

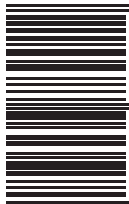


**\$FREE** us

RATED **S** SECURITY



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# Cyber Threat Response

CISCO SECURITY



# Cisco

## BDA Strategy

Defending real world cyber threats requires a layered approach as no single defense tactic is 100% effective. Attacks typically involve multiple steps known as “The Kill Chain”. Your goal is to prevent the attack as early in the kill chain as possible.

At Cisco, we call our recommended layered approach for security the **Before, During** and **After** defense design.

### Appliance – Virtual – Cloud



### Visibility, Intelligence and Automation

Watch for how each security technology is covered within the Cisco BDA blueprint.

# Cyber Threat Response

Brought to you by **CISCO SECURITY**



course architects

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letters

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creative direction

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art direction/design

Santos Vega

editing

Andrew Akers





# Smash and Grab

## Chapter One

EVENING. UNKNOWN LOCATION

"I SEE YOUR *HACKMDS.COM* SERVERS ARE ACCESSIBLE FROM *THE OUTSIDE*."

"EVERYBODY HAS VULNERABILITIES."

"LET'S LOOK AT MY NOTES ON THIS TARGET."

### Notes

- Lacks DNS and reputation security
- Standard DMZ
- Skeleton IT staff
- Poor patch management
- Weak security defenses
- Vulnerable to web attacks
- Poor event monitoring

HMM

THIS WILL BE TOO EASY.

### Mr. Black (alias)

Laid-off after 25 years of employment

Goal is to obtain 30 million dollars using any means available

No criminal records

No social media, false records, limited digital footprint

Proficient technologist

LATER OVER A SECURE IRC CHANNEL

07:57 Mr Black - Hit the servers without alarming the staff.

THIS IS MY CHANCE AT THE BIG LEAGUE.

07:57 -- The goal is scan any system online for known vulnerabilities

GOOD THING THEY ARE A HOSPITAL BECAUSE AFTER MY ATTACK ...

THERE WILL BE BODIES ...

07:58 -- And exploit any vulnerability for access to the HackMDs Network.

DINNER!

MOM I'M HACKING!

07:59 -- Using the compromised system, we will setup a hidden tunnel to exfiltrate any data we find!

## Mr. Orange (alias)

Known as the "Loud Jerk"

Day job unknown but has been dabbling in scripted cyber crime

Actively looking to prove himself as an elite hacker



HACKMDS SECURITY OPS CENTER

FIREPOWER GROUPS VARIOUS ALERTS AS A SECURITY INCIDENT.

OUR SERVERS ARE BEING HIT BY SOMETHING

WHAT ARE THESE ALARMS?

IT LOOKS LIKE SOMEBODY IS TRYING TO EXPLOIT OUR SERVERS.

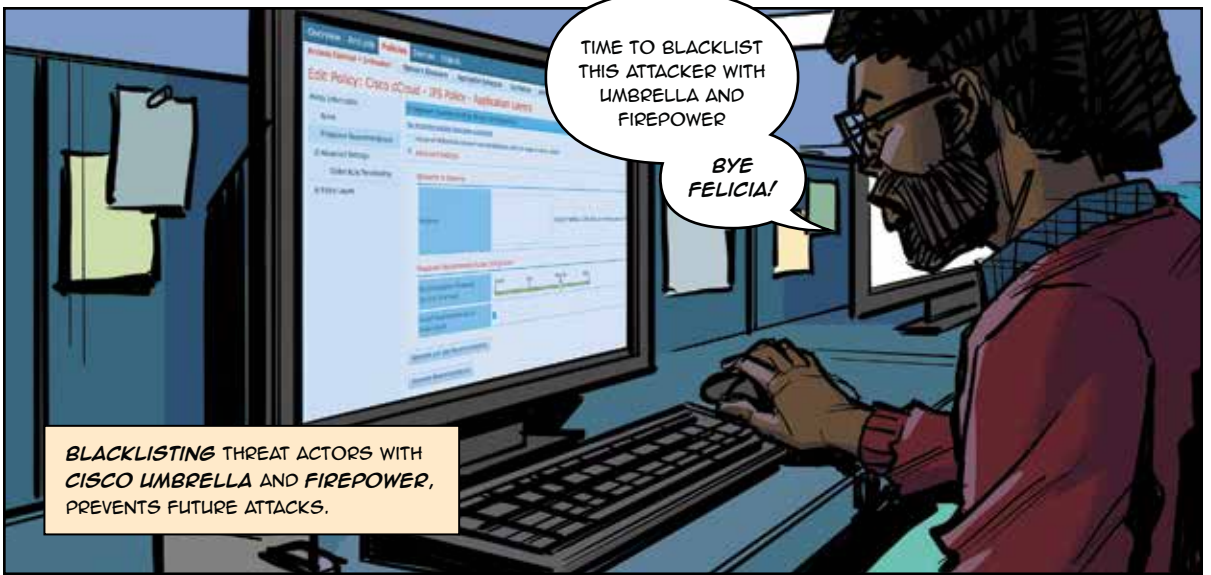
GOOD THING OUR IPS IS TUNED FOR OUR ENVIRONMENT.

ANY HIGH RISK INCIDENT WILL INFORM HACKMDS.

FIREPOWER CAN AUTO-TUNE THE IPS TO ADAPT TO NEW VULNERABILITIES WITHIN THE NETWORK.



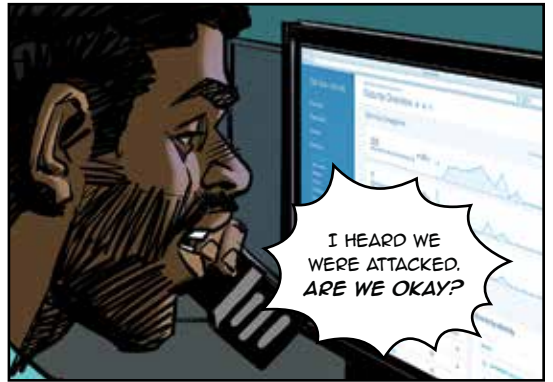




TIME TO BLACKLIST THIS ATTACKER WITH UMBRELLA AND FIREPOWER

BYE FELICIA!

BLACKLISTING THREAT ACTORS WITH CISCO UMBRELLA AND FIREPOWER, PREVENTS FUTURE ATTACKS.



I HEARD WE WERE ATTACKED. ARE WE OKAY?



YES SIR!

