

# Eat'n Park OSINT

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For Emerging Topics in Cybersecurity (CYBS-4360-A),  
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# Intro

- Open Source Intelligence (OSINT) - The gathering of publicly available information and data for any kind of intelligence purpose.
- Done to understand an organization's security landscape better, how it handles risks, and defend against attacks.
- Our group consisting of Eric Miller and Zarek Rush conducted an OSINT assessment against Eat'n Park.
- This assessment will include information gathered from online tools, websites, and in person gatherings to gather as much information as possible from every angle.

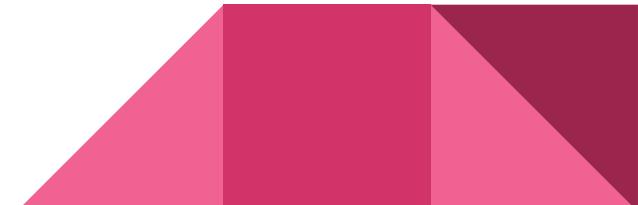
# Rationale

- Family-Owned Local company with large amounts of locations.
  - Not as knowledgeable in security standards
  - Large attack surface
  - Not as much money to spend on security as big companies
- Over 8,000 employees.
  - Higher employee amount means higher chance of social engineering attacks being successful
- Easily accessible to conduct in person OSINT reconnaissance.



# Methodology

- Physical
  - Acting as a regular customer use tools such as bluetooth scanners and Wi-Fi scanners.
- Digital
  - Use websites and tools such as Hunter.io, Nikto, URLscan, and Hudson Rock to discover publicly available information about Eat'n Park and it's security landscape.



# Targets

- Known problems in security.
- Employee email addresses.
  - For social engineering attacks or involvement in data breaches
- Weakness in Wi-Fi security or bluetooth devices.
  - Such as weak or default passwords
- Known Eat'n Park systems.
  - See if any exploits exist for them



# Information Gathered - Hunter.io

Domain search: eatnpark.com

Type Department Show only results with

19 results for your search

[Export](#) [Find by name](#)

Name	Title	Actions
Kristen Klein	Cover Manager	<a href="#">Save as lead</a> <a href="#">Add to a campaign</a>
jklein@eatnpark.com		<a href="#">Verify email address</a>
1 source		
Jim Broadhurst	Vice Chairman	<a href="#">Save as lead</a> <a href="#">Add to a campaign</a>
jimbroadhurst@eatnpark.com		<a href="#">Verify email address</a>
99%		
8 sources		
<a href="http://notpsu.blogspot.com/2012/08/psu-board-of-trustees-how-to-impact-bot.html">http://notpsu.blogspot.com/2012/08/psu-board-of-trustees-how-to-impact-bot.html</a>	Mar 16, 2025	
<a href="http://dokument.pub/dl/okmt22directoryv3-website-flipbook-pdf">http://dokument.pub/dl/okmt22directoryv3-website-flipbook-pdf</a>	Feb 21, 2025	
<a href="http://notpsu.blogspot.com/2014/03/the-penn-state-university-board-of.html">http://notpsu.blogspot.com/2014/03/the-penn-state-university-board-of.html</a>	Jan 21, 2025	
Removed <a href="http://bagwellforpennstate.com/wp-content/uploads/2013/12/201112-061934-p...">http://bagwellforpennstate.com/wp-content/uploads/2013/12/201112-061934-p...</a>	Nov 11, 2024	
Removed <a href="http://notpsu.blogspot.fr/2014/03/the-penn-state-university-board-of.html">http://notpsu.blogspot.fr/2014/03/the-penn-state-university-board-of.html</a>	May 20, 2019	
Removed <a href="http://psu-rebot.org/index.php/trustee-emails">http://psu-rebot.org/index.php/trustee-emails</a>	Jan 04, 2018	
Removed <a href="http://mgoblog.com/mgoboard/mgopolis-do-you-want-see-maryland-big">http://mgoblog.com/mgoboard/mgopolis-do-you-want-see-maryland-big</a>	Aug 07, 2017	
Removed <a href="http://mgoblog.com/mgoboard/case-rutgers">http://mgoblog.com/mgoboard/case-rutgers</a>	Jul 21, 2017	

