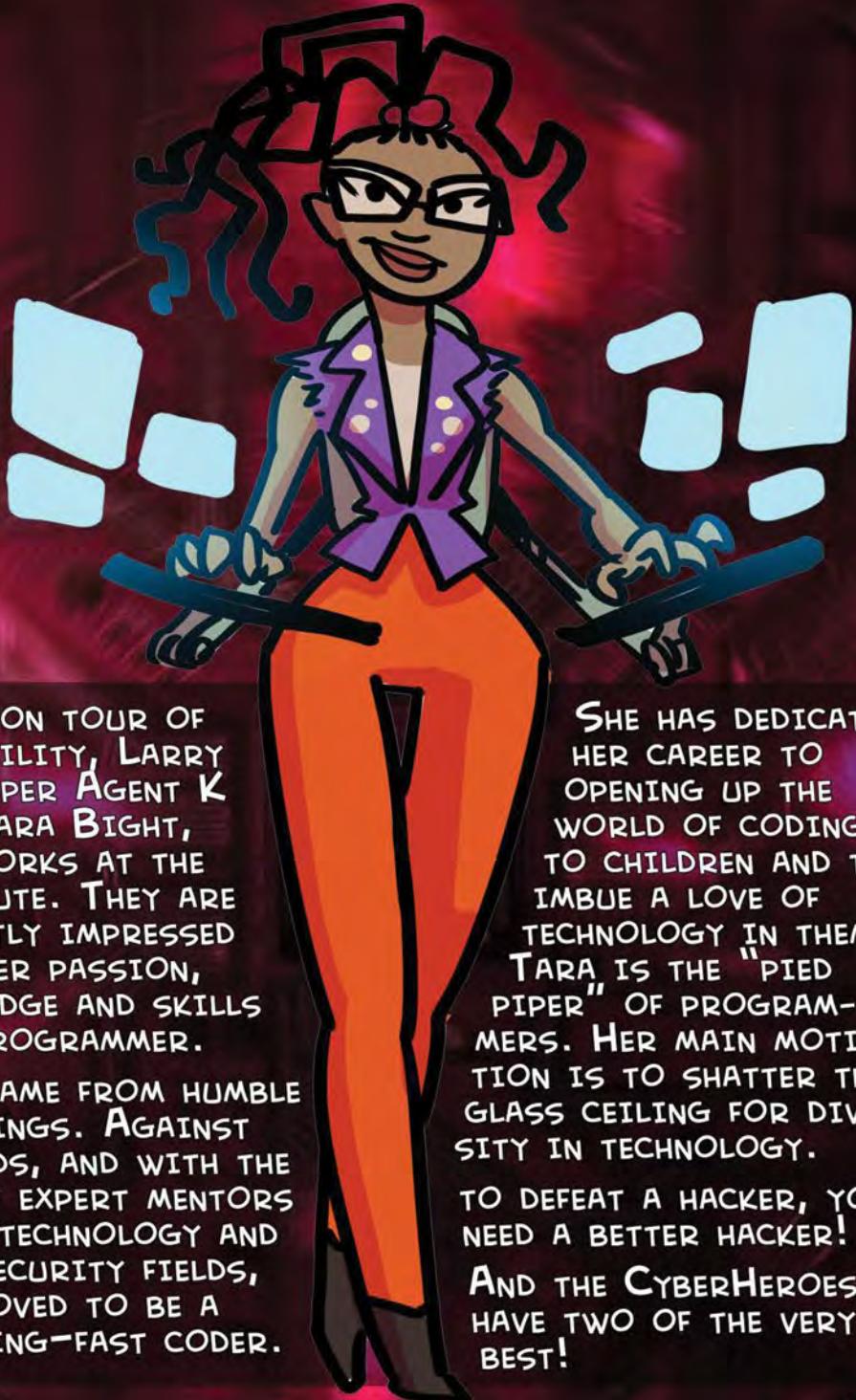
UNTIL ONE DAY HIS UNCLE, A MARINE TRAINER, PUT HIM THROUGH A MINIATURE BOOT CAMP TO STRENGTHEN HIS BODY AND DISCIPLINE LITTLE KEITH'S MIND.