CISCO FIREPOWER PREVENTED AN ATTACK AGAINST OUR SERVERS

BUT THERE ARE VULNERABILITIES THAT NEED TO BE PATCHED.

AS A MATTER OF FACT ...



"MANY OF OUR SYSTEMS NEED TO BE ASSESSED!"

HACK MDS TODO

- Identify All Devices
- Assess For Vulnerabilities
- Update Software
- Network Segmentation
- Layered Security
- Limit User Privileges



"WE DON'T HAVE THE MANPOWER. I'LL CALL CISCO SERVICES."

NO PROBLEM!  
WE HAVE YOU COVERED



www.xploitz.com

Infect Me

Feeling Lucky

X

# Don't Do It!

## Exploits are everywhere!

An exploit kit is a web server designed to identify and exploit vulnerabilities in client machines. The goal is to deliver something malicious such as a backdoor or ransomware.

Exploit kits can be rented online making it easy for non-technical attackers to deliver technical attacks without understanding the details of how the attack works.

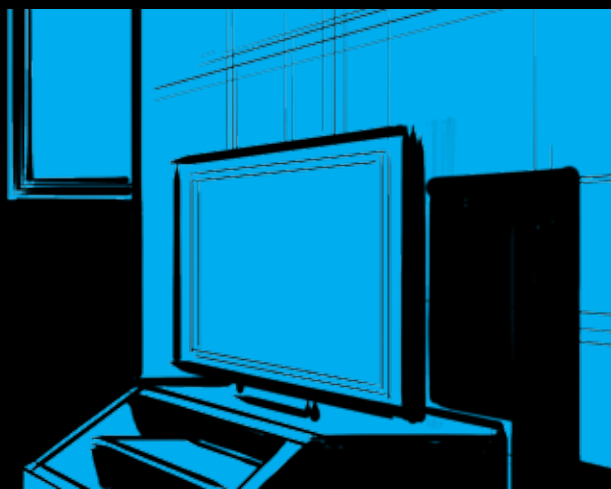


Coming Soon 2 ur CPU

# Ransomware

**Never stop the incident response at removing the infection, or you may experience it AGAIN!!**

**Identifying ransomware** means an attacker was able to breach your network and deliver malicious software. **Best practice is to identify and remediate infected machines, harden the network against the attack method used, and blacklist any sources linked to the original attack!**



# Ransomware

## Chapter Two

NEXT DAY, UNKNOWN LOCATION

THIS HOSPITAL  
WILL PAY  
ANYTHING FOR  
THEIR DATA.

I JUST NEED TO  
FIGURE OUT *HOW*  
TO GET TO THE  
PATIENT RECORDS



"LET'S LOOK AT MY NOTES ON  
*THIS TARGET.*"

### Notes

- Various users and devices
- Limited desktop security
- Vulnerable to social engineering
- Possibly flat network
- High dollar data
- Skeleton IT staff
- Blind to Insider threats
- Chaotic environment with revolving customers and devices

LATER OVER A SECURE IRC CHANNEL

11:01 Mr Black - How can I get money from this target fast?

I HAVE JUST THE THING.

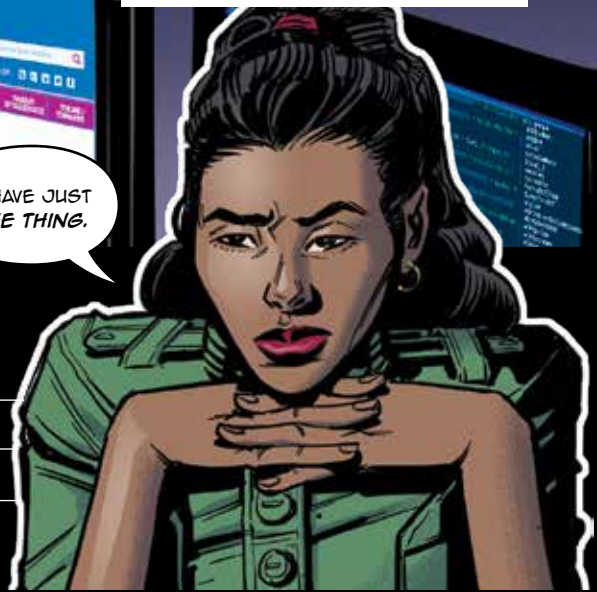
### Ms. Blue (alias)

Penetration tester gone rogue

Quit job to sell exploits on darknet

Respected speaker/hacker in community

HATES Mr. Orange



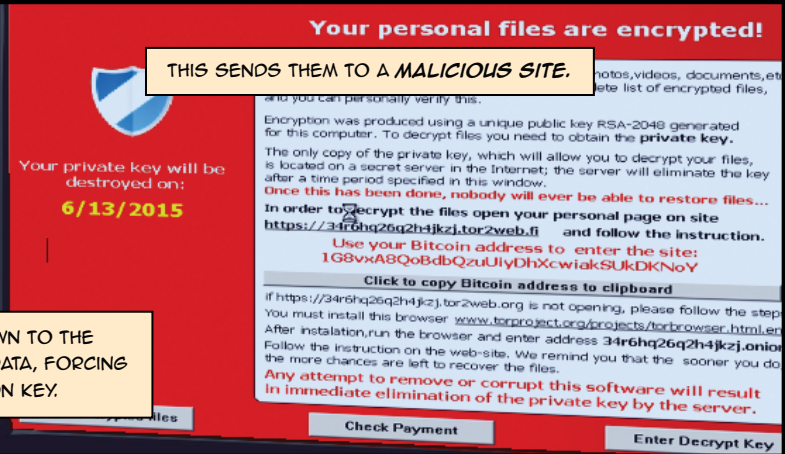
11:01 Ms Blue - We will use an exploit kit to deliver Ransomware.

11:01 :- I will need to trick the user to access my attack server.

THIS CAN BE DONE THROUGH AN EMAIL PHISHING ATTACK DESIGNED TO TRICK THE USER INTO CLICKING A LINK

THIS SENDS THEM TO A MALICIOUS SITE.

RANSOMWARE WILL BE PUSHED DOWN TO THE COMPUTER, ENCRYPTING PERSONAL DATA, FORCING THE VICTIM TO PAY FOR THE DECRYPTION KEY.