Jamie Moore  
jmoore@eatnpark.com

93% [Verify email address](#)

1 source

Robert Pastore  
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4 sources

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Writing & Communication

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5 sources

Trina Demarco  
tdemarco@eatnpark.com

94% [Verify email address](#)

1 source

[http://cmu.edu/news/stories/archives/2011/july/july25\\_fitwits.html](http://cmu.edu/news/stories/archives/2011/july/july25_fitwits.html)

26, 2025

Jamie Moore  
jmoore@eatnpark.com

Save as lead

# Information Gathered - URLscan

[www.eatnpark.com](http://www.eatnpark.com)

72.32.109.21

URI: <https://www.eatppark.com/>

Submission: On April 19 via manual (April 19th 2025, 2:19:40 am UTC) from  US – Scanned from  PT

Submission: On April 19 via manuscript (April 19th 2023, 2:19:40 am UTC) from US

[Summary](#) [HTTP 2.0](#) [Redirects](#) [Links 12](#) [Behaviour](#) [Indicators](#) [Similar](#) [DOM](#) [Content](#) [API](#) [Verdicts](#)

## Summary

This website contacted 14 IPs in 4 countries across 13 domains to perform 73 HTTP transactions. The main IP is 72.32.109.21, located in Hughes, United States and belong to RMH-14, US. The main domain is [www.eatnpark.com](http://www.eatnpark.com).

[www.eatnpar.com](#) scanned 2 times on urlscan.io

## Live information

Google Safe Browsing:  No classification for [www.eatnpark.com](http://www.eatnpark.com)  
Current DNS A record: 72.32.109.21 (AS33070 - RMH-14 US)

## Domain & IP information

IP/ASNs	IP Detail	Domains	Domain Tree	Links	Certs	Frames
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Apex Domain

45 eatnpark.com

6 googletagmanager.com

3 google.com  
  ■ www.google.com – Cisco Umbrella Rank: 3  
  ■ region1.analytics.google.com – Cisco Umbrella Rank: 4081

3 gstatic.com

[Lookup](#)

A screenshot of the Eat'n Park website's homepage. The top navigation bar includes links for Home, Menu, Sides, Bakeries, Freshness, and Delivery. A large banner on the left features the text "Get Egg-cited FOR EASTER SMILEY COOKIES!" above an image of several decorated cookies. Below the banner is a call-to-action button labeled "Pick Up A Takeout To-Go". The main menu on the right lists items like Breakfast, Soups & Salads, Sandwiches, Entrees, and Desserts. A promotional box for "Easter Smiley Cookies" shows a large purple butterfly-shaped cookie and smaller ones in pink and yellow. The bottom of the page features a "Stop In & Create a Smile today!" call-to-action.

Page Title

## Detected technologies

Bootstrap (Web Frameworks)

Overall confidence: 100%

- Detected patterns
  - <link[^>]\* href=[^>]\*?bootstrap[^>]\*?[(0-9a-fA-F){7,40}][\d]+?[^>\*\d]+?[^>\*\d+?)]|[^>]\*?[^>\*\min]?css
  - bootstrap[^>]\*?[(0-9a-fA-F){7,40}][\d]+?[^>\*\d]+?[^>\*\d+?)]|[^>]\*?[^>\*\min]

 Facebook Widgets

Google Analytics Analytics

Google Analytics (Analytics)

 Google Font API (Font Scripts)

Google Tag Manager (tag)

