

# Data Security and The 2020 Assessment Update

Municipal Property Assessment Corporation

September 19, 2019



# MPAC Municipal and Stakeholder Relations Team

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Carmelo Lipsi, Vice-President, Valuation & Customer Relations & Chief Operating Officer

Chris Rickett, Director, Municipal and Stakeholder Relations

**Local Support in your Community**



# MPAC and the 2020 Assessment Update



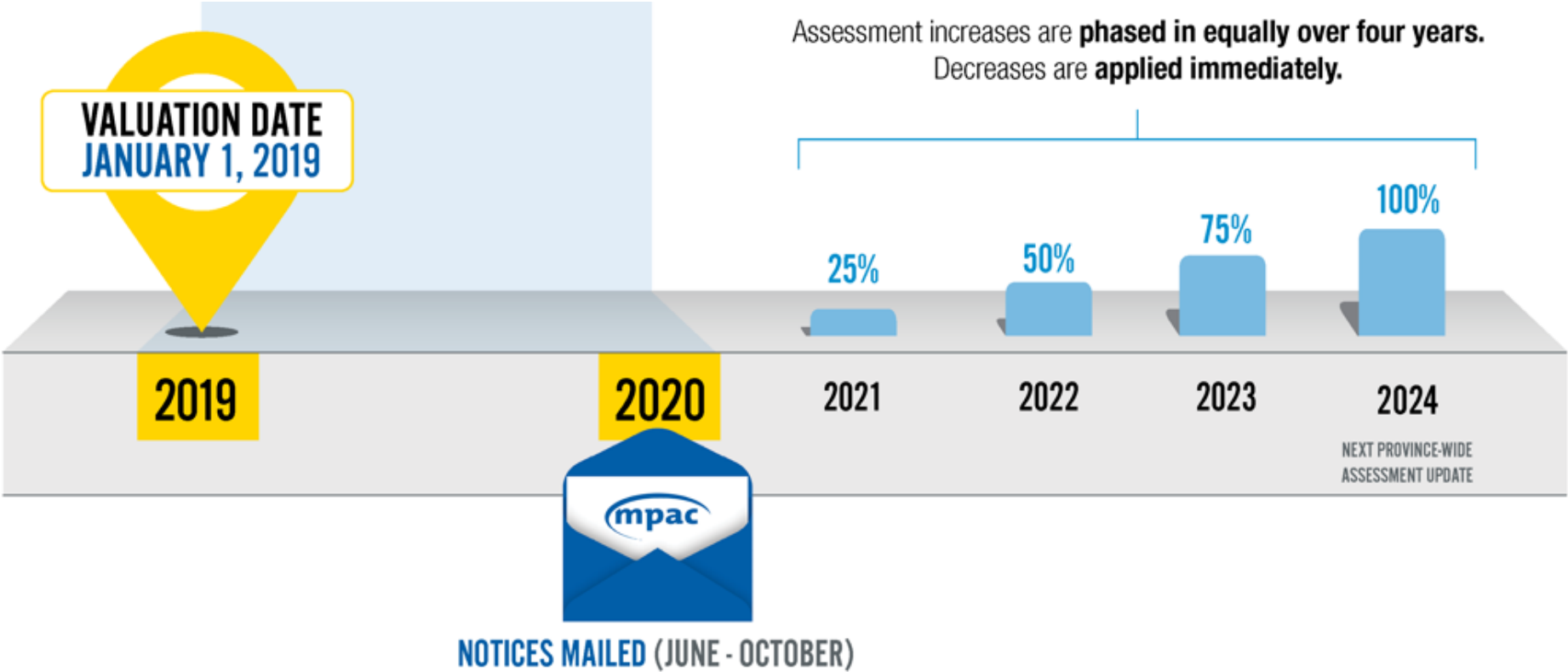
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ASSESSMENT  
CORPORATION