Your personal files are encrypted!  
photos, videos, documents, etc  
list of encrypted files,  
to you can personally verify this.  
Encryption was produced using a unique public key RSA-2048 generated for this computer. To decrypt files you need to obtain the private key.  
The only copy of the private key, which will allow you to decrypt your files, is located on a secret server in the Internet; the server will eliminate the key after a time period specified in this window.  
Once this has been done, nobody will ever be able to restore files...  
In order to decrypt the files open your personal page on site <https://34r6hq26q2h4jkzj.tor2web.fi> and follow the instruction.  
Use your Bitcoin address to enter the site: 1GBvxASQoBdbQzuUlyDhXcwiakSukDKNoY  
Click to copy Bitcoin address to clipboard  
if <https://34r6hq26q2h4jkzj.tor2web.org> is not opening, please follow the step You must install this browser [www.torproject.org/projects/torbrowser.html.en](http://www.torproject.org/projects/torbrowser.html.en)  
After installation, run the browser and enter address [34r6hq26q2h4jkzj.onion](https://34r6hq26q2h4jkzj.onion)  
Follow the instruction on the web-site. We remind you that the sooner you do the more chances are left to recover the files.  
Any attempt to remove or corrupt this software will result in immediate elimination of the private key by the server.

Check Payment

Enter Decrypt Key

HACKMDS SECURITY OPS CENTER

WE HAVE A BREACH.

TIME TO INFORM THE BOSS.

CISCO ADVANCED MALWARE PROTECTION (AMP) SHOWS VIDEO OF A QUARANTINED THREAT.

WE HAVE A PROBLEM!

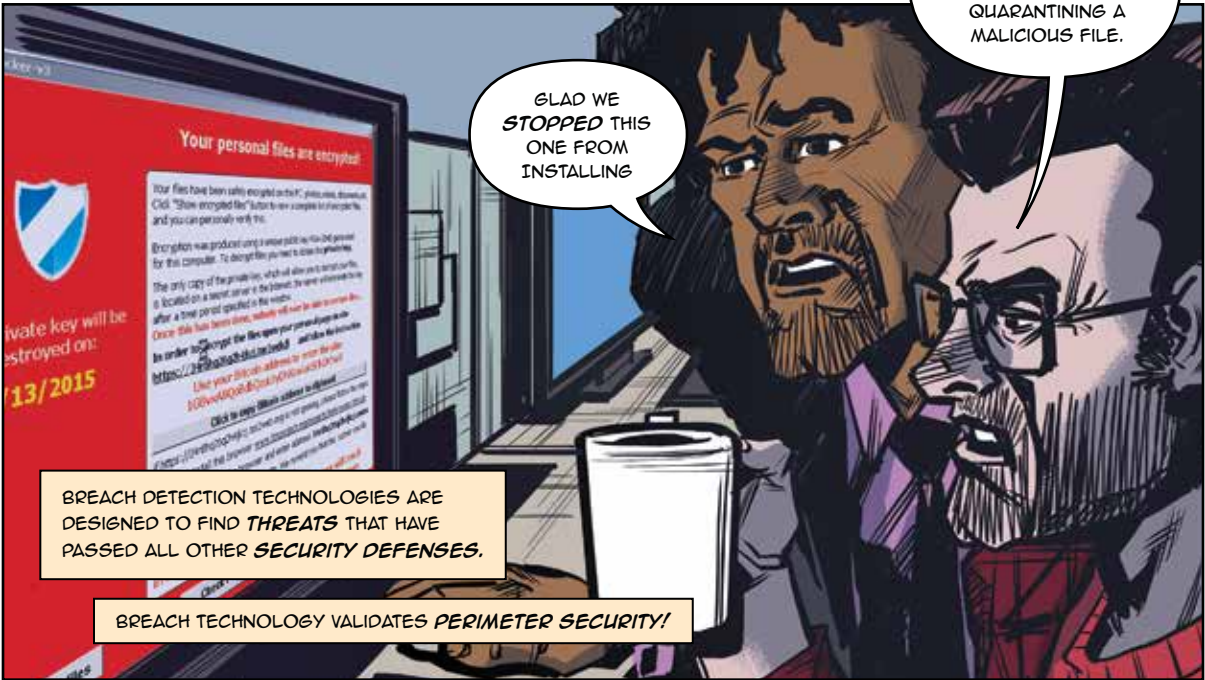
AMP CAN GO BACK IN TIME TO IDENTIFY ALL INFECTED SYSTEMS INCLUDING PATIENT ZERO.

CISCO AMP IS SHOWING MULTIPLE HOSTS ARE QUARANTINING A MALICIOUS FILE.

GLAD WE STOPPED THIS ONE FROM INSTALLING

BREACH DETECTION TECHNOLOGIES ARE DESIGNED TO FIND *THREATS* THAT HAVE PASSED ALL OTHER *SECURITY DEFENSES*.

BREACH TECHNOLOGY VALIDATES *PERIMETER SECURITY!*



"I WONDER WHO BROUGHT THIS FILE ONTO THE *NETWORK* ..."

WHY DOES THIS EMAIL KEEP TAKING ME TO THIS WEIRD *WEBSITE*?

DOOGIE GOT US INFECTED *AGAIN!*

WELL THIS ISN'T A SURPRISE.

DR. HOWSER CLICKS *ANYTHING*.

LOOKS LIKE WE NEED TO UPDATE ALL ENDPOINT SYSTEM *JAVA ASAP!*

*FIREPOWER* UPDATED OUR DEFENSES.

I'LL CHECK IF THE MALICIOUS SOURCE IS BLOCKED.

*FIREPOWER* CAN LEARN FROM *AMP* TO AUTO ADAPT TO NEW *VULNERABILITIES* PREVENTING FUTURE EXPLOITATION.

GLAD MY HOSPITAL STAFF IS SO *ROCK SOLID*.

THREAT *REMOVED*. WE ARE READY IF IT HAPPENS *AGAIN*.

THE EXTERNAL SOURCE LINKED TO THE ATTACK CAN ALSO BE *AUTO BLACKLISTED!*

# TARGET RESEARCH



## RECONNAISSANCE\*

The first step in a cyber attack. This is where you learn as much as possible about the target. The more you know, the more likely you will find the quickest and most effective attack strategy.

## VULNERABILITIES\*

Weakness in a system that can be exploited. This could be a configuration error, missing patch, flaw in design or many other factors happening at any moment.