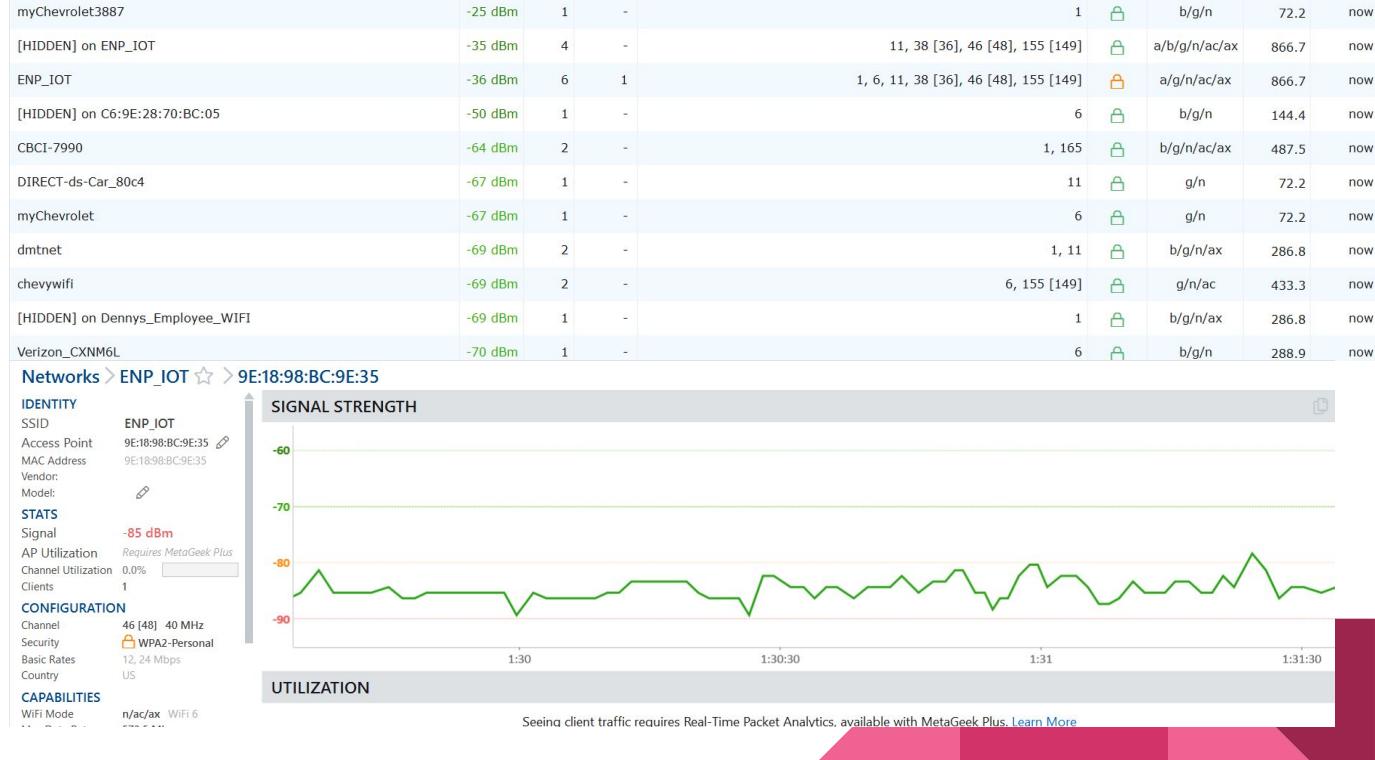
- Notable Information: Bootstrap is known for having XSS exploits across numerous software versions, as seen here:  
<https://security.snyk.io/package/npm/bootstrap>

# Information Gathered - In Person Gathering

- Location used - 7370 McKnight Rd. Pittsburgh PA.
- LightBlue bluetooth scanner revealed nothing.
- No public Wi-Fi.
  - Was told to use Denny's Wi-Fi from across the street.
- IoT network was not hidden.
  - Weak passwords and default passwords guessed, did not work
  - Used inSSIDer to gather information

# Information Gathered - In Person Gathering: inSSIDer

- [HIDDEN] on C6... suspected to be managerial or employee Wi-Fi.
- IoT network uses WPA2.



