



HACKERS ARE STUDYING YOU RIGHT NOW

Hackers conduct cyber reconnaissance on you:

- Discover your Internet footprint
- Identify weak links





SECURITY ANALYSIS

We conducted the same cyber reconnaissance as a hacker --

6 Industries

250 Companies

100,000 Active Assets





THE TOOL WE USED







DATA COLLECTED IN 5 CATEGORIES



Ranked by level of risk





GRADING SCALE

Vigilance required

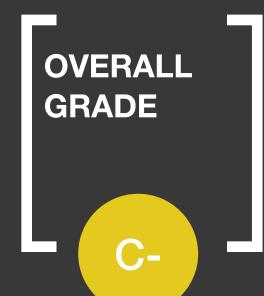
- A It would take world-class, state-sponsored hackers to exploit
- Skills of persistent, experienced hackers are required

Urgent action required

- Average hackers are capable of exploiting
- Beginner hacker practicing their skills
- Script kiddies can hack (i.e. 6th Graders)







Organizations averaged a C- grade when measured across all categories

Overall, organizations urgently need to protect themselves from novice-to-average hackers





CREDENTIAL MANAGEMENT









WHY IS
CREDENTIAL
MANAGEMENT
SO
IMPORTANT?

Hackers use credentials to bypass anti-spam and firewall devices and access users' accounts, then access network and systems

6 out of 10 confirmed data breaches in 2016 leveraged weak, default or stolen passwords. ³

Nearly 75% of people still use duplicate passwords across multiple systems!







HIGH PRIORITY. LOW GRADE.

CREDENTIAL MANAGEMENT



Urgent! Beginners can use you for target practice.

NormShield found a whopping 95% of respondents had exposed user credentials









SIMPLEST THING TO DO

CREDENTIAL MANAGEMENT

Require employees to change passwords at least quarterly with a minimum length of 16 characters

Preferably implement 2FA company-wide

Assume the credentials have leaked and go looking for them regularly





VULNERABILITIES







WHY ARE THEY IMPORTANT?

VULNERABILITIES



- A vulnerability is a hole or a weakness in the application
- It can be a design flaw or a bug
- Attackers exploit to harm the application owner, application users, and other entities that rely on the application





PRIORITY NEED FOR ALL

VULNERABILITIES





Beginner to average hackers are capable of exploiting!

NormShield scanned web applications and network systems against a database of thousands of known vulnerabilities and ranked them in order of severity.







ADDITIONAL FINDINGS

VULNERABILITIES

- 10%+ of respondents had at least one critical issue in web or network assets
- Most had issues due to web servers and applications that were 5+ years old, with unpatched vulnerabilities

Most common & critical vulnerabilities found

- 1. Misconfiguration
- Denial of Service (DoS)
- Information Exposure





SIMPLEST THINGS TO DO

VULNERABILITIES



Monitor/scan public facing systems for known vulnerabilities and apply the patch!

- 1. Make a list of all security controls and configurations routers, firewalls, IDSes, AV...
- 2. Establish the frequency of vulnerability scanning; compare your report against inventory/ control list





IP/DOMAIN REPUTATION









WHY IS IP/ DOMAIN REPUTATION IMPORTANT?

- Employees may download applications that compromise computers and network
- As a result, IP address can become part of a hacker's network, hosting malware
- This can compromise the company's brand reputation and lead to a breach

Hackers can leverage IPs for Advanced Persistent Attacks







MANY COMPANIES FAILED

IP/DOMAIN REPUTATION



Urgent! Beginners can use you for target practice.

NormShield checked to see if an organization's IP address has been associated with any blacklists or otherwise involved in malicious activity.

3 of every 5 companies received a D or lower!!





SIMPLEST THINGS TO DO

IP/DOMAIN REPUTATION



- Monitor the reputation and categorization of your website
- 2. Ask reputation and content filtering sites to properly categorize your website
- 3. Block unexpected/malicious traffic on the firewall
- 4. Change the default resolving IP address of all domains to a whitelisted IP or a loopback IP
- 5. If possible, avoid using shared servers / IPs with other domains





INDUSTRY REPORT CARDS

SCORECARD	CREDENTIAL MANAGEMENT	VULNERABILITIES	IP/DOMAIN REPUTATION	SSL Strength	DNS Security
Financial Services	D	C-	C-	C-	B-
Education	F	D	D+	C+	B+
Healthcare	D	C-	C-	C-	B-
Retail	F	C-	D+	C-	B-
Technology	D	D+	D+	С	В
Professional Services	F	D	D-	С	B+



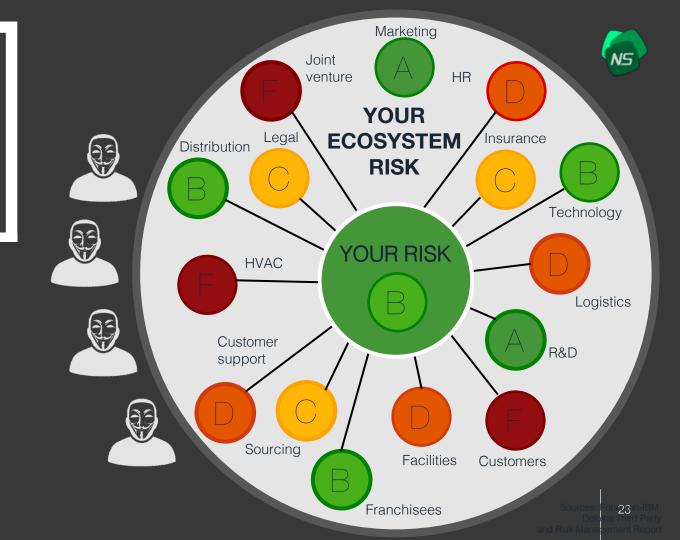
You are only as secure as your weakest partner

63% of breaches originate from hacked 3rd parties

(SOHA Systems)

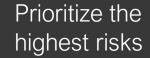


WHAT IF YOU
COULD SEE
WHAT HACKERS
SEE?

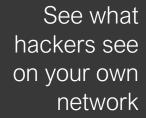




FIND YOUR RISKIEST ASSETS BEFORE THEY DO



- Then fix them





See what hackers see across your ecosystem

Then set vendor policies





SEE HOW YOU STACK UP

Request your free customized Risk Scorecard

www.normshield.com





ABOUT NORMSHIELD

The NormShield Cloud platform automates unified vulnerability management, cyber threat intelligence, and risk scoring. CISOs receive letter-grade risk scorecards to make informed decisions. Security teams receive orchestrated, prioritized reporting and automated ticketing for swift action.

NormShield also provides Ecosystem Risk Scorecards to protect you from third party risk.