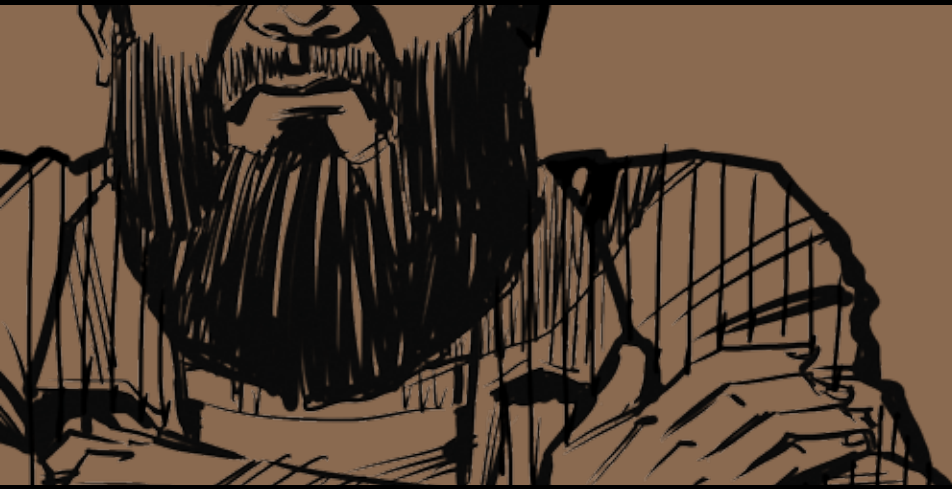
Security tools such as anti-virus and IPS look for attacks against vulnerabilities using signatures of known exploitation.

## EXPLOITS\*

Abusing a vulnerability to achieve an outcome. Result could be planting a Remote Access Tool (RAT), delivering Ransomware, Crashing the system, etc.

\*Recon finds Vulnerabilities that can be Exploited





## **Insider Threats**

Chapter Three

LATER

"MANY DARKNET SOURCES SELL  
STOLEN CREDENTIALS."

I CAN **BUY**  
MY WAY INTO  
THE **NETWORK**.

LET'S SEE  
IF MR. GREEN IS  
AVAILABLE.

"I KNOW SOMEBODY THAT CAN GET  
ME INSIDE THE **HACKMDS NETWORK**."

MR. BROWN CAN  
THEN **COLLECT** MY  
DATA ONCE I GET  
HIM **INSIDE**.

### Mr. Brown (alias)

Linked to sales of black market  
pharmaceutical drugs

Associated with a mafia organization

Street criminal for hire

"LET'S LOOK AT MY NOTES AGAIN."

PERIMETER SECURITY IS NOT 100%.

YOU SHOULD ASSUME YOU WILL EVENTUALLY HAVE YOUR NETWORK *COMPROMISED*.

### Notes

- Various users and devices
- Perimeter security focused
- Possibly a flat network
- High dollar data
- Skeleton IT staff
- Blind to Insider threats
- Lack internal monitoring

BREACH TECHNOLOGY IS DESIGNED FOR DETECTING INSIDER THREATS

I CAN GET YOU INTO AN *INTERNAL* MEDICAL UNIT

USING STOLEN, AUTHORIZED CREDENTIALS TO BYPASS PERIMETER DEFENSES.

### Mr. Green (alias)

Financial advisor on paper but also involved with money laundering

Known for stolen credentials

Minor drug related arrests

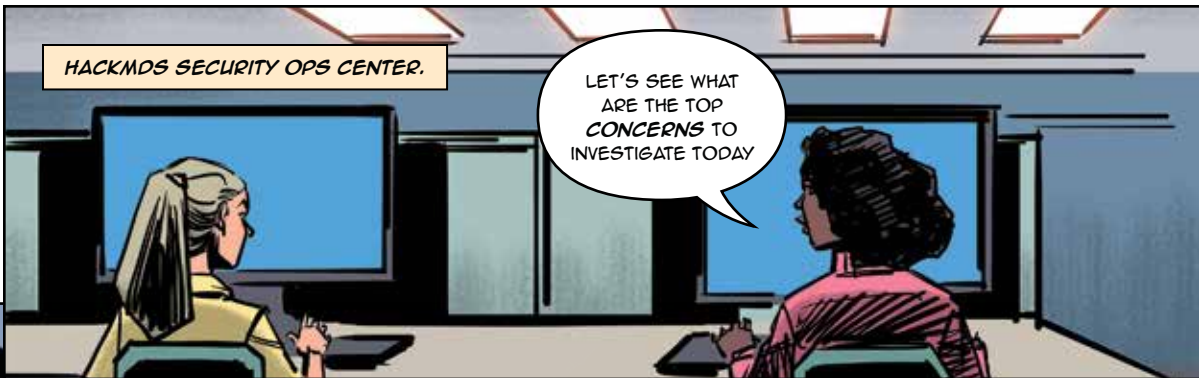
10:37 Mr Black - Perfect. Now Mr Brown can bring me the goods.

10:37 Mr Brown - I'll find the data and send it to your cloud drive.

ONCE INSIDE THE HACKMDS NETWORK

MR. BROWN CAN IDENTIFY AND CONNECT TO OTHER SYSTEMS.

10:37 Mr Black - Use this login to access HackMDS network.



HACKMDS SECURITY OPS CENTER.

LET'S SEE WHAT ARE THE TOP CONCERNS TO INVESTIGATE TODAY



WHY IS DR. HOWSER LOGGING INTO HIPAA SERVERS LIKE THAT?

STEALTHWATCH SHOWS SECURITY AND NETWORK EVENTS BASED BEHAVIOR AND CONCERN TRIGGERS.



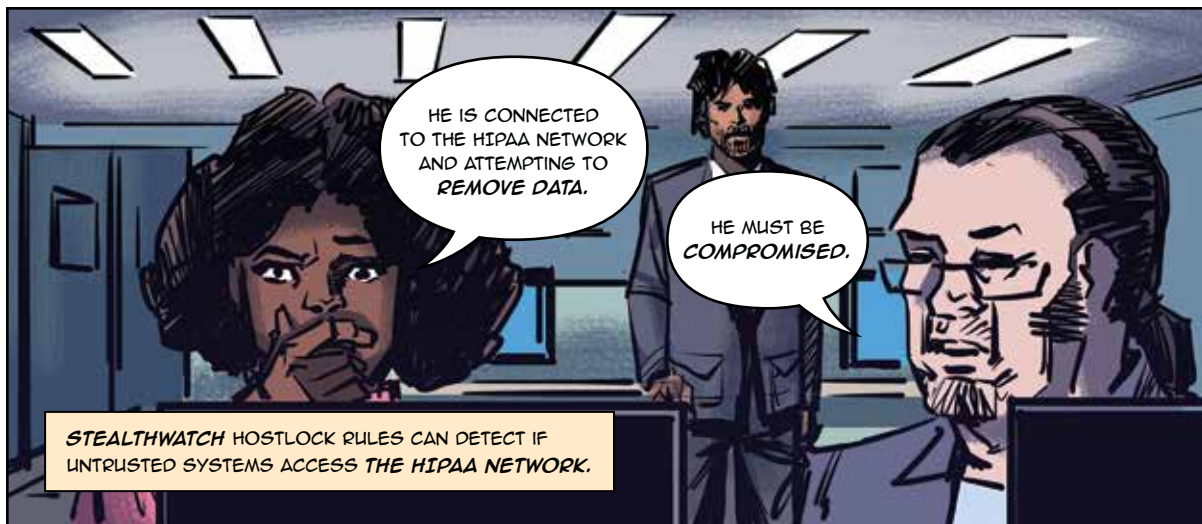
"WAIT, NOW HE'S SCANNING THE NETWORK FTP?"

