

WHAT IS CYBER THREAT INTELLIGENCE?



BUT SERIOUSLY NOW...

WHAT IS CYBER THREAT INTELLIGENCE?

Lets break it down a little bit first...

What is a threat?

Threat = Intent + Capability + Opportunity



SLIGHT DETOUR - OPPORTUNITY



- Opportunity is within an organizations influence
 - Public facing vulnerabilities
 - Technical or design flaws (architecture)
 - User awareness

- With enough time and resources and attacker will get the opportunity to become a threat.
- This is why we do incident response!

EXAMPLE - HAFNIUM

"Hafnium" – The actor which utilized a vulnerability in MS Exchange Server and got large attention globally in Q1-2021. But many companies misunderstood the context of the threat and panicked even if they were utilizing Microsoft Exchange Online which was not affected by this vulnerability.

So lets say you are an organization using Exchange Online, was Hafnium a threat in this campaign?

- Intent = Cyber espionage
- Capability = Covenant or other C2 frameworks
- Opportunity = Only worked against on-premise Exchange servers

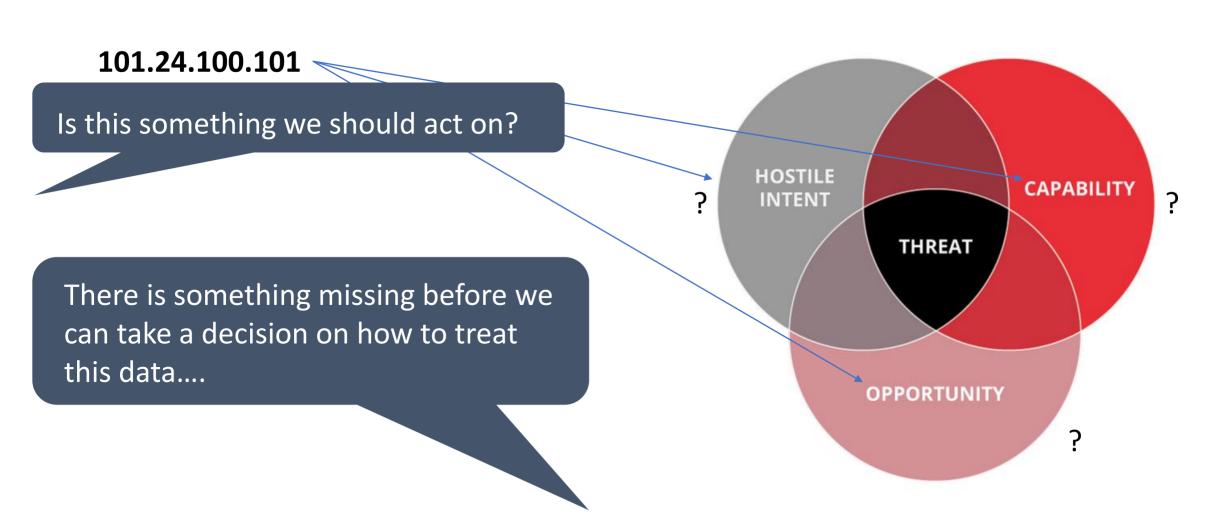
Everything you need to know about the Microsoft Exchange Server hack | ZDNet



