



#3

EXCLUSIVE

THE CYBER HERO ADVENTURES

*THE AL SAMEH FAMILY
To The Rescue!*



HITB⁺CyberWeek

Abu Dhabi, UAE: 12-17 October 2019



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SOLVING THE NEXT GENERATION CYBER SECURITY PROBLEMS BY DEVELOPING THE NEXT GENERATION OF CYBER WARRIORS.

The biggest HITB event brings the world's leading thinkers and cyber security experts to Abu Dhabi in a week-long event! HITB⁺CyberWeek aims to disseminate the latest research and ideas not just to security professionals, but also to the student population through tailored content and challenges.

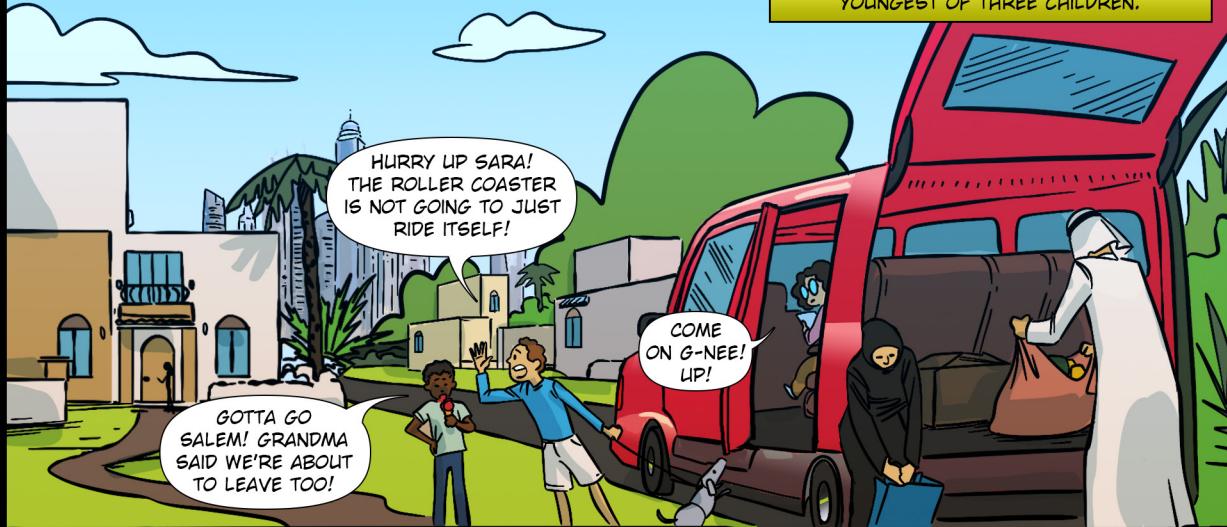


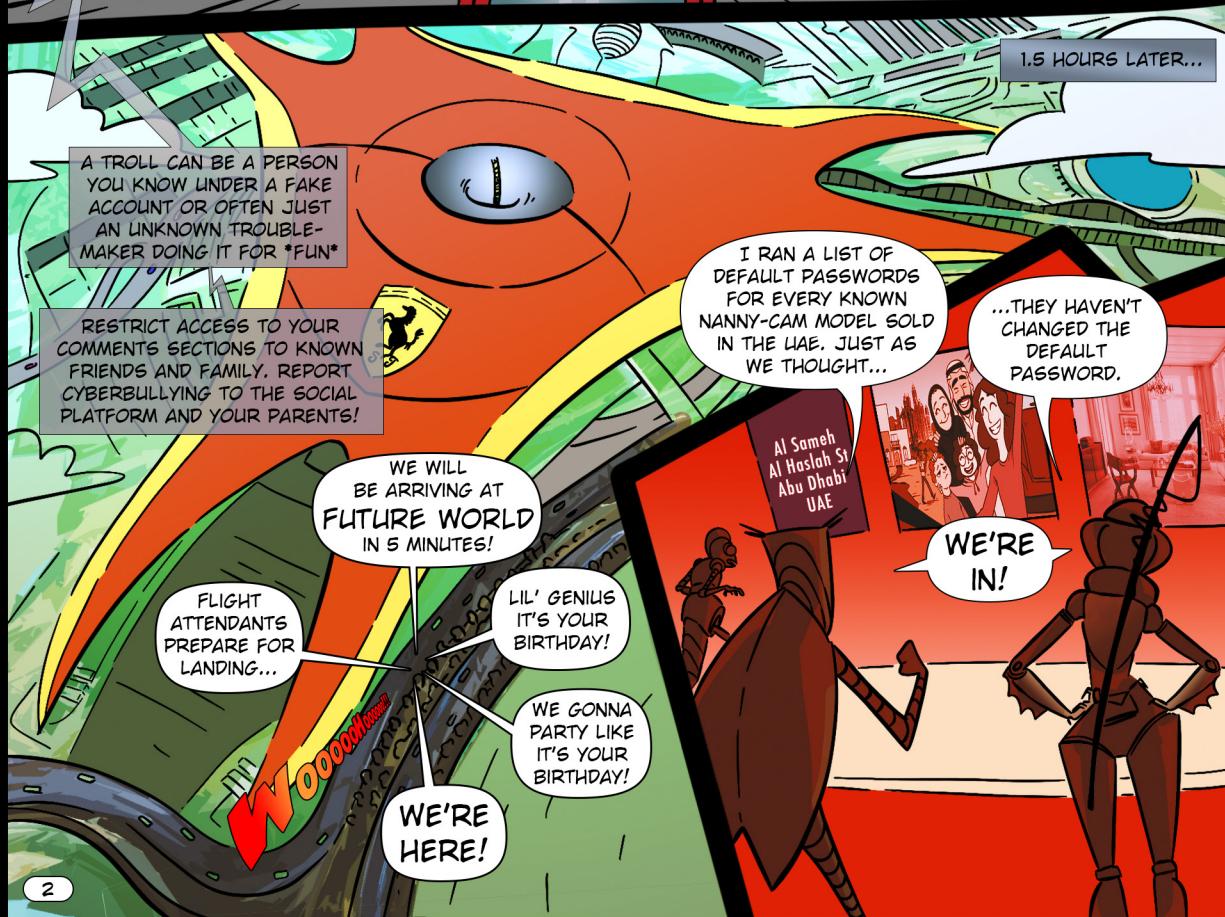
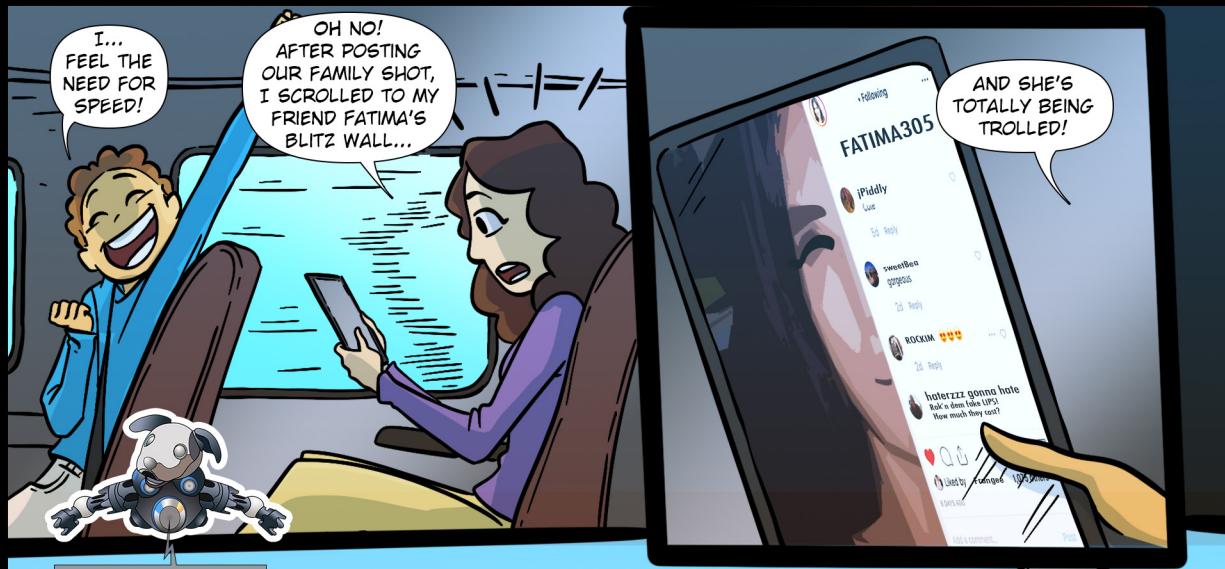
Emirates Palace,
Abu Dhabi, United Arab Emirates

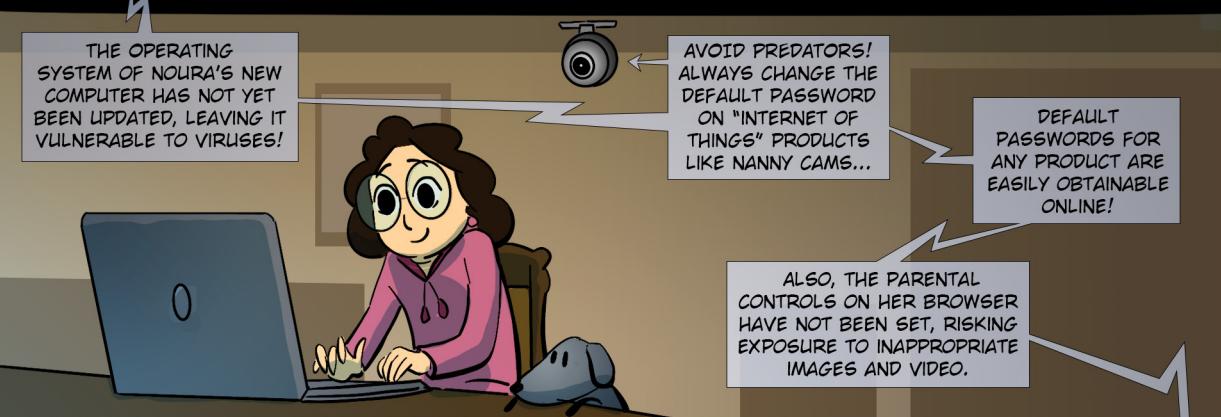
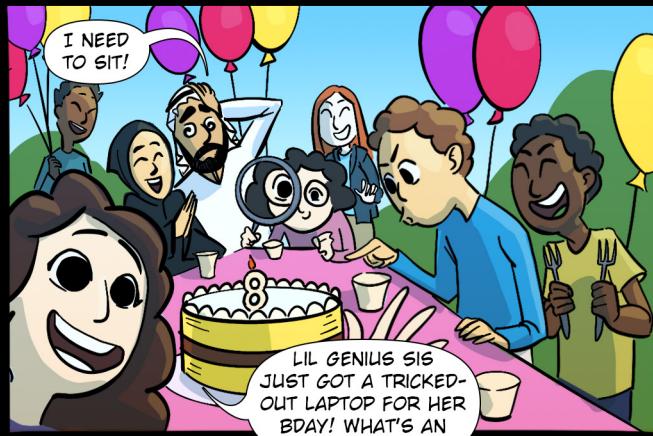
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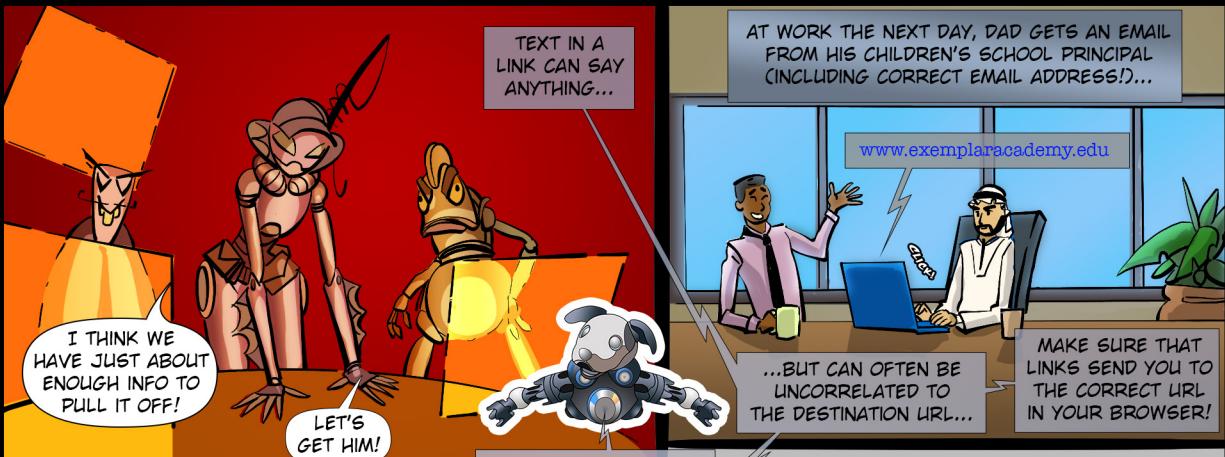
THE AL SAMEH FAMILY PREPARE TO GO ON A SATURDAY TRIP FROM ABU DHABI TO YAS ISLAND.