# Information Gathered - Nikto Network Scan

## Overall Risk Assessment of Network

Issue	Severity	CVE/Exploit Potential
TRACE method enabled	Medium–High	XST
Internal IP leakage	Medium	<a href="#">CVE-2000-0649</a>
Server/version disclosure	Low–Medium	Reconnaissance
Missing security headers	Low	Browser-side abuse
Unrestricted HTTP methods	Low–Medium	Recon, method abuse

# Information Gathered - Hudson Rock



23

Compromised Users



5

Compromised Employees



4

Third Party Employee Credentials

## Infostealer Malware Used

A total of 56 infections were linked to eatnpark.com credentials:

- RedLine – 36 infections
- Lumma – 10 infections
- StealC – 2 infections



## External Attack Surface

- <https://sso.eatnpark.com/adfs/ls/> - Employee
- <https://sso.eatnpark.com/adfs/ls> - Employee
- <https://order.eatnpark.com/checkout> - User
- <https://order.eatnpark.com> - User
- <https://order.eatnpark.com/login> - User

# Information Gathered - ';--have i been pwned?

The employee emails gathered from [hunter.io](#):

- 6 out of the 10 were involved in numerous data breaches
- Half of the breached emails included passwords and personal data
  - Credit status information, Ethnicities, Family structure, Financial investments, Home ownership statuses, Income levels, IP addresses, Marital statuses, Net worth, Occupations, Personal interests, Phone numbers, Physical addresses, Religions, Spoken languages, Geographic Locations
- All of the emails were involved in multiple breaches
  - The most breached one was involved in 18

# Analysis

- Hunter.io revealed multiple high-level and low-level employee emails.
- URLscan revealed the IP address used to host Eat'n Park's website and the detected technologies used in the website.
  - Bootstrap, a web framework has been known to have XSS vulnerabilities in the past
- On site gathering was lackluster.
  - No information gained from LightBlue
  - No public Wi-Fi
  - Little information gained with inSSIDer
  - Discovered probable hidden network
  - Samsung and Cisco devices were connected to the IoT network

# Analysis

Nikto Network scan revealed an array of vulnerabilities



- Trace Enabled
  - cross-site tracing attacks, allowing attackers to steal authentication cookies or headers that are not normally accessible via JavaScript due to browser security restrictions
- Server/Version Disclosure
  - version-based exploits or targeted CVEs on the network
- Missing security headers
  - MIME-sniffing, clickjacking, XSS, inline JS, and data injection
- Internal IP leakage
  - an attacker could learn the internal IP structure and pivot through the network in Server-side request forgery or internal recon
- Unrestricted HTTP methods
  - potential method override attacks for bad threat actors

# Analysis



- Hudson Rock
  - Revealed the company's attack surfaces and all known employees and users accounts and machines that were affected
- Haveibeenpwnded?
  - Showed all the emails that were compromised and what data was leaked

# Threat Analysis

- Vulnerable assets found.
  - Email addresses
  - Home addresses
  - Employee names
  - Phone numbers
- Good on-location security.
- Known to be vulnerable to malware.
- Overall, best to attack its employees through social engineering attacks and malware as it is known to work.



# Conclusion

- Main weakness is employees.
  - Involved in numerous data breaches
  - Very vulnerable to malware attacks
- Suggest social engineering attacks as an entrance.
  - Spear phishing
  - Whaling
  - Leaving around malicious USBs
    - Number of attacks using this method have multiplied in recent years
- Common form of attacking, but proven to work and the information to do so is available.



# Conclusions - Defensive Measures

- Difficult to defend against knowledgeable or uncaring employees.
  - We suggest a training program to enforce learning
- Instate company policies.
  - Do not use company emails for outside work purposes
- MFA.
  - Basic security measure
  - Ensures that even with credential leaks, attackers cannot gain access to accounts

**How to ensure  
employees  
comply with  
policies**

**keyzo**  
IT Solutions