# 2020 Assessment Update

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# Earlier Valuation Date





# Accurate Data

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Sales investigations

Building permits

Requests for  
Reconsideration/Appeals

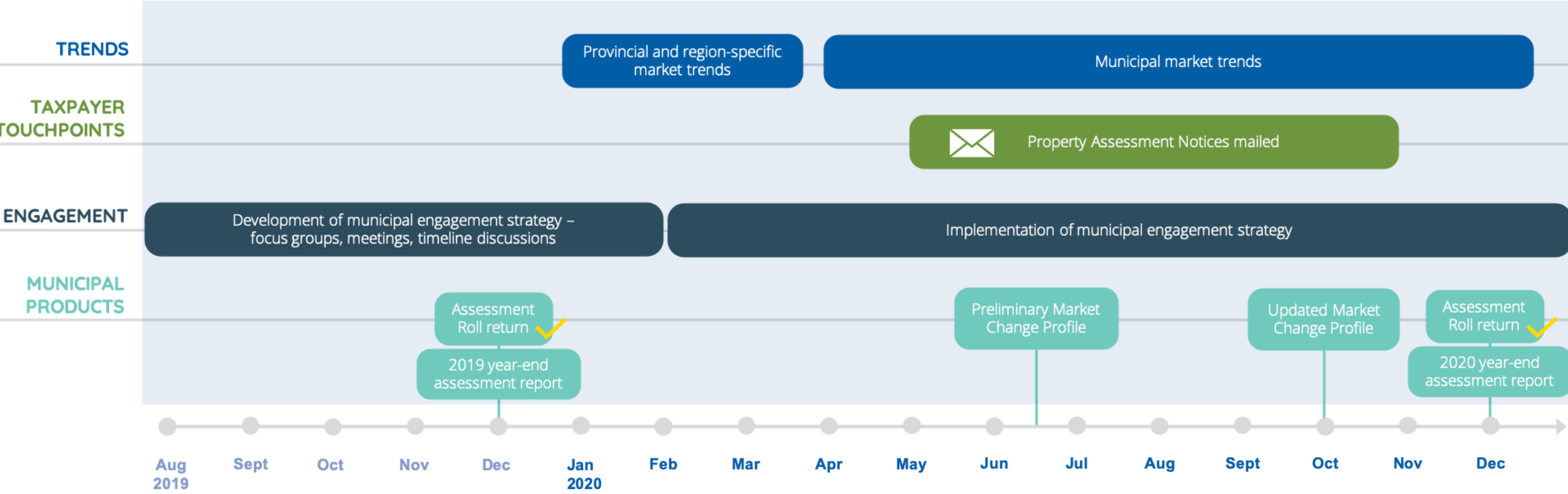
MPAC-initiated reviews

Neighbourhood  
realignments

Financials & financial  
returns

Planning Services

# Early Engagement



# What to Expect

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# How we support you

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# Service Level Agreement



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# Key Improvement Areas

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- Severance/Consolidations
- Supplementary/Omitted Assessments







# Appeals



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# Connect with Us



- MPAC OFFICES**
- ZONE 1** London, Sarnia, Kitchener, Windsor
  - ZONE 2** Hamilton, Mississauga
  - ZONE 3** Richmond Hill, Durham, Trenton
  - ZONE 4** Toronto
  - ZONE 5** Muskoka-Parry Sound, Peterborough, Barrie, Owen Sound
  - ZONE 6** Kingston, Brockville, Cornwall, Ottawa, Pembroke
  - ZONE 7** North Bay, Timmins, Sudbury, Sault Ste. Marie, Thunder Bay, Dryden, Kenora, Fort Frances



# IT Security

Stuart Irvine, Director, IT Security

# MPAC's Security Journey

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- Dedicated security team
- Develop a culture of security first – DevSecOps
- Work towards ISO 27001 certification
- Leverage commercial applications and open source tools

# Security with a limited budget

# Top ten items to improve security

1. Passphrases
2. Multi Factor Authentication (MFA)
3. End user security awareness training
4. External email identifier
5. Onboarding and offboarding process
6. Patching
7. Open source security tools
8. Security frameworks
9. USB storage devices
10. Security information threat feeds






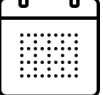
A woman wearing a white lab coat over a grey top is seated at a wooden desk, typing on a black laptop. She is wearing a gold watch on her left wrist and a necklace with a pearl pendant. In the background, a computer monitor displays a dashboard with green charts and a 99% metric. The scene is brightly lit, suggesting a professional or clinical environment.