THEY HAVE INVITED THEIR FRIENDS AND FAMILY TO JOIN THEM AT FUTURE WORLD TO CELEBRATE THEIR LITTLE GIRL NOURA'S BIRTHDAY, WHO IS TURNING EIGHT, THE YOUNGEST OF THREE CHILDREN.









FROM: Rashid.Khan@ExemplarAcademy.edu

Hello Mr. Al Sameh.

In an evolving effort to modernize and simplify our payment systems to make it easier and more convenient for our students' parents to pay their child's tuition, we have upgraded our payment portal. Please log in to: www.exemplaracademy.edu and update your information. Tuition is due on May 15th for the following academic year.

Sincerely,

Rashid Khan, Principle
Exemplar Academy

CYBER CRIMINALS COLLECT INFORMATION FROM DIFFERENT SOURCES TO EXPAND THEIR PATHS OF ENTRY INTO YOUR DEVICES!



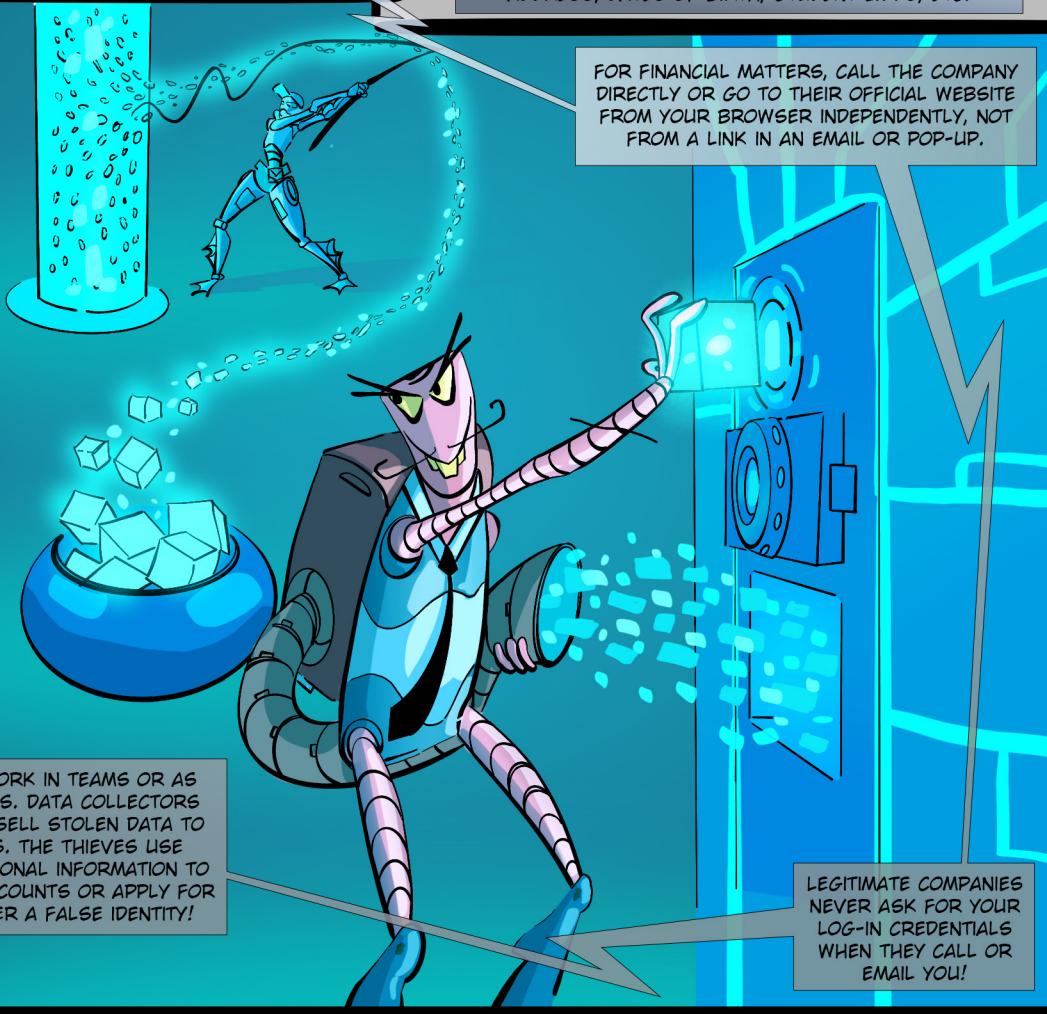
WATCH FOR MISSPELLINGS OR REGIONALLY INCORRECT TERMS ("PRINCIPAL" VS. "HEADMASTER")