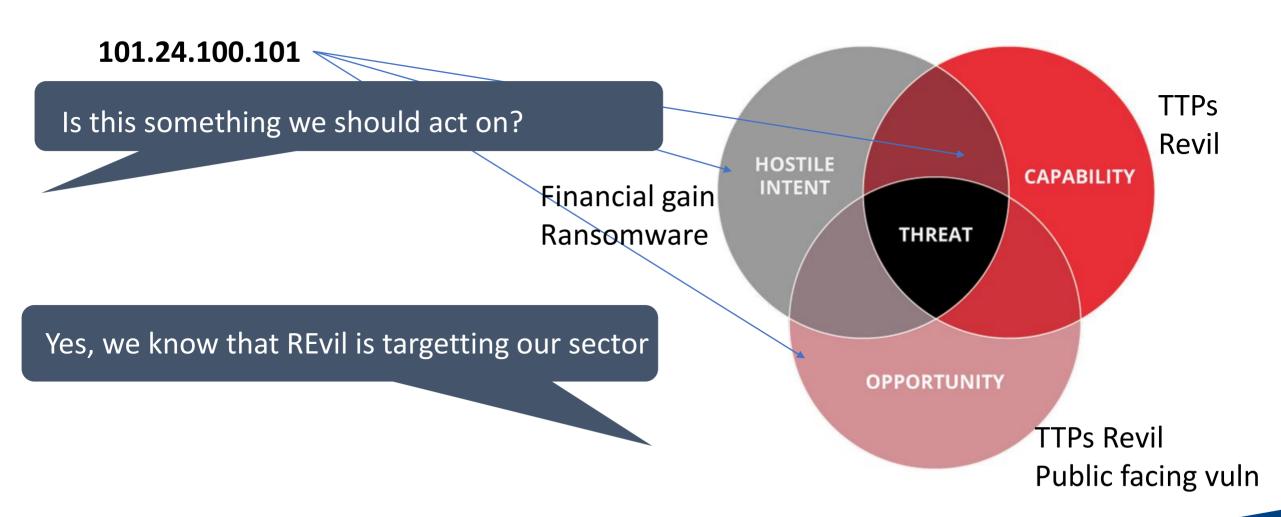
BEFORE WE ADD INTELLIGENCE WE START WITH DATA



THREAT DATA



ADDING THE INTELLIGENCE



FAVOURITE QUOTE



Intelligence teams have a superpower. We don't just say "you should do this", we get to say "you should do this BECAUSE...." This makes a big difference. "You should look for adfind because ransomware operators have used it for discovery" is more powerful than "Look for adfind".

9:41 PM · Nov 10, 2020 · Twitter Web App

...

DIFFERENT TYPES OF INTELLIGENCE

Strategic Intelligence

None technical, risk-based intelligence used by c-level decision makers.

Stakeholders: C Suite/Board level

"Is expanding into this sector likely to open us up to increased cyber risk?"

Tactical Intelligence

Provides information about tactics, techniques and procedures (TTPs) used by a threat actor.

Stakeholders: CISO/technical audience

"Which attackers are targeting our sector and how should we prepare for an attack from them?"

Operational Intelligence

Relates to specific attacks or campaigns

Stakeholders: Exclusively technical audience

"That attack last night against the metro service in the UK, utilized a vulnerability in Citrix Netscaler, we have the same version, lets patch the vulnerability and block the indicators"

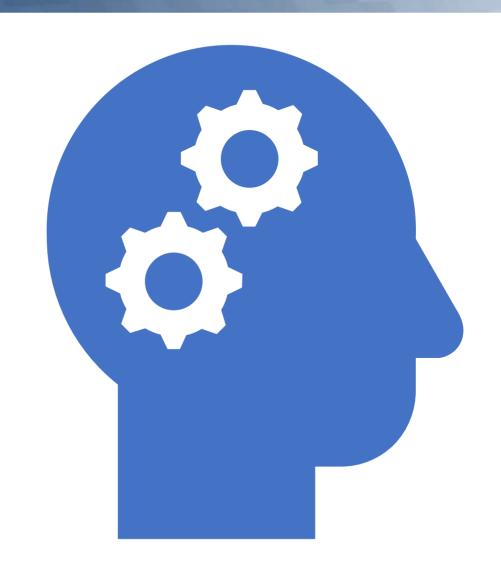
Technical Intelligence

Indicator specific

Stakeholders: Exclusively technical audience

"Hash values, IP addresses"

HOW DO WE GET INTELLIGENCE?



INTELLIGENCE SOURCES

- Create your own
 - Incident metrics
 - Utilize incident classification framework
- Join a sharing community
 - Keep it relevant, no point joining a intelligence community for the Energy sector if you are in Finance.
- Consume external incident metrics
 - Verizon DBIR

- Blogs/Articles
 - Research papers too



VERIZON DBIR



 $\frac{https://enterprise.verizon.com/resources/reports/2021-data-breach-investigations-report.pdf}{} \\$

KEY POINT!

Always keep it relevant!

Without context and relevancy intelligence is just data...

CREATE YOUR OWN

Record your own incidents...

But wait...

If someone asked you describe a specific cyber security incident you have been involved in, what words would you use?

INCIDENT CLASSIFICATION FRAMEWORKS

- A common language for describing incidents
- Often overlooked Bringing BI into Cyber Security
- Tell the story
 - Keep it relevant for the right audience
 - Granularity is key!
 - CISO ammo

This is a topic we will cover a lot more in future sessions!