# Passwords and Passphrases



# Passwords and Passphrases

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"abcdefg" 7 characters		.29 milliseconds
"abcdefgh" 8 characters		5 hours
"abcdefghi" 9 characters		5 days
"abcdefghij" 10 characters		4 months
"abcdefghijk" 11 characters		1 decade
"abcdefghijkl" 12 characters		2 centuries

A man with glasses and a beard, wearing a grey t-shirt, is sitting at a desk. He is holding a silver smartphone in his right hand, looking at the screen with a slight smile. His left hand is on a laptop keyboard. The background is a bright, out-of-focus office environment. The text "Multifactor Authentication" is overlaid in the center of the image.

# Multifactor Authentication

# End User Awareness Training



# End user security awareness training

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- What is malware
- Phishing
- Social engineering
- Mobile devices
- Social media and being safe online
- Passwords and authentication
- Removable media

# External email identifier

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- Helps identify external threats
- Reduce phishing attacks

Latest from the Tenable Blog - Aug 29, 2019



○ **Tenable Blog** <marketing@tenable.com>

✓ Irvine, Stuart

Thursday, August 29, 2019 at 11:09 AM

[Show Details](#)

**Caution:** This email originated from outside of MPAC. Do not click links or open attachments unless you recognize the sender and know the content is safe.

[Click here to view this email in your web browser](#)



# On/Off Boarding Process



A spiral-bound desk calendar is shown in a close-up, slightly blurred view. The calendar is open to a page showing several months, including March, July, and November. The days of the week are abbreviated, and the dates are printed in a grid format. The calendar is resting on a desk, and the background is softly blurred, showing what appears to be a computer monitor and some office supplies.

# Operating System and Application Patches





# Open Source Security Tools

A search bar with a magnifying glass icon on the left and a microphone icon on the right. The text "sslabs" is entered into the search bar.

Google Search

I'm Feeling Lucky

Google offered in: [Français](#)

# Open source security tools

- Kibana and PDQ – Open source solutions

The screenshot shows a Kibana dashboard titled "Service Pack Compliance". At the top, there are navigation options: "Full screen", "Share", "Clone", and "Edit". Below this is a search bar with "Filters" and "Search" buttons, and a "Refresh" button. The dashboard is divided into two main sections: a gauge chart and a table.

The gauge chart, titled "[OGC]DSSControl", shows "Days Since Scan" with a range from 0 to 14. The gauge indicates that 2.538% of machines are "Out of Compliance".

The table, titled "[Test]ServicePackComplianceList", shows a list of machines with their compliance status. The table has columns for "Machine Name", "Last User", "Service Pack", and "Last Scanned".

Machine Name	Last User	Service Pack	Last Scanned
WMILPF00H3WP	LINDSADO	1709	Aug 28, 2019 @ 14:01:21.000
WMILPC0YGH8	MAHSALNA (locked)	1709	Aug 30, 2019 @ 15:12:22.000
WMILPC0Q9E7U	ELMIAH (locked)	1709	Sep 1, 2019 @ 14:07:02.000
WHOFPP176SG1	LUORE	1709	Aug 27, 2019 @ 14:19:32.000