THE TRAINING IMBUED SPECIAL AGENT K WITH AN INCREDIBLE SENSE OF POWER AND SELF-RELIANCE, WHICH HE USED TO DEFEAT THE BULLIES. THAT WAS HIS FIRST TASTE OF JUSTICE.

LATER ON, HE SUFFERED A TERRIBLE ACCIDENT WHILE PLAYING FOOTBALL.

NOW UNABLE TO MEET THE FBI'S STRINGENT PHYSICAL REQUIREMENTS, HIS DREAM OF BECOMING AN FBI AGENT IS SHATTERED. HE INSTEAD PURSUES A 20-YEAR CAREER IN CYBERSECURITY.

KEITH GARCIA SUPER AGENT K



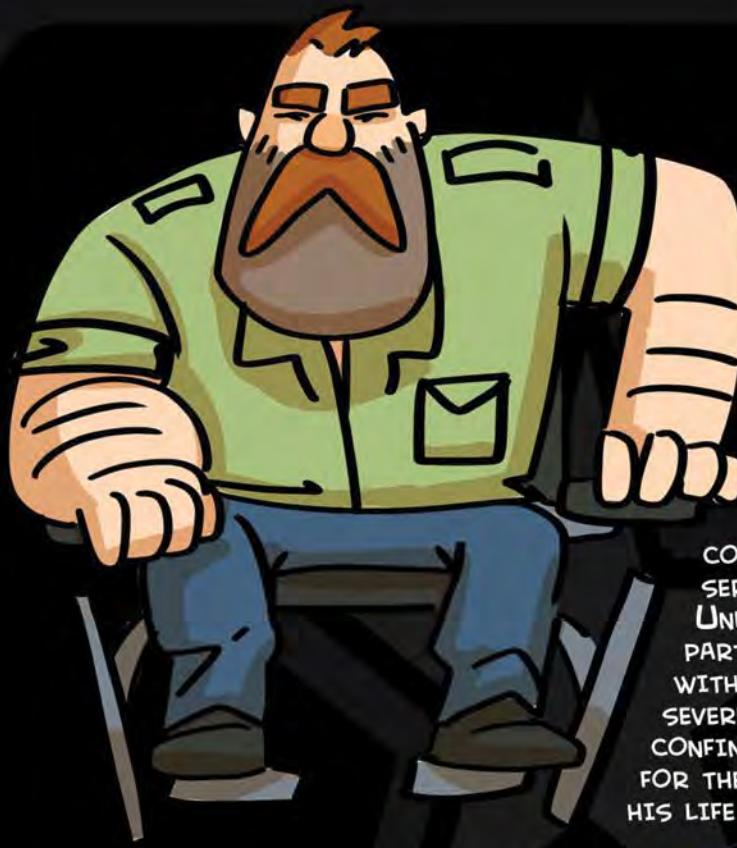
WHILE ON TOUR OF THE FACILITY, LARRY AND SUPER AGENT K MEET TARA BIGHT, WHO WORKS AT THE INSTITUTE. THEY ARE INSTANTLY IMPRESSED WITH HER PASSION, KNOWLEDGE AND SKILLS AS A PROGRAMMER.

TARA CAME FROM HUMBLE BEGINNINGS. AGAINST ALL ODDS, AND WITH THE HELP OF EXPERT MENTORS IN THE TECHNOLOGY AND CYBERSECURITY FIELDS, SHE PROVED TO BE A LIGHTNING-FAST CODER.

SHE HAS DEDICATED HER CAREER TO OPENING UP THE WORLD OF CODING TO CHILDREN AND TO IMBUE A LOVE OF TECHNOLOGY IN THEM. TARA IS THE "PIED PIPER" OF PROGRAMMERS. HER MAIN MOTIVATION IS TO SHATTER THE GLASS CEILING FOR DIVERSITY IN TECHNOLOGY.

TO DEFEAT A HACKER, YOU NEED A BETTER HACKER! AND THE CYBERHEROES HAVE TWO OF THE VERY BEST!

