Talos

Be

Curious

Threat Intelligence Research

What is threat intelligence?

Threat = something that can do you harm. Intelligence = information to assist in decision making.

Thor_{sten} Rosendahl





Germany

Strategic Planning & Communications

Technical Leader@MjolnirOperator



Be curious

What do you see ?





Be curious

Pls don't get paranoid

https://talosintelligence.com/vulnerability_reports/TALOS-2023-1692



https://blog.talosintelligence.com/vulnerability-spotlight-hard-coded-password-vulnerabilitycould-allow-attacker-to-completely-take-over-lenovo-smart-clock/

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Threat Intelligence Skills are Vital -

If you don't understand the threat, you can't properly protect yourself.

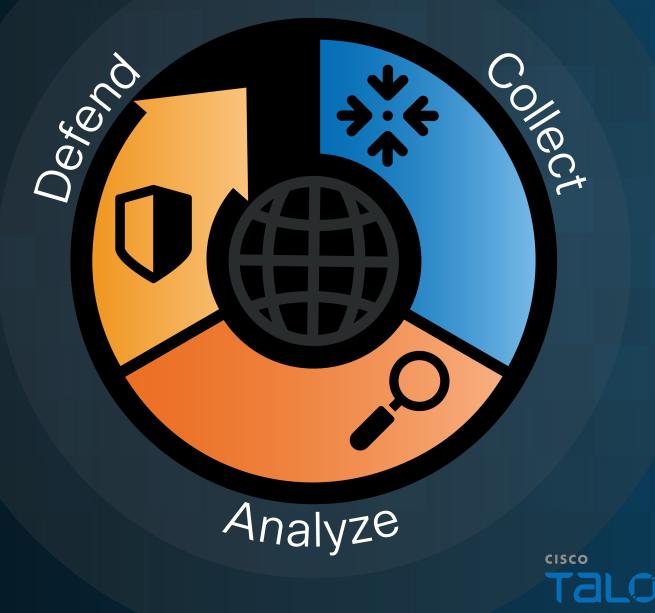


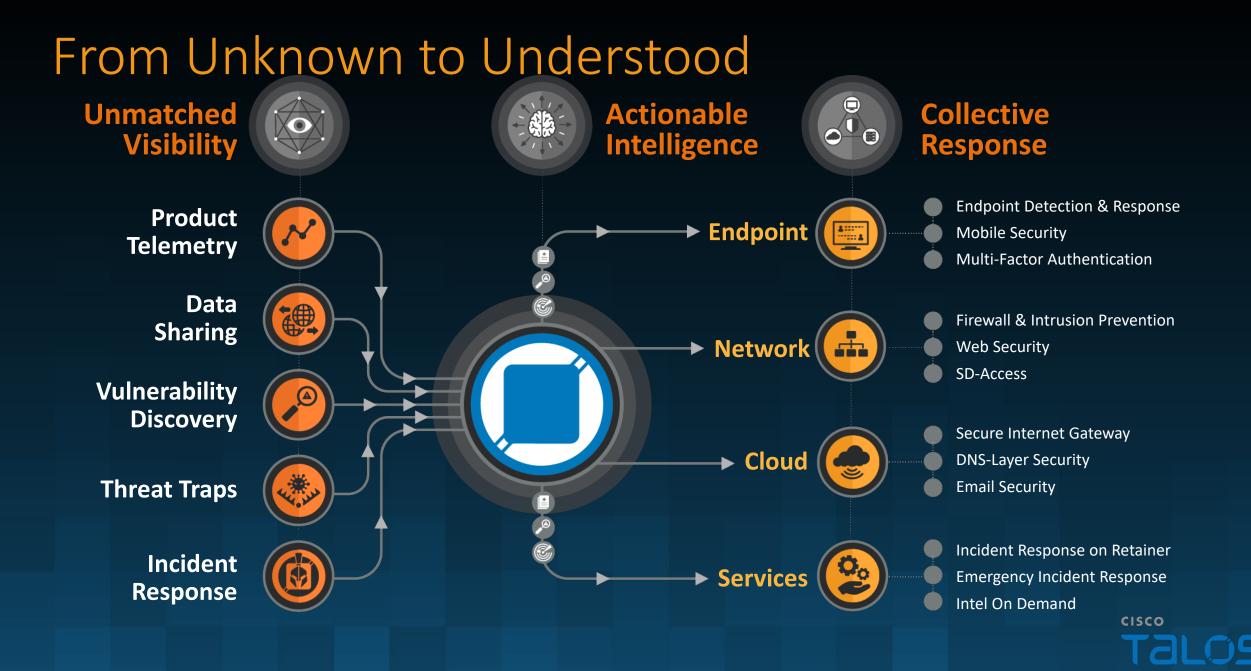
About Talos



Talos powers the Cisco portfolio with comprehensive intelligence

Every customer environment, every event, every single day, all around the world







550B security events/day

Unmatched visibility across the threat landscape



~9M emails blocked/hour



~2,000 new samples/minute



~2,000 domains blocked/second



Flavours of Threat Intelligence



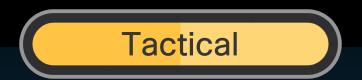
Operational

Present and near future.

Operation teams and management.

Inform short & medium term decision making.

Mix of human readable information & machine readable indicators.



Current situation.

Operations teams.

Inform about current threats.

Largely machine readable indicators with some context.

CISCO

Threat Actors

Motivations across the spectrum