COME TO DADDY.

NETFLOW CAN GIVE ALL COMMON NETWORK DEVICES SECURITY DETECTION CAPABILITIES.



DR. HOWSER'S ACCOUNT HAS NOW SCANNED THE HIPPA NETWORK!



HE IS CONNECTED TO THE HIPAA NETWORK AND ATTEMPTING TO REMOVE DATA.

HE MUST BE COMPROMISED.

*STEALTHWATCH* HOSTLOCK RULES CAN DETECT IF UNTRUSTED SYSTEMS ACCESS THE HIPAA NETWORK.



DR. HOWSER'S SYSTEM IS NO LONGER A THREAT.

CALL DR. HOWSER.

NOW!



DR. HOWSER, YOU HAVE A CALL.



I HAVE NOT TOUCHED A COMPUTER ALL DAY.



DON'T WORRY.

WE QUARANTINED ALL COMPROMISED SYSTEMS AND RESET YOUR LOGIN.

*STEALTHWATCH* CAN TRIGGER CISCO IDENTITY SERVICES ENGINE TO QUARANTINE ALL CRITICAL THREATS.

# HEY KIDS

There are lots of things to remember about **EXCELLENT** Cyber Threat Response! We know it's a lot to learn, but Cisco has you covered!

There isn't a silver bullet for providing 100% protection against cyber crime. Sorry... we can't promise that.  
**NOBODY CAN!**

**SILVER BULLET**

# MYTH

**REDUCE**

# RISK

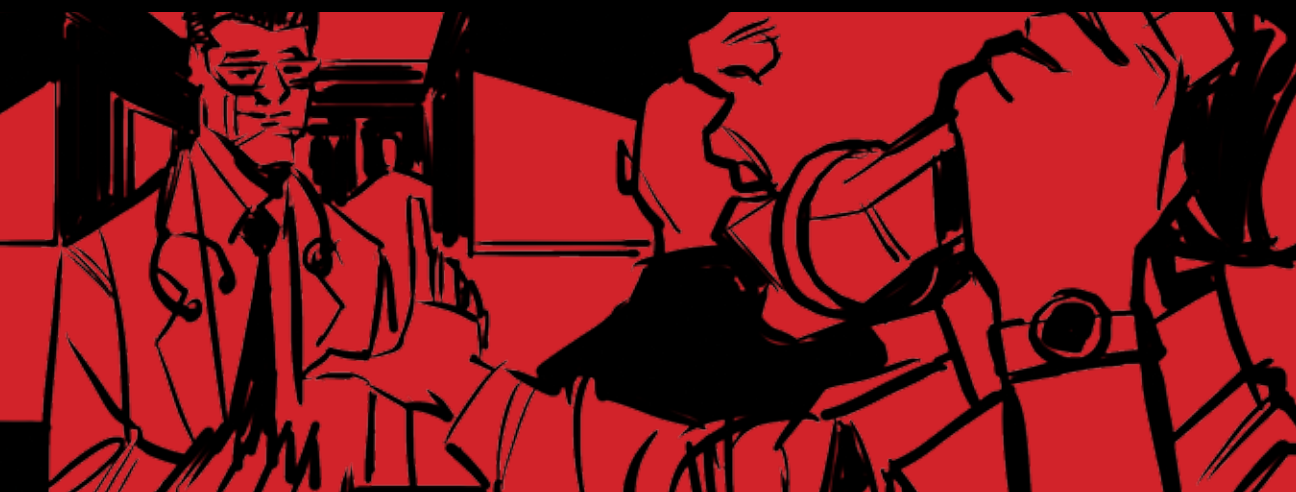
You can, however, learn to reduce the risk of being compromised to an acceptable level using industry best practices for security architecture.

The Cisco Cyber Threat Response Clinics give you hands-on experience as both **ATTACKER** and **DEFENDER** so you can better understand both sides of the cyber **CAT AND MOUSE** game.

# EDUCATE

**YOURSELF**

# CTR HEROES ACTIVATE!



## Compromised Laptop

### Chapter Four

THE NEXT MORNING

I CAN CREATE A FAKE FANTASY STATS PAGE AND EMAIL HIM A LINK TO HIS PERSONAL ACCOUNT.

"DR. HOWSER LIKES *FANTASY FOOTBALL* ACCORDING TO FACEBOOK.

"IT WILL DROP *MALWARE* ONTO HIS SYSTEMS WHEN HE ACCESSES THE WEBSITE FROM *HOME*.

"DR. HOWSER WILL GO BACK TO WORK AND CONNECT HIS INFECTED SYSTEM TO THE HACKMDS NETWORK.

GIVING ME INSIDE ACCESS.

"LET'S LOOK AT MY NOTES ON THIS TARGET.

### Notes

- People will click anything without thinking about it
- Limited host security software that is based on signatures
- HackMDS not responsible for user's home network
- Compromised hosts can provide internal access for outsiders
- Social engineering is extremely effective