INTRUSION ANALYSIS — CREATE YOUR OWN

- Diamond Model
 - Useful for a high-level overview of specific threat actors
- Kill Chain
- MITRE ATT&CK

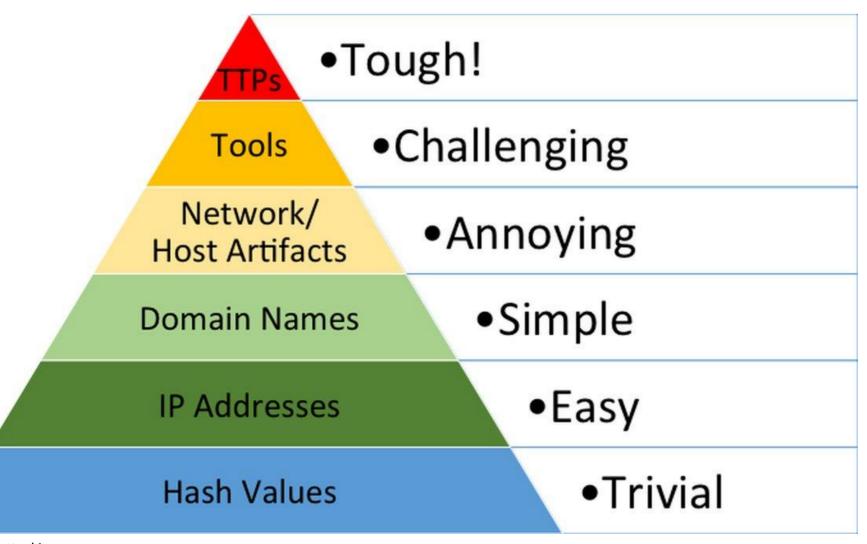
WAIT WAIT...

Before we dive into intrusion analysis...

Let's have some pain...

A pyramid of pain!

PYRAMID OF PAIN

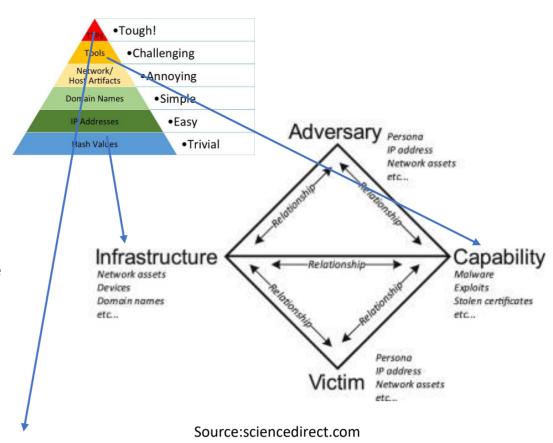


Source: attackiq.com

DIAMOND MODEL

This model is used to:-

- Show the relationship between the adversary it's capabilities, infrastructure and it's chosen victim.
- Aid analysts in attribution
 - Overlapping diamond models for intrusions could indicate the same adversary.



EXAMPLE EXAMPLE

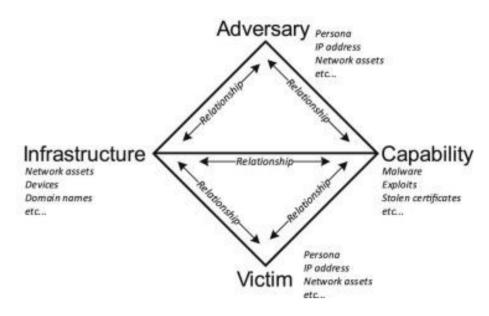
Lets take a look at an example to make it clearer...

DIAMOND MODEL - EXAMPLE

On Premise Exchange Server 0 day attacks

- Adversary
 - Persona: Nation State
 - Origin: China
 - · Group: Hafnium
- Infrastructure
 - Devices: VPS's in USA
- Capability
 - Exploits 0 day's in Exchange
 - Covenant C2 framework
 - Web shell
- Victim
 - Persona: NGO's, think tanks, higher education, infectious disease researchers, law firms etc
 - Devices: On premise Exchange Servers

Source for analysis: https://www.microsoft.com/security/blog/2021/03/02/hafnium-targeting-exchange-servers/
https://blogs.microsoft.com/on-the-issues/2021/03/02/new-nation-state-cyberattacks/