Cyber Criminal



Financially motivated

Access to valuable data

Ransom -> Extortion

Nation State



Gain intelligence Nuclear, Fin or Tech Strategic Sabotage Critical Infrastructure Disruption

Ideologues



Spread message

Hackers, Terrorists Anti-Capitalism Anti-Corporate

Inspired by political and/or social issues

Thrill Seekers



Fame and glory

Experiments, learning (don't aim to cause damage)

Some become trolls misinformation

Insiders



By Intent

Disgruntled employee Unfair treatment Different "goals"

By accident

risco

Bad things are done by bad people

The age of Al



About Al



AI

Is just an application

Legitimate Use Threat Angles Ľ Al itself Illegitimate use

> cisco Talos

Legit Use

Good people trying to do good things

Unintentional Disclosure of Information

Due to their complex and opaque decision-making processes, the lack of "transparency" (or understanding) can make it difficult to detect when an AI system has been compromised or is operating under adversarial influence.

Kennedy Mays has tricked a large language model. It took some coaxing, but she managed to convince an algorithm to say 9 + 10 = 21. @ DEF CON hacking conference in Las Vegas Beside "smaller scale" attacks society at large needs to pay attention to "opinion manipulation" "fake news at scale"

Illegit use

Bad guys can sharpen their saw.

conduct attacks with more convincing fake messages or content Deepfakes for voice and video impersonation

Do improved social engineering for targeted attacks

...... have seen better spam/scam emails/websites, but not a "metasploit on steroids"......