# Security frameworks



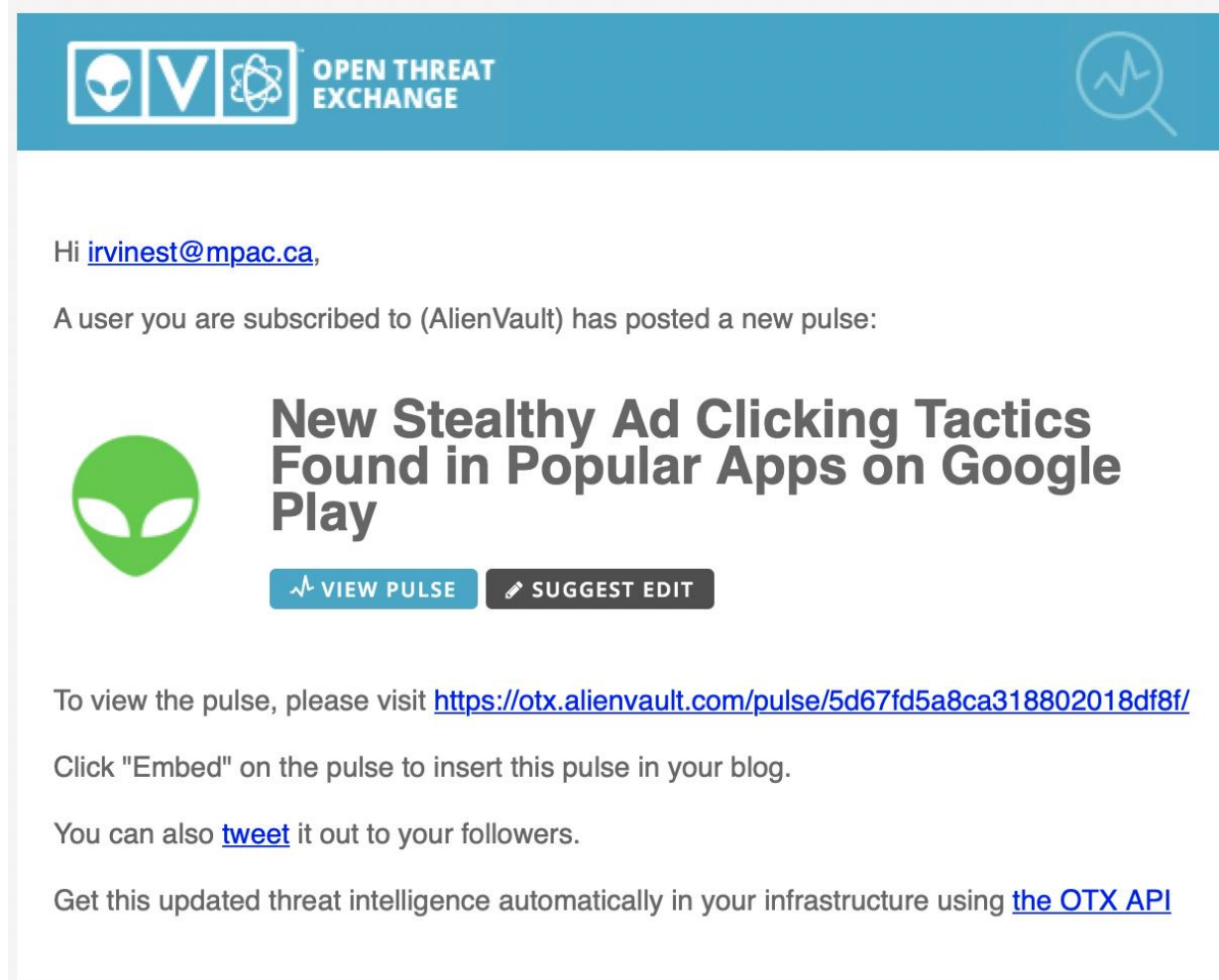
# USB Storage Devices



# Security Information and Threat Feeds




# Security information/threat feeds



The screenshot shows an email notification from the Open Threat Exchange (OTX). The header is a blue bar with the OTX logo (an alien head, a 'V', and an atom symbol) and the text 'OPEN THREAT EXCHANGE' on the left, and a magnifying glass icon on the right. The main content area is white. It starts with a greeting 'Hi [irvinest@mpac.ca](mailto:irvinest@mpac.ca),'. Below that, it says 'A user you are subscribed to (AlienVault) has posted a new pulse:'. The pulse title is 'New Stealthy Ad Clicking Tactics Found in Popular Apps on Google Play', accompanied by a green alien head icon. There are two buttons: a blue 'VIEW PULSE' button with a pulse icon and a dark grey 'SUGGEST EDIT' button with an edit icon. Below the buttons, it says 'To view the pulse, please visit <https://otx.alienvault.com/pulse/5d67fd5a8ca318802018df8f/>'. It then says 'Click "Embed" on the pulse to insert this pulse in your blog.' and 'You can also [tweet](#) it out to your followers.' Finally, it says 'Get this updated threat intelligence automatically in your infrastructure using [the OTX API](#)'.

Hi [irvinest@mpac.ca](mailto:irvinest@mpac.ca),

A user you are subscribed to (AlienVault) has posted a new pulse:

 **New Stealthy Ad Clicking Tactics Found in Popular Apps on Google Play**

[VIEW PULSE](#) [SUGGEST EDIT](#)

To view the pulse, please visit <https://otx.alienvault.com/pulse/5d67fd5a8ca318802018df8f/>

Click "Embed" on the pulse to insert this pulse in your blog.