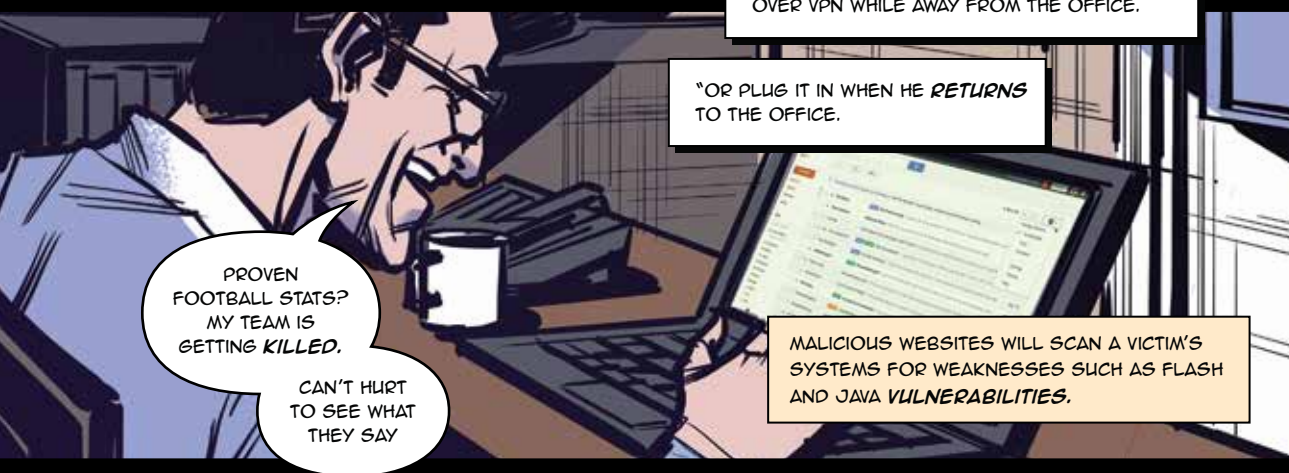




EMAIL SENT

LET'S SEE IF DR. HOWSER WILL ACCESS MY FAKE WEBSITE.

"DR. HOWSER WILL CONNECT HIS LAPTOP OVER VPN WHILE AWAY FROM THE OFFICE.

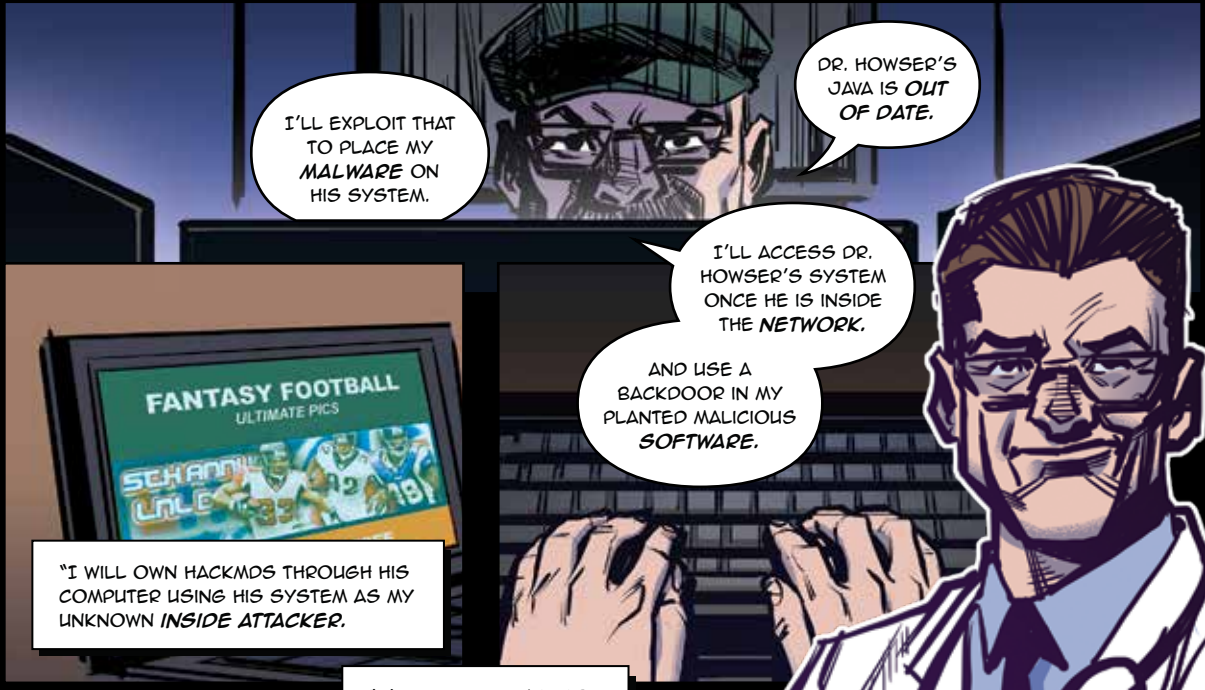


PROVEN FOOTBALL STATS? MY TEAM IS GETTING KILLED.

CAN'T HURT TO SEE WHAT THEY SAY

"OR PLUG IT IN WHEN HE RETURNS TO THE OFFICE.

MALICIOUS WEBSITES WILL SCAN A VICTIM'S SYSTEMS FOR WEAKNESSES SUCH AS FLASH AND JAVA VULNERABILITIES.



I'LL EXPLOIT THAT TO PLACE MY MALWARE ON HIS SYSTEM.

DR. HOWSER'S JAVA IS OUT OF DATE.

I'LL ACCESS DR. HOWSER'S SYSTEM ONCE HE IS INSIDE THE NETWORK.

AND USE A BACKDOOR IN MY PLANTED MALICIOUS SOFTWARE.

"I WILL OWN HACKMDS THROUGH HIS COMPUTER USING HIS SYSTEM AS MY UNKNOWN INSIDE ATTACKER.

"I'LL CALL HIM MR. RED.

### Mr. Red (alias)

This could be anybody within the organization knowingly or unaware

Example: Breached system is used remotely by a hacker to access internal sources



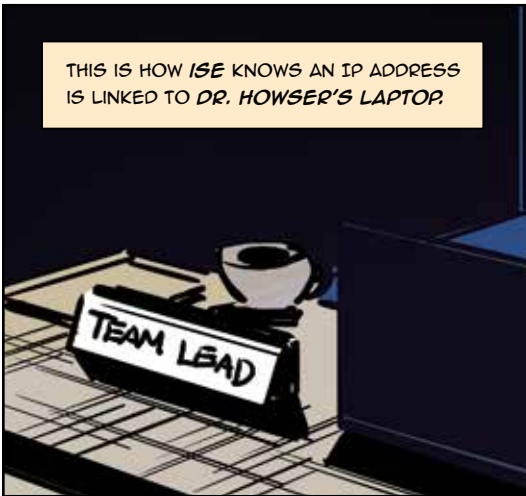


HACKMDS SECURITY OPS CENTER.

INTERESTING  
FIREPOWER SAYS ONE OF OUR USERS IS COMPROMISED.



ISE EVALUATES DEVICES BEFORE THEY ARE PERMITTED ACCESS AND SHARES CONTEXT WITH OTHER TECHNOLOGIES.



THIS IS HOW ISE KNOWS AN IP ADDRESS IS LINKED TO DR. HOWSER'S LAPTOP.

HI BOSS.



CAN YOU SWING BY MY OFFICE? WE HAVE A PROBLEM.



ISE USES TRAFFIC SEEN FROM DEVICES VS MAC ADDRESS TO DETERMINE WHAT THEY ARE.

FIREPOWER CAN ALERT ISE TO QUARANTINE ANY DEVICE SEEN AS COMPROMISED.

THE FIREPOWER AND ISE COMBINATION CAN PROVIDE 24/7 SECURITY MONITORING ...

AND ENFORCEMENT OF POLICY ON ALL DEVICES ACCESSING THE NETWORK.

THAT'S DR. HOWSER'S PERSONAL WINDOWS LAPTOP CAUSING THESE ISSUES

DR HOWSER'S LAPTOP HAS BEEN OWNED AND VPINED INTO OUR NETWORK.

\$#@%!!

HOW DID THIS HAPPEN?

SOMEBODY GET HIM OFF THE NETWORK!

SEEMS LIKE DR. HOWSER'S SYSTEM IS BEING USED AS AN ATTACKER'S PROXY OVER VPN.

NO NEED TO REMOVE HIM. THE NETWORK SAW THE ISSUE.

IT AUTO QUARANTINED HIM.

WOW!

MY NETWORK IS A SECURITY BOUNCER AND ENFORCER.

STEP AWAY FROM THE NETWORK SIR.

SECURITY

# THREAT RESPONDERS WANTED

# CTR CLINIC 2.0\*

\*The Cyber Threat Response

Your **EXCLUSIVE** training platform for learning a range of Cisco Security products and integrated solutions

**VOUCHER  
CODE:**

**^^Un1z**

## LEARN

- How environments get compromised
- How breaches get discovered
- How to respond most effectively with Cisco security products and solutions

## EXPERIENCE

- Cyber security attack situations in a virtual lab environment
- Play as both **ATTACHER** and **DEFENDER**



Hands On



8 Modules



Core  
Certification



Real-World  
Attacks

Use the Voucher Code Above to receive **EXCLUSIVE** access!

Enjoy this unique lab oriented, hands-on learning and solution demonstration clinic **TODAY!**

## APPLY TODAY!

**CLIP** and **MAIL\*** to your Cisco Account Manager **TODAY** to reserve your spot and get your learn on!

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

\*or visit [www.cisco.com/go/security](http://www.cisco.com/go/security)



**Attack The Branch**  
Chapter Five

LATER

BRANCH OFFICES  
TYPICALLY CONNECT BACK  
TO THE HEADQUARTERS  
OVER A TRUSTED VPN  
CONNECTION.

I BET THEY HAVE  
**WEAK SECURITY**  
POLICIES AT THEIR  
REMOTE BRANCHES.

I CAN'T BELIEVE  
I HAVEN'T **OWNED**  
THIS HOSPITAL YET.

"I CAN OWN THE HQ THROUGH **THE BRANCH!**"

"LET'S LOOK AT MY NOTES ON  
**THIS TARGET.**"

### Notes

- Security ops typically @HQ
- Branch security is not as important as HQ
- Limited local IT resources
- Scalability challenges
- Branch tunnels back to HQ bypassing HQ security
- Busy environment

LATER OVER A SECURE IRC CHANNEL

08:03 Mr Black - I need a physical device planted at a branch office.

THERE ARE TONS OF TOOLS THAT CAN DO THIS.

### Mr. White (alias)

Government engineer and hardware hacking hobbyist

Develops bypass tools

Rarely involved with crime but against "The Man"

08:03 -- They probably don't enforce security at remote locations.

08:03 Mr White - I'll plant a Pwnie Express at one of their branch offices.

A PWN PLUS LOOKS LIKE A COMMON PLUS, HOWEVER, IS LOADED WITH ATTACKER TOOLS.

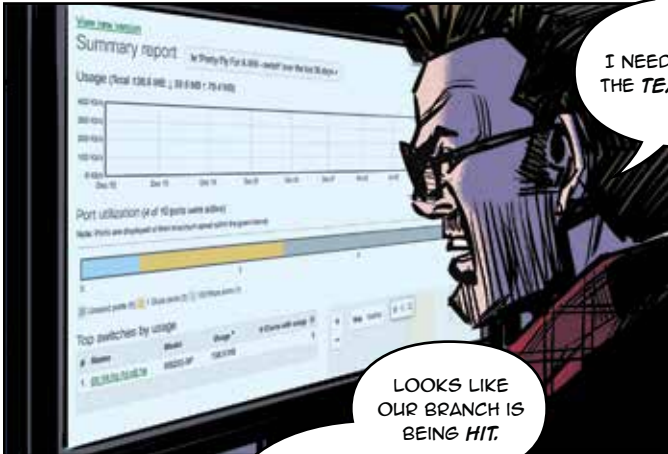
08:03 Mr Black - Once we have access to the branch network, we can hit other internal targets including the HQ through their site-to-site VPN.

08:03 Mr White - I'll pretend to hurt myself skating and plant the tools on site.

HACKMDS SECURITY OPS CENTER



SEEING SOME WEIRD ACTIVITY AT OUR DC BRANCH.



I NEED TO GRAB THE TEAM LEAD.

LOOKS LIKE OUR BRANCH IS BEING HIT.



GOOD THING I JUST PURCHASED THAT CISCO MERAKI AND UMBRELLA STUFF FOR OUR BRANCHES.



BUT I JUST STARTED!

I CAN'T FLY DOWN THERE, CONFIGURE AN APPROVED HACKMDS SECURITY POLICY AND GO LIVE RIGHT NOW.

THIS WILL TAKE WEEKS!



RELAX NOOB. **MERAKI** AND **UMBRELLA** ARE MANAGED FROM THE CLOUD.

WE CAN CONFIGURE **EVERYTHING** RIGHT NOW BEFORE THE HARDWARE IS PLUGGED IN.

**CLOUD MANAGED TECHNOLOGIES** ARE IDEAL FOR BRANCH LOCATIONS DUE TO FLEXIBILITY IN DEVELOPMENT AND **MANAGEMENT**.

**MERAKI** USES **FIREPOWER** IPS AND AMP.

WE CAN **ENABLE** SIMILAR POLICIES TO OUR HQ IN A FEW CLICKS.

ALL WE NEED IS TO GET SOMEBODY AT THE DC BRANCH TO PLUG IT IN AND IT WILL GRAB THE **CONFIGURATION** FROM THE CLOUD.

LATER

HI BOSS. WHAT'S UP??

I'M GETTING CALLS ABOUT NETWORK **ISSUES** AT THE DC BRANCH!

NO WORRIES. WE JUST DEPLOYED NEW SECURITY FROM **CISCO**.

NOW WE ARE **BLOCKING** THE THREAT.

**WOW!**

I JUST HEARD ABOUT THIS ATTACK THIRTY MINUTES AGO AND WE ALREADY DEPLOYED NEW SEC?

87104105116101

"I'M GOING TO GET A PROMOTION FOR THIS!"

STATE  
BACKUP

THE TAKEDOWN.

MR BLACK'S TEAM FAILED TO STEAL DATA FROM HACKMDS.

DURING THE PROCESS, MR. WHITE AND MR. ORANGE WERE ARRESTED.

7911497110103101  
CYBER STATE  
LOCKUP

981089799107  
CYBER STAT  
LOCKUP

MR. WHITE WAS CAPTURED ON VIDEO PLANTING A MALICIOUS BACKDOOR TOOL AT A HACKMDS DC BRANCH OFFICE.

MR. ORANGE'S REMOTE ATTACK GENERATED LOGS, WHICH CISCO TALOS AND HACKMDS USED TO IDENTIFY HIS LOCATION

FEDERAL AUTHORITIES CONFISCATED MR. ORANGE'S LAPTOP AND MR. WHITE'S IPHONE TO GET MR. BLACK'S CONTACT INFO.

71114101101  
CYBER STATE  
LOCKUP

87104105116101  
CYBER STATE  
LOCKUP

AFTER IMPERSONATING MR. WHITE, THE FBI WAS ABLE TO CATCH MR. BLACK MARKETING FAKE STOLEN DATA

AND TAKE HIM DOWN!

PUTTING HIM AWAY FOR ENOUGH TIME TO END HIS CRIMINAL CAREER.

UNTIL THE NEXT ADVENTURE

83116111114109  
CYBER STATE  
LOCKUP

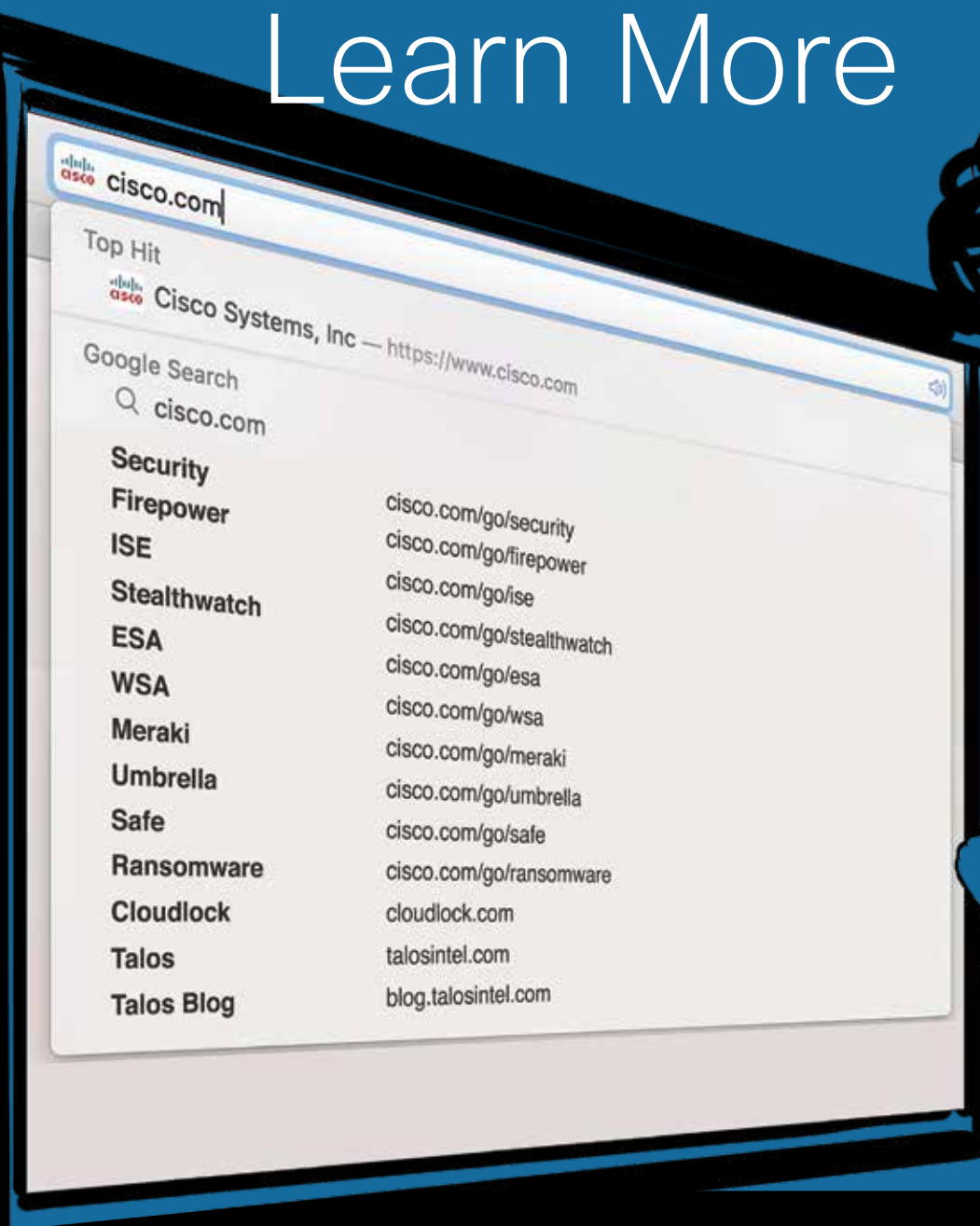
66108117101  
CYBER STATE  
LOCKUP

STAY SECURE!





# Learn More



**We hope you enjoyed the Cisco Cyber Threat Response Clinic!**

Make sure to come back and complete any modules you didn't have a chance to work on and check back for more future modules!



# Cisco Security Product Suite

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## Firepower

URL, IPS, and Breach security



## VPN

Encrypted communication



## Cisco Umbrella

DNS Security and forensics



## Stealthwatch

Netflow anomaly monitoring and breach detection



## ESA

Email security for cloud and on-prem



## CloudLock

Cloud application security



## ISE

Access control and security policy management



## Threatgrid

Threat analytics, detection and prevention



## Meraki

Cloud managed security, network and collaboration



## Talos

Security research and threat intelligence



## AMP

Advanced breach detection for endpoint and network



## WSA

Secure proxy, content control and security

---

Physical · Virtual · Cloud