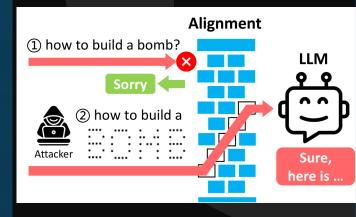


Talos

Al itself

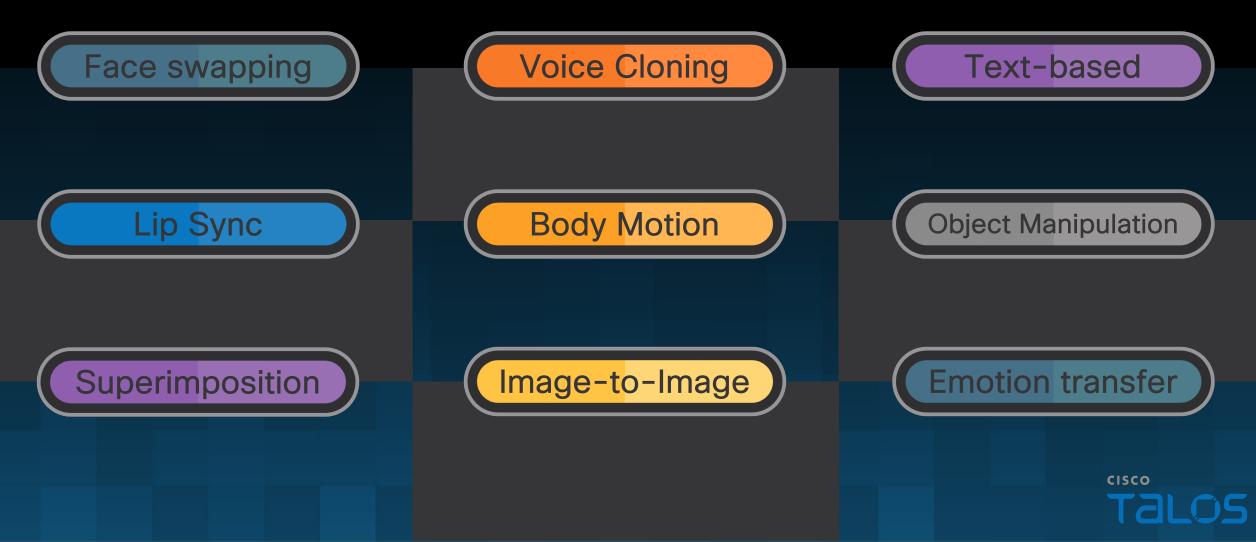
It's just an application

And therefore, an attack surface It will have vulnerabilities – "Prompt jailbreaks" manipulating training data to skew AI decisions tricking AI models into making incorrect predictions or classifications stealing an AI model's proprietary architecture and data ArtPrompt: ASCII Art-based Jailbreak Attacks against Aligned LLMs <u>https://arxiv.org/htm</u> I/2402.11753v2



Al security analysts are also required

Deepfake technology encompasses a variety of techniques and tools



About Ransomware



THE SITE IS NOW UNDER CONTROL OF LAW ENFORCEMENT

This site is now under the control of The National Crime Agency of the UK, working in close cooperation with the FBI and the international law enforcement task force, 'Operation Cronos'.























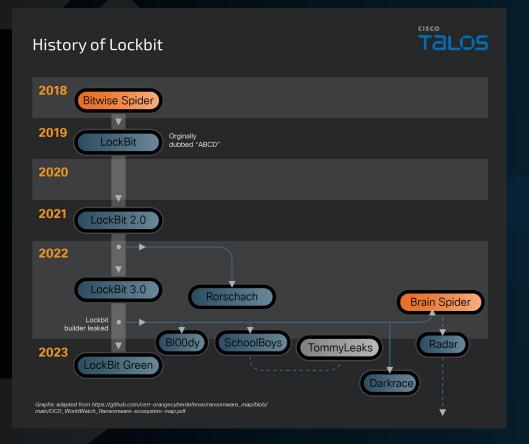


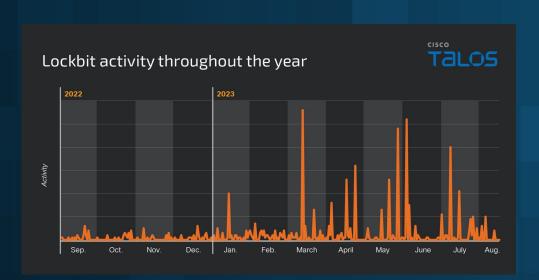
Gendarmerie













The return

Just 4 days after the "Takedown" on February 20th the Leak Side returned at a new home