AFTER CLICKING THE LINK IN THE EMAIL, THE SUBSEQUENT PAGE LOOKS LEGITIMATE. IT EVEN HAS MUCH OF THE INFORMATION ON THE FORM FILLED-OUT ALREADY: NAMES, ADDRESS, DATES OF BIRTH, STUDENT I.D.'S, ETC.

HOW DID WE GET HERE?

Al Sameh	Date of Birth	Student ID
Saeed	04 Sept 1979	FATHER
Aisha	09 Apr 1981	MOTHER
Noura	18 Mar 2011	18668-958
Salem	01 June 2006	55178-139
Sara	31 Aug 2002	24967-225
CREDIT OR BANK CARD NUMBER		EXP DATE
TOTAL	POSTAL CODE	CCV CODE
AED 165,262.00		

FOR FINANCIAL MATTERS, CALL THE COMPANY DIRECTLY OR GO TO THEIR OFFICIAL WEBSITE FROM YOUR BROWSER INDEPENDENTLY, NOT FROM A LINK IN AN EMAIL OR POP-UP.



THE NEXT DAY...

SARA IS APPLYING ONLINE TO SEVERAL UNIVERSITIES ON HER SHORT LIST.

HACKERS CREATE A BROWSER POP-UP THAT TRICKS SARA INTO CLICKING, DOWNLOADING, AND INSTALLING A VIRUS ON HER COMPUTER.

Click [here](#) to see your uploaded documents.

CLICK!

Can't see your pictures or open any of your files? All of your computer's files have been encrypted by CryptoWall!

Please pay, in bitcoin, AED2000 today, AED4000 tomorrow, or never see your data again!

Your friendly neighborhood Black Hat!

WHAT!?

EVEN THOUGH SARA BACKED UP SIX MONTHS AGO...

SHE CAN'T BEAR THE THOUGHT OF LOSING HER FINALS PAPER...

CHARLIE SAYS THAT THE CHANCE OF RECOVERY FROM CRYPTOWALL IS...

NON-EXISTENT!

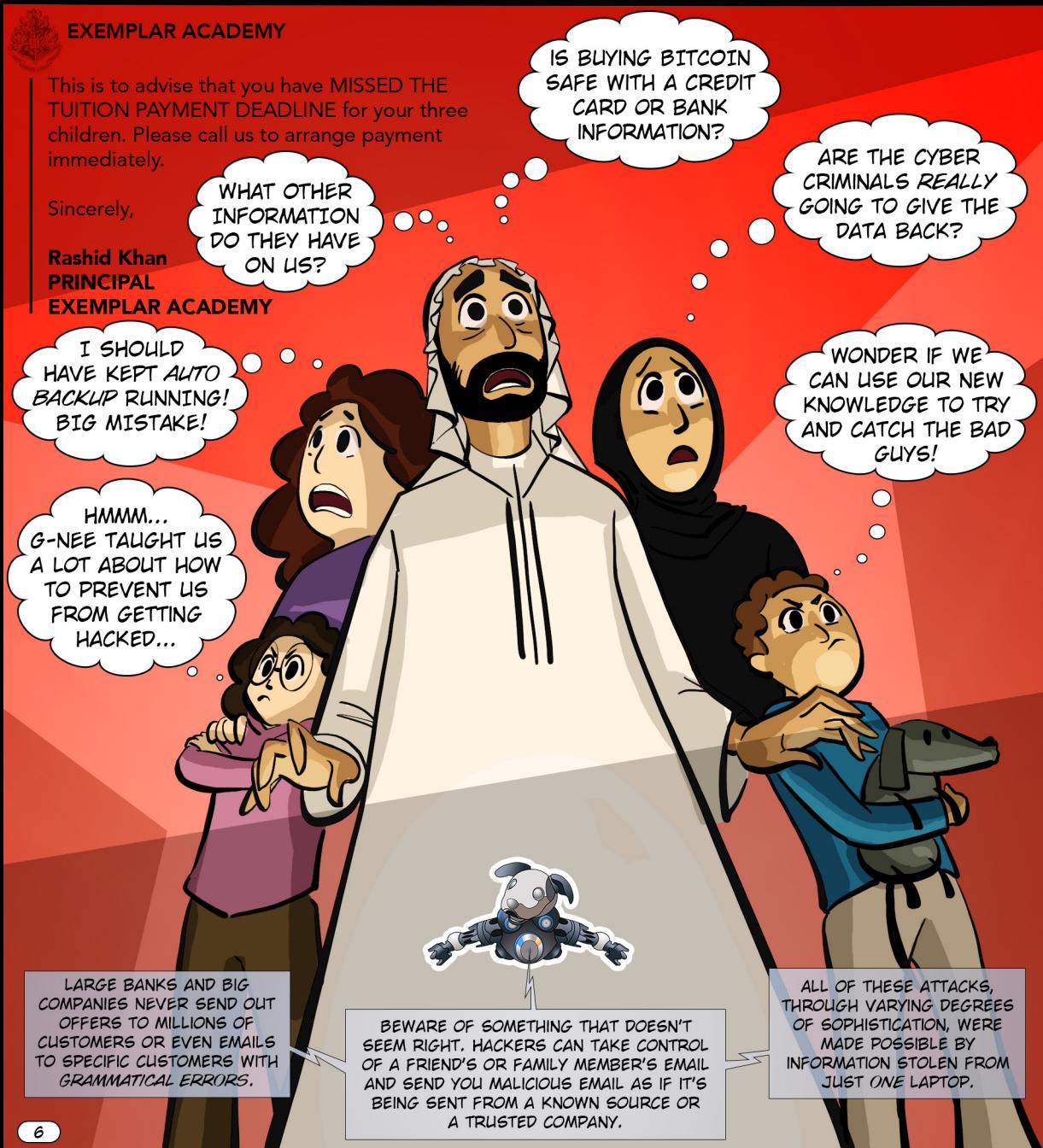
AN ATTEMPT BY DAD'S IT COLLEAGUE TO RECOVER SARA'S DATA PROVES FRUITLESS.