TARA BIGHT THE SUPERCODER



LEONIDAS SERVED HIS COUNTRY WITH DISTINCTION AS AN OFFICER IN THE MILITARY. HE AND HIS FAMILY HAVE MADE COUNTLESS SACRIFICES IN SERVICE TO AMERICA. UNFORTUNATELY, DURING A PARTICULARLY VICIOUS BATTLE WITH THE ENEMY, LEONIDAS WAS SEVERELY WOUNDED AND CONFINED TO A WHEELCHAIR REST OF HIS LIFE.

LEONIDAS HAS SUCH A POWERFUL LOVE FOR HIS COUNTRY THAT, EVEN AFTER HIS INJURIES, HE STILL WANTED TO SERVE. HE DECIDED HE WOULD EXPAND HIS MIND AND MOVE INTO MILITARY INTELLIGENCE. HIS MISSION: TO LISTEN AND LEARN ABOUT ATTACK VECTORS TARGETING THE UNITED STATES.

ONE PARTICULAR VECTOR THAT HE REALIZED IS INCREDIBLY DANGEROUS IS CYBER WARFARE. LEONIDAS RECEIVED IN-DEPTH TRAINING AND EARNED CERTIFICATIONS THAT DEVELOPED HIS SKILLS TO IDENTIFY THE ENEMY IN CYBERSPACE. AFTER HEARING LARRY'S AND SUPER AGENT K'S STORIES, LEONIDAS FINALLY FOUND THE TEAM TO HELP HIM ACCOMPLISH HIS MISSION.



LEONIDAS THE CYBERSOLDIER



JACK THE FIREWALL LOVES RULES. HE LIVES BY RULES. HE DENIES AND ALLOWS ENTRY BY RULES. HE DOES HIS JOB QUIETLY AND UNDER THE RADAR. MOST OF THE TIME, YOU DON'T EVEN KNOW HE IS THERE. HE'S ONE OF THE MOST CHALLENGING OBSTACLES THAT HACKERS HAVE TO BYPASS. A FORMIDABLE OPPONENT TO THOSE WHO WANT TO MERELY SNOOP OR THOSE WHO MEAN TO DO HARM!

HE WORKS IN PARALLEL WITH OTHER FIREWALLS AND TEAMMATES TO FORM DATA DMZ'S AND COMPARTMENTAL AREAS TO PROTECT VALUABLE ASSETS, SYSTEMS, AND INFORMATION. HIS ONLY WEAKNESS? STALE, OLD RULES. IN A CONSTANTLY-CHANGING CYBER LANDSCAPE, JACK MUST ENSURE THAT HIS RULES ARE ALWAYS UP-TO-DATE AND ONE STEP AHEAD OF HIS ADVERSARIES!

JACK THE FIREWALL



JUSTINA IS A FIRST-GENERATION AMERICAN OF MEXICAN HERITAGE. FROM A YOUNG AGE, SHE DEFENDED THE DEFENSELESS. SINCE THEN, SHE ALWAYS KNEW SHE WOULD BE A LAWYER.

SHE SET OUT TO LEARN ALL SHE COULD ABOUT THE JUDICIAL SYSTEM. MANY YEARS LATER SHE BECAME A PUBLIC DEFENDER, DEFENDING THE RIGHTS OF THE ACCUSED. ONE DAY, SOMETHING SHOCKING HAPPENED TO JUSTINA AND HER COLLEAGUES, WHEN SHE CLICKED ON AN EMAIL AND ALL THE COMPUTERS IN THE OFFICE FROZE.

SHE LATER LEARNED HER OFFICE WAS BEING HELD FOR RANSOM. THEY HAD TO DECIDE: SHOULD THEY PAY? OR SHOULD THEY FIGHT?

JUSTINA FOUGHT. HARD. EVENTUALLY, SHE EVEN IDENTIFIED THE HACKER... OR SO SHE THOUGHT. WORKING WITH LAW ENFORCEMENT, SHE REALIZED THAT THE LEGAL SYSTEM HAD NOT KEPT PACE WITH THE CHANGING WORLD OF TECHNOLOGY. IN TIME, JUSTINA WAS UNABLE TO BRING THE CRIMINAL TO JUSTICE.