You can also [tweet](#) it out to your followers.

Get this updated threat intelligence automatically in your infrastructure using [the OTX API](#)



BRAND MONITORING

Monitor brand, competitors, keywords, authors, or any other favorite topics

Search any topic or brand 🔍

ADD NEW SITE

SAVED SEARCHES

No Searches. [Get started.](#)

MY SITES

🏠 View All

★ Favorites

🔗 Shared

📣 Who to follow

➕ Create new folder

📁 Security 7

🌐 otx.alienvault.com/rs... 7

👤 Krebs on Security 39

🔒 Naked Security 100

📖 Dark Reading 198

📺 We Live Security 57

📰 Schneier on Security 71

📰 Threatpost | The first s... 112

👤 Troy Hunt 27

View All ⚙️ RSS New! · Embed



### China's new face-swapping app Zao gets whiplash-fast privacy backlash

Naked Security - 1 hour ago

By Lisa Vaas - Fast trip: in two days, it debuted, shot to the top of China's App Store, sparked privacy outrage, and got banned by WeChat.



### FBI asks Google for help finding criminals

Naked Security - 1 hour ago

By Danny Bradbury - FBI agents issued Google with a warrant in November 2018, seeking its help with a bank robbery the month before.

### Massive iPhone Hack Targets Uyghurs

Schneier on Security - 2 hours ago

By Bruce Schneier - China is being blamed for a massive surveillance operation that targeted Uyghur Muslims. This story broke in waves, the first wave being abou..



### XKCD forums breached

Naked Security - 2 hours ago

By Lisa Vaas - How did the Correct Horse Battery get Staped?



### 'USBAnywhere' Bugs Open Supermicro Servers to Remote Attackers

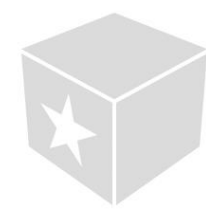
Threatpost | The first stop for security news - 3 hours ago



irvinest@gmail.com  
Today, 8:58 AM

- All Items 659
- Archive
- CISA Alerts
- Security 659
  - Black Hills Information Security 6
  - CERT Advisories 25
  - CISA Current Activity 25
  - Dark Reading 195
  - Dark Reading: Insider Threats 4
  - Dark Reading: Threat Intellige... 73
  - Fire Eye Threat Research 9
  - Hacking Tools – Darknet 1
  - Krebs on Security 13
  - SANS Internet Storm Center
  - SANS Internet Storm Center, I... 45
  - The Register – Security 106

- TODAY
- Vulnerabilities – Threatpost • 8:20 AM  
**tp 'USBAnywhere' Bugs Open Supermicro Servers to Remote Attackers**  
 Trivial-to-exploit authentication flaws...
  - The Register – Security • 6:03 AM  
**A Enjoy the holiday weekend, America? Well-rested? Good. Supermicro server boards can be remotely hijacked**  
 Virtual USB hub allows attackers to g...
  - Threatpost • 6:01 AM  
**tp 'USBAnywhere' Bugs Open Supermicro Servers to Remote Attackers**  
 Trivial-to-exploit authentication flaws...
  - The Register – Security • 5:03 AM  
**A NATO sharpens its cyber-lances, prepares for war games with virtual jousting tournament**  
 Hey, ex-Soviet state-backed threat ac...
  - SANS Internet Storm Cen... • 2:24 AM  
**[Guest Diary] Tricky LNK points to TrickBot, (Tue, Sep 3rd)**  
 [This is a guest diary submitted by Ja...
- YESTERDAY
- SANS Internet Storm Ce... • 11:06 PM  
**ISC Stormcast For Tuesday, September 3rd 2019 https://isc.sans.edu/podcastdetail.html?id=6648, (Tue, Sep 3rd)**  
 -
  - Krebs on Security • 5:05 PM  
**Feds Allege Adconion Employees Hijacked IP Addresses for**
- 659 items



irvinest@gmail.com  
**Security**  
659 unread items





# Google

Google Search

I'm Feeling Lucky

Google offered in: [Français](#)

# Questions