DISABLE POP-UPS IN YOUR BROWSER!

SET UP AUTOMATIC BACKUPS SO YOUR FILES ARE BACKED-UP EVERYDAY!

SO ARE WE GOING TO ACTUALLY DEAL WITH THESE CRIMINALS?

DECRYPTION IS POSSIBLE, BUT IT REQUIRES TIME AND GOVERNMENT-LEVEL RESOURCES!



I THINK I HAVE A PLAN! IF I CAN JUST GET THIS SOLDERED... THERE!

THAT OUGHTA DO IT!

CYBER TRANSPORTER V2.0!

WITH THE MODS, WE CAN GO INSIDE CYBER SPACE AND SEE AND INTERACT WITH A PHYSICAL ENVIRONMENT!

I MODDED AN OPEN-SOURCE DESIGN I FOUND ON THE NET.

SNEEZ!!

THEN ADDED A FEW SENSORS AND WROTE SOME CODE.

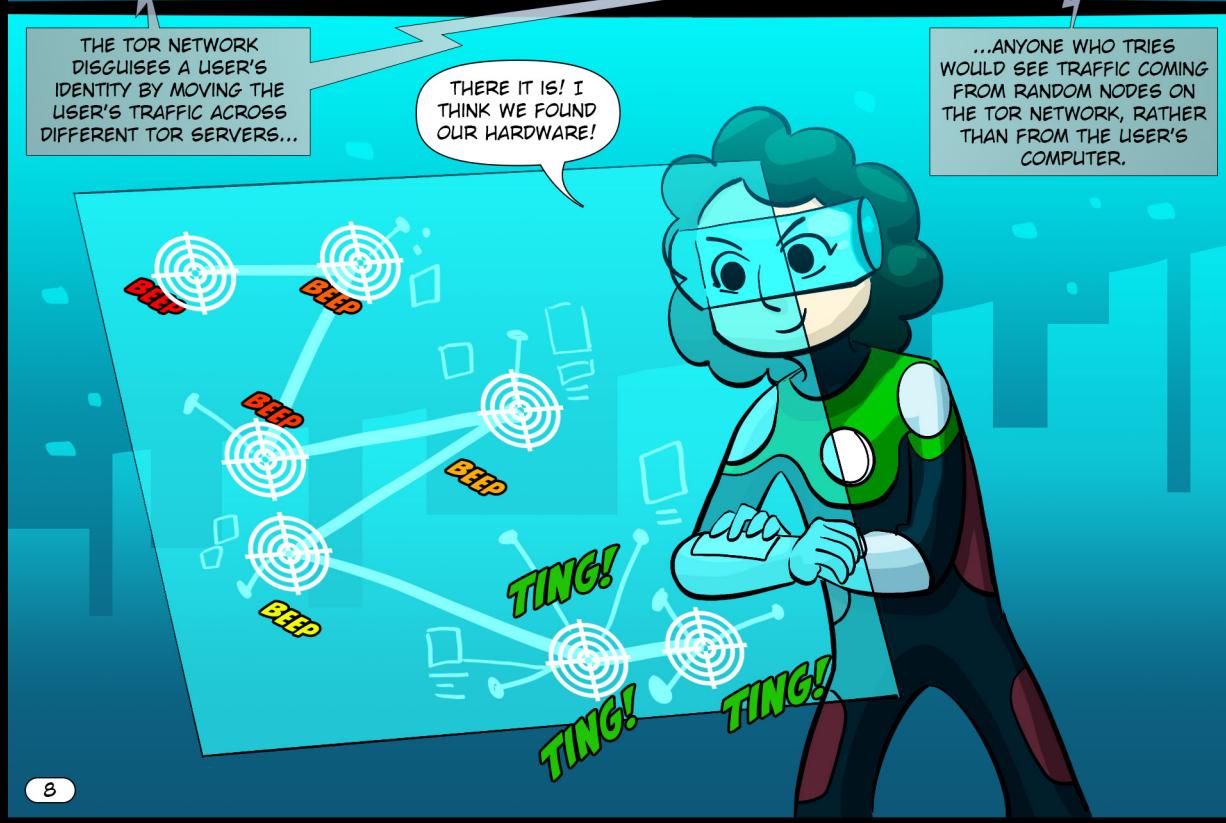
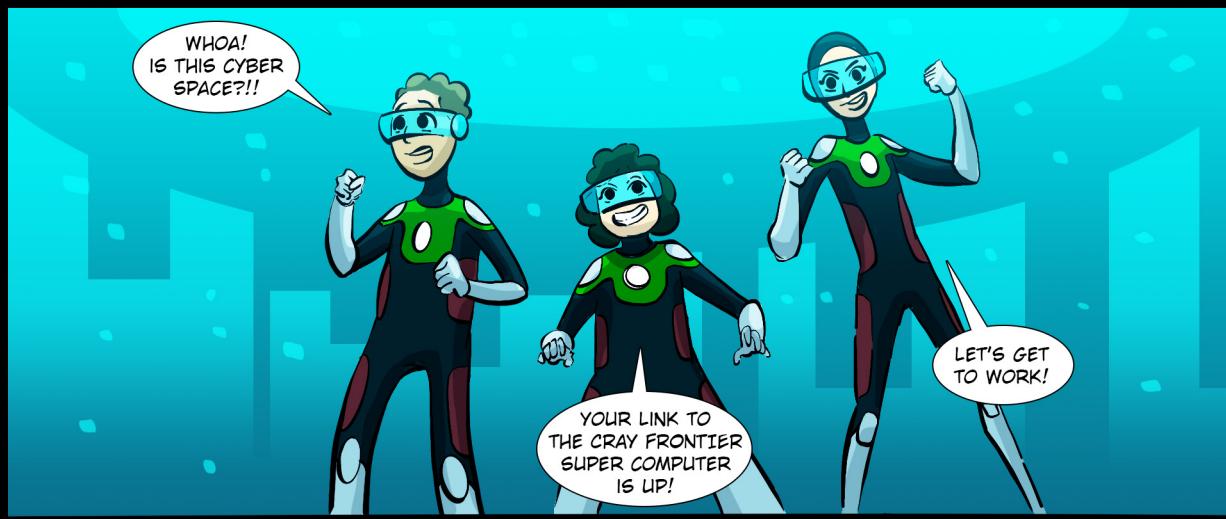
AND WITH EVERYTHING WE'VE LEARNED FROM G-NEY AND OUR OWN EXPERIENCES ABOUT HACKING AND CYBER SECURITY...

WE'RE GOING TO HACK US SOME HACKERS!

WAIT, I'M NOT READY...

ZWWWWOOOOO!

SHOOT! WE TELL MOM & DAD!



YOUR TURN SIS! NOW THAT WE HAVE THE IP ADDRESS OF THE VILLAINS' COMPUTER...

AND THEIR LOG-IN INFO!

...IT'S TIME WE PAID THEM A VISIT!

WE'LL USE A VPN & TOR TO GET YOU THERE...

THE SAME CLOAKING DEVICES HACKERS USE TO HIDE THEIR IDENTITY!

EXCEPT WE'LL BE CAREFUL NOT TO LEAVE ANY LOG FILES BEHIND!

LUCKILY, THE NETWORK IS ONLY BEHIND A UTM* AND NOT A NEXT GEN FIREWALL.

AS UNAUTHORIZED TRAFFIC, IT'S STILL GOING TO BE TRICKY GETTING PAST INTRUSION PREVENTION.

SARA BEAMS THROUGH THE INTERNET AS A CURRENT OF ELECTRONS AT HALF THE SPEED OF LIGHT...

ONE OF THOSE DATA PACKETS SHOULD GET YOU INTO THE NETWORK.

UHH... SHOULD?

WHEN PROBABILITY REACHES THE ASYMPTOTE...

...BOLINING OFF TOR SERVER NODES ALONG THE WAY!

TELL ME AGAIN HOW WE KNOW THIS LOG-IN IS GOING TO WORK!

CAUSE WE HACKED THEIR PASSWORD JUST LIKE THEY DID US!

CAN I PLEASE TAKE THIS RUBBER BODY BACK TO THE REAL WORLD?

DOES WONDERS FOR MY LINEVEN BARS!

GYMNASICS 2.0 HERE WE COME!

*A UNIFIED THREAT MANAGEMENT FIREWALL TYPICALLY COMBINES THE FUNCTIONS OF A STATEFUL INSPECTION FIREWALL WITH INTRUSION PREVENTION AND ANTIVIRUS...

A "NEXT-GEN" FIREWALL ADDS APPLICATION AWARENESS TO BLOCK RISKY APPS...

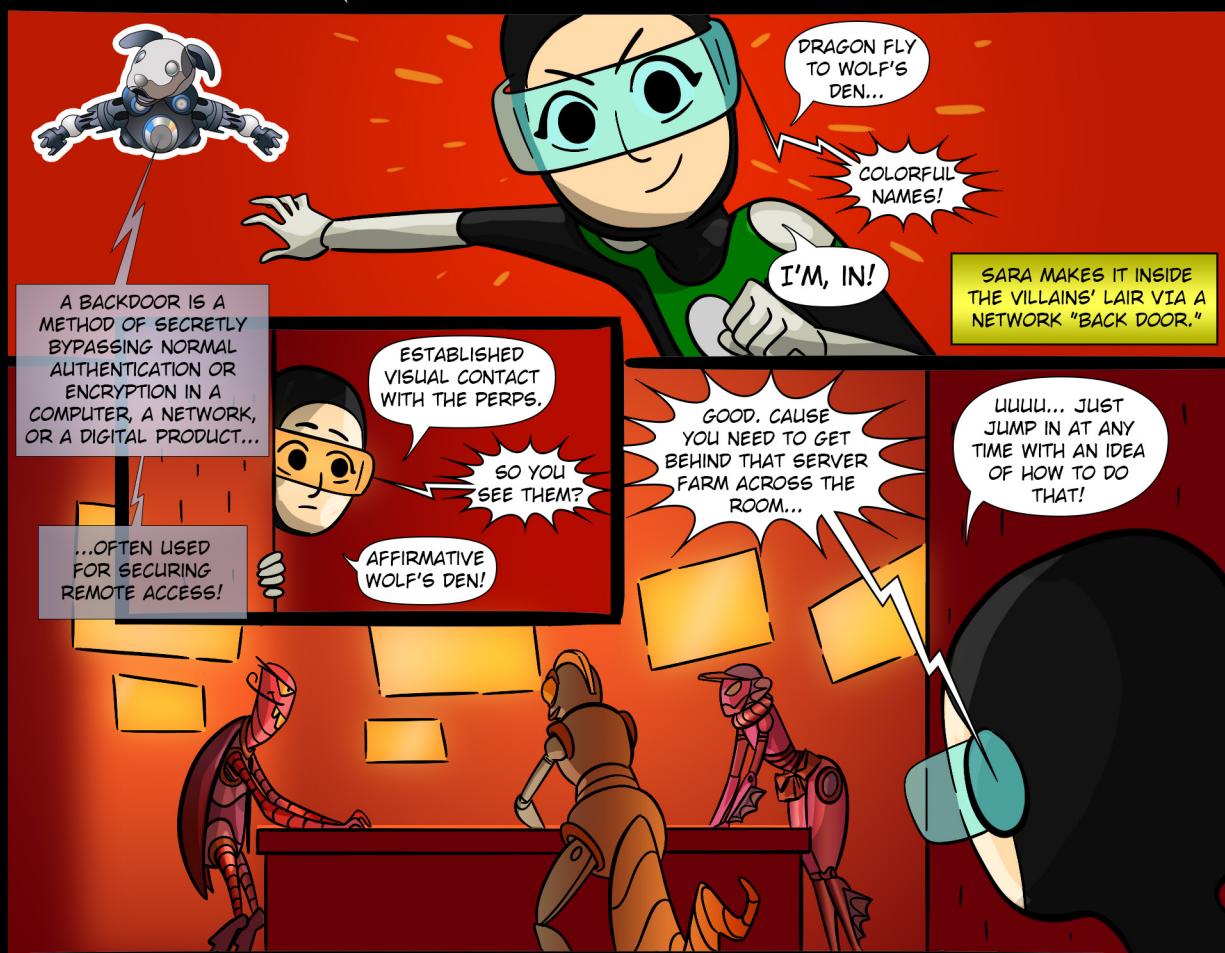
MAKE SURE YOUR FIREWALL IS RUNNING!

THE SIBS ARE ON-POINT AGAIN!

WELL, HERE GOES NOTHING!

AND ALWAYS UPDATE YOUR OPERATING SYSTEM!

...AS WELL AS TECHNIQUES USING AI TO ADDRESS EVOLVING SECURITY THREATS!



DEEP INSIDE THE VILLAINS' LAIR...

I DON'T KNOW IF I CAN MAKE IT ALL THE WAY AROUND WITHOUT GETTING CAUGHT!

SARA IS STUCK!

THERE IT IS! WE HAVE THE COMPLETE FILE!

THIS SHOULD GET THEIR ATTENTION!

NOURA & SALEM WORK AT THE SPEED OF LIGHT TO CREATE A CONVINCING FAKE DISTRACTION!

OH-HO! FOR THE LOVE OF CATS!

LOOK AT THAT CREDIT SCORE!

DINNER'S ON ME GENTS!

CHECK YOUR BANK AND CREDIT CARD ACCOUNTS OFTEN. SOME HACKERS STEAL SMALLER AMOUNTS OVER TIME IN THE HOPES IT WILL GO UNNOTICED!

ALSO, CHECK YOUR CREDIT REPORT TO ENSURE THAT THERE ARE NO ILLEGAL LOAN APPLICATIONS SUBMITTED UNDER YOUR NAME!

COUNT DOWN...

IN 3...
2... 1...

GO! BOI GO!

WHEW! SHOUT OUT TO THESE NEW FEET!

I SPUNTED ALL THE WAY OVER ON MY TIPPIE TOES!

QUICKLY BUT QUIETLY...

WHAT'RE YOU GONA DO WITH YOUR CUT?

I'M GONA BUY A BOAT, GO FISH...

...ER, WHOOPS, SORRY!

INSTANT WEALTH DELUSIONS!



SARA MAKES IT OVER WITHOUT DETECTION!

WHICH ONE OF THESE PACKETS DO I USE?

TRY ALL OF THEM!

KEEP SETTING THEM UP PHISHER!

AND WE'LL KEEP KNOCKIN' 'EM DOWN!

YOU DIDN'T TELL ME THERE WERE GOING TO BE SO MANY!

THAT BATCH REPRESENTS THE MOST PROBABLE LOG-INS FROM ALL THE...

OH, HANG ON, THERE WE GO. I THINK WE'RE IN!

TWO-STEP VERIFICATION LETS YOU KNOW IF SOMEONE IS TRYING TO LOG-IN TO YOUR NETWORK, COMPUTER, DIGITAL DEVICE, SOCIAL MEDIA ACCOUNT, OR EMAIL!

SIMPLE BEST PRACTICES WILL DISCOURAGE 99% OF HACKERS, WHO WILL JUST MOVE ON TO EASIER TARGETS!

STOP THE PRESSES LADIES & GENTS...

WE MAY HAVE A VISITOR!

**WARNING!
INTRUDER ALERT!**

SOMETHING FISHY??!

SIS! THEY'RE ON TO US!

OH NO! WHAT DO I DO?

GET OUT OF THERE!

CYBER VILLAINS FAN OUT! WE GOT US A RODENT TO HUNT!

WE SENT THE ADDRESS OF THE VILLAINS' LAIR TO THE POLICE!

BUT RIGHT NOW, BOGEYS ARE CLOSING IN! MOVE, MOVE, MOVE!

THE VILLAINS ARE ON THE PROWL!

SHARP EYES FELLAS!

WE GOT OURSELVES SOME VERMIN!

C'MERE LITTLE MOUSE!

SAYONARA BLACK HATS!

SORRY I CAN'T STICK AROUND FOR YOUR LARPER MEETING!

GET HER!

THE PHISHER WHIPS HER FISHING ROD!

SLIPPERY ONE!

...AND NEARLY SNAGS SARA!

YOU MISSED!

DON'T LET HER ESCAPE!!!

I HAVE PLACES TO GO AND PEOPLE TO MEET!

AND SO DO YOU ALL! JAIL!

BETCHA DIDN'T KNOW THIS MOUSE HAD WINGS!

I OPENED A PORTAL IN THE FIREWALL, SIX CLICKS STARBOARD,

NETWORK PROTECTIONS ARE ALREADY TRYING TO FORCE IT CLOSED! SO RUN!

SARA IS OFF LIKE A BOLT! NOT EVEN A CYBER BULLET CAN CATCH HER NOW!

GO SIS! YOU'RE ALMOST IN THE CLEAR!



NOURA
COMES UP
WITH A LAST
DITCH PLAN!

YOU'RE GOING
TO HAVE TO JUMP
STRAIGHT UP TO
THE CEILING BEAMS!

IT'S OK KIDS,
MOM AND DAD
ARE HERE!

NOW LET'S
GET YOUR
SISTER...
AND SEND
SOME CYBER
CRIMINALS
TO JAIL!

HERE
LITTLE BITTIE
MOUSE...

WHAT?
THAT'S OVER
SEVEN METERS
HIGH!

GET
HER!

7.62 TO
BE EXACT

BUT YOU CAN DO IT!
YOU HAVE POWERS IN
THE CYBER WORLD!

SO LONG
LEECHES!

JUST AS THE VILLAINS
RUSH TO GRAB SARA,
THEY SUDDENLY START
TO DE-MATERIALIZE...

HUH?
DAD?

YOU KIDS
CAN'T HAVE
ALL THE
FUN!

AS IF THEY'RE BEING
BEAMED OUT OF THE
CYBER WORLD!

HAVEN'T YOU HEARD?
THE AL SAMEH FAMILY
ARE THE NEW CYBER
HEROES IN TOWN!

YOU'VE
MESSED WITH
THE WRONG
FAMILY!

TOGETHER
WITH OUR PUPPY
DRONE G-NEE & LAW
ENFORCEMENT...

WE WILL FOREVER
BATTLE CYBER CRIMINALS
LIKE YOU TO DEFEND OUR
GREAT HOMELAND!





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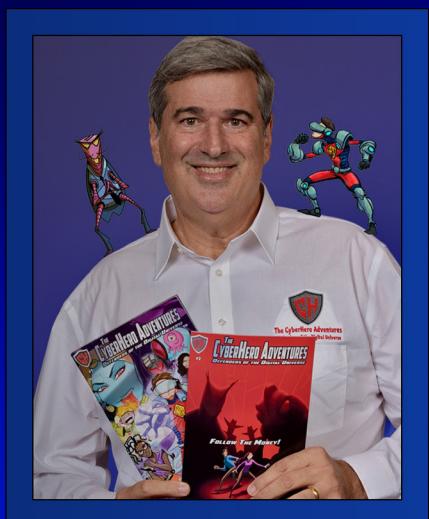


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YES WE HACK

THANK YOU!



ON BEHALF OF OUR ENTIRE CREATIVE TEAM INCLUDING DANIEL DULITZKY (ILLUSTRATOR, INKS, COLORS), JULIO ALVAREZ (WRITER, LETTERIST, COLOR FLATS, DESIGN) AND NIKO TIMBALDI (INKS), AND THE NUMBER ONE SIDEKICK IN THE UNIVERSE (OLIVIER VALLEZ), THANK YOU FOR THE EXTRAORDINARY HONOR OF COLLABORATING WITH HITB+CYBER WEEK TO CREATE THE CYBER HERO ADVENTURES: THE AL SAMEH FAMILY TO THE RESCUE!

OUR MISSION IS TO CREATE FUN, ENGAGING, ENTERTAINING AND EDUCATIONAL COMICS TO EMPOWER PEOPLE OF ALL AGES WITH INFORMATION TO HELP KEEP THEM SAFE ONLINE AT WORK, HOME AND SCHOOL. TOGETHER, WE HAVE HAD THE HONOR OF LEARNING ABOUT THE AMAZING PEOPLE, PLACES AND CULTURE OF THE UAE, INCLUDING YOUR FOCUS ON TOLERANCE, DIVERSITY AND LEADING-EDGE EMPHASIS ON HIGH TECH.

WE'VE ALSO LEARNED THAT COMICS AND SUPERHEROES TRANSCEND TIME, DISTANCE AND SPACE AND THAT THIS IS ONLY THE BEGINNING OF THE EXCITING ADVENTURES THAT THE AL SAMEH FAMILY WILL SHARE IN THE DIGITAL UNIVERSE!

IN TODAY'S HYPER-CONNECTED AND ALWAYS ONLINE WORLD, THERE ARE MANY DANGERS THAT LURK ONLINE. HITB+CYBERWEEK'S GOAL IS TO INCREASE AWARENESS AROUND THE CYBER THREATS THAT FAMILIES FACE EVERY DAY.

BE CYBER SMART,
SAFE AND SECURE!