WHEN THE CYBER HEROES SHARED THEIR STORIES, SHE INSTANTLY TOLD THEM:

"I'M IN!"

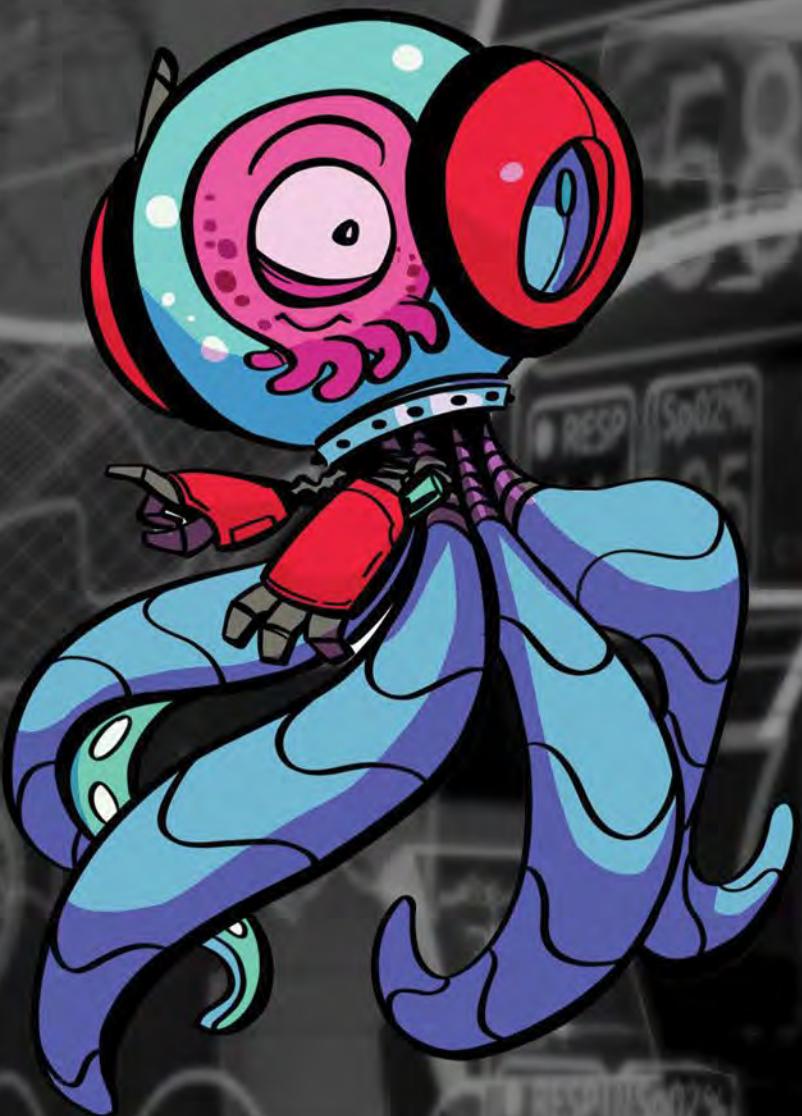
JUSTINA JASCO THE DEFENDER



DR. G WAS BORN ON AN EXOTIC ISLAND FAR, FAR AWAY. HE STARTED READING AND TINKERING AT AN EARLY AGE. FROM HIS GREAT GRANDPA,

"WISE OLD MAN" OF HIS SMALL FISHING VILLAGE, HE LEARNED A GREAT DEAL ABOUT THE ART OF WAR (AMONG MANY OTHER THINGS). IT WAS DURING THOSE LONG NIGHTS SITTING AROUND THE CAMPFIRE AND LONG WALKS ON THE BEACH WITH HIS GREAT GRANDPA THAT YOUNG DR G CAME TO UNDERSTAND AN IMPORTANT CONCEPT: GOOD DEFENDERS ARE THE FIRST FIGHTERS WHO PUT THEMSELVES BEYOND THE OPPORTUNITY OF DEFEAT. AFTER EARNING HIS PhD IN COMPUTER SCIENCE, DR G HAS SINCE PUT ALL THOSE LESSONS TO GOOD USE DEFENDING AGAINST CYBER CRIMINALS OF ALL STRIPES, AND ORCHESTRATING COUNTER ATTACKS TO THWART THEIR DESTRUCTIVE AND ILLEGAL ACTIVITIES. HIS WAY OF THINKING AHEAD OF THE OPPONENT'S MOVE IS UNPARALLELED. IT'S HIS PERSONAL GIFT!

DR G
THE CYBER NINJA



THE INTERNET OF THINGS (IOT) IS A NETWORK OF PHYSICAL DEVICES THAT INCLUDES VEHICLES, HOME APPLIANCES, HEART MONITORING IMPLANTS, STREET LIGHTS, BIOCHIP TRANSPONDERS, CAMERAS STREAMING LIVE FEEDS, AND OTHER ELECTRONIC DEVICES EMBEDDED WITH SOFTWARE, SENSORS, AND ACTUATORS. EACH THING IS UNIQUELY IDENTIFIABLE BUT IS ABLE TO OPERATE WITHIN THE EXISTING INTERNET INFRASTRUCTURE.

Pretty much any object can be turned into an IoT device if it can be connected to the internet and controlled that way. The term 'IoT' is used for devices that wouldn't generally be expected to have an internet connection, and that can communicate with the network independently of human action. Therefore, PCs and smartphones aren't considered IoT devices.

IOT THE INTERNET OF THINGS

Comic-BEE

Comic-Based Education & Evaluation for Cyber Security



Best Student Learning Aid, 2018 Innovations in Cybersecurity Education
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You've experienced how **graphic story-telling** can raise awareness of a critical topic in an engaging way. **What if you, the reader, were the hero?**

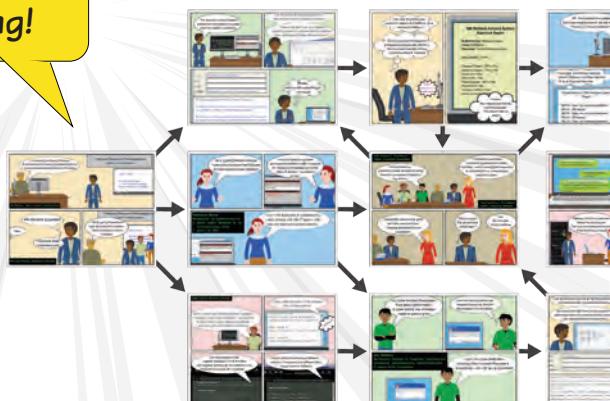
Branching web comics let the reader make choices that drive the story. Experiencing the impact of those decisions turns *fun* into *learning*.

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"Samsung is excited to partner with Cyberman Security and their CEO, Gary Berman, to support a new wave of technical-security training that creates true collaboration between the Cyber Heroes of the world. Storytelling is the best way to explain, and audiences to retain, the real issues facing corporations during the current digital transformation."

– Keith Fuentes
Vice President, Knox Sales, Samsung Electronics America, Inc.

"Cyberspace needs a hero! In fact, it needs a League of Heroes. If phrases like that stir something within you... and, let's face it, you know that they do, then you will immediately understand the value of this series. CyberHeroes: Defenders of the Digital Universe allows organizations to tap into the global infatuation with superheroes. It's time to suit-up, empower your organization and your family, and advocate for victims."

– Perry Carpenter
Chief Evangelist and Strategy Officer, KnowBe4.com

"The CyberHero Adventures: Defenders of the Digital Universe is truly a game-changer in the rapidly evolving cyber security ecosystem. Depicting the on-going battle between White vs. Black Hats in a superhero world is incredibly educating, interesting, intelligent, intriguing, entertaining and engaging. This is a must-read for large enterprises, SME's, law enforcement, the military, academia, educators and family members who want to stay safe online."

– Dr. George Antoniou
Assistant Professor of Cyber Security Management, St. Thomas University

"I can't thank you enough for presenting your insights and tools to the Best Buddies staff today. Your personal story helped us see how cyber-invasion can happen to anyone at any level. This can be scary and tricky material, but your positive energy brought us out the other side."

"We're looking forward to collaborating with you in the future on the creation of a customized version of The CyberHero Adventures: Defenders of the Digital Universe to serve our community of people with and without special needs throughout the United States."

– Corey Yugler, Director
Training & Development, Best Buddies Global Headquarters

"Cyber security leads to cyber safety and as evolving technologies that connect the world continue to make their way into the hands of children, it is vital today's youth and families are armed with information to make them less vulnerable. Using super heros and storylines that children can relate to creates a unique and edu-taining resource that can be used to creatively introduce and educate the next generation of digital citizens about the importance of understanding cyber security. Kudos to Gary Berman for developing and delivering such an important resource to families across our now global neighborhood."

– Richard Guerry, Founder
Institute of Responsible Online & Cellphone Communications, Iroc2.org

"People, Process, and Technology can help protect what matters most. Cyber Hero's is an illustration of providing a light-hearted and simple way to communicate the message that can be easily digested, great job!"

– Tom Brennan, CTO Proactive Risk

THANK YOU!

ONE OF THE MANY LESSONS THAT I'VE LEARNED AS THE VICTIM OF A FIFTEEN YEAR SERIES OF INSIDER CYBER CRIMES IS THAT THE ONLY TIME PEOPLE HEAR ABOUT HACKS IS WHEN THE HACKERS ARE SUCCESSFUL. THIS LIFE-CHANGING ENDEAVOR IS DEDICATED TO ALL OF THE UNSUNG, REAL-LIFE CYBER HEROES AND LAW ENFORCEMENT PROFESSIONALS WHO TOIL WITHOUT FANFARE OR ACKNOWLEDGEMENT EVERY DAY TO DEFEND US ALL AT WORK, HOME AND SCHOOL.

THIS INCREDIBLE JOURNEY WOULD NOT HAVE BEEN POSSIBLE WITHOUT THE UNWAVERING SUPPORT OF MY BEAUTIFUL, INTELLIGENT, CHARMING AND FUNNY BETTER-HALF, VALERIE AND OUR TWO AMAZING DAUGHTERS, SARA AND ILANA. THEY HAVE AND WILL ALWAYS BE AN INSPIRATION TO ME AND TO EVERYONE WHOSE LIVES THEY TOUCH. TO MY 90-YEAR-YOUNG MOMMY... IT'S ONLY GOING TO GET BETTER!

WORDS CAN'T ADEQUATELY EXPRESS MY GRATITUDE TO THE MEMBERS OF THE CYBERMAN SECURITY, LLC ADVISORY BOARD. THEY HAVE HELD MY HAND AND SHARED THEIR MORE-THAN-100-YEARS OF COLLECTIVE EXPERIENCE IN CYBER SECURITY AND TECHNOLOGY WITH THE PATIENCE OF SAINTS. THEIR REAL-WORLD EXPERIENCES AS DEPICTED IN THE CYBER HERO ADVENTURES WILL ENLIGHTEN, EMPOWER, AND ENTERTAIN PEOPLE OF ALL AGES AND HELP KEEP EVERYONE SAFE WHILE ONLINE.

AND LAST, BUT NOT LEAST, TO JULIO ALVAREZ AND THE INCREDIBLY TALENTED TEAM AT CREATURE ENTERTAINMENT, THANK YOU FOR YOUR STUNNING CREATIVITY, INCREDIBLE TALENT AND FOR TURNING OUR DREAM INTO A REALITY!



- GARY L. BERMAN, CREATOR
THE CYBERHERO ADVENTURES:
DEFENDERS OF THE DIGITAL UNIVERSE
CEO, CYBERMAN SECURITY, LLC

TO LEARN MORE ABOUT
SPONSORSHIPS OR TO CREATE A
CUSTOM EDITION FOR YOUR
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