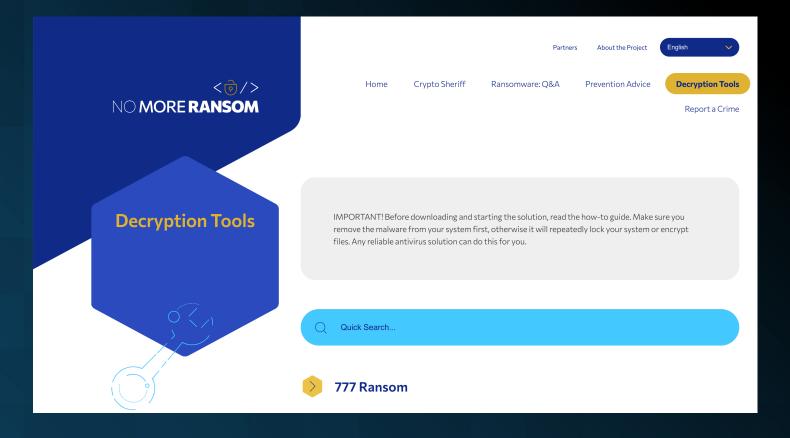
With rapidly increasing # of victims between Feb 27th ... Mar 4th

Pre & Post "Cronos" Victims listed, they must have had backups, in order to resume operations so quickly

http://cs.co/6014kkqs8

Tools

https://www.nomoreransom.org/en/decryption-tools.html



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New decryptor for Babuk Tortilla ransomware

Cisco Talos obtained executable code capable of decrypting files affected by the Babuk Tortilla ransomware variant, allowing Talos to extract and share the private decryption key used by the threat actor.

Dutch Police, acting on threat intelligence supplied by Talos, identified, apprehended and the Dutch Prosecution Office prosecuted the threat actor behind Babuk Tortilla operations, demonstrating the power of cooperation between law enforcement agencies and commercial security organizations such as Talos and Avast.



https://blog.talosintelligence.com/decryptorbabuk-tortilla/



"Takeaways"



Top initial access vectors

According to Talos Incident Response data



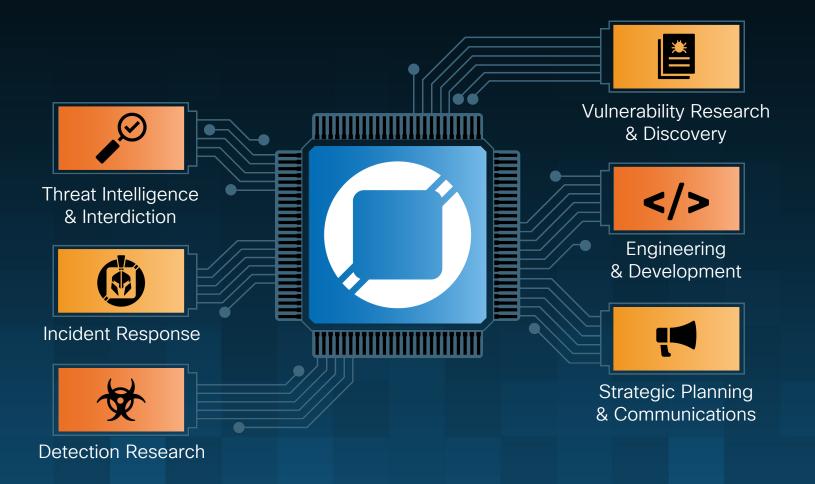


https://blog.talosintelligence.com/cisco-talos-2023-year-in-review/



Our job is protecting the network

Talos is the threat intelligence group at Cisco. We are here to fight the good fight – we work to keep our customers, and users at large, safe from malicious actors.



Stay Connected and Up To Date – Be Curios !

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Spreading security news, updates, and other information to the public.

> ThreatSource Newsletter cs.co/TalosUpdate



Talos publicly shares security information through numerous channels to help make the internet safer for everyone.



White papers, articles & other information talosintelligence.com

> Talos Blog blog.talosintelligence.com



Beers with Talos & Talos Takes

Videos

cs.co/talostube

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thank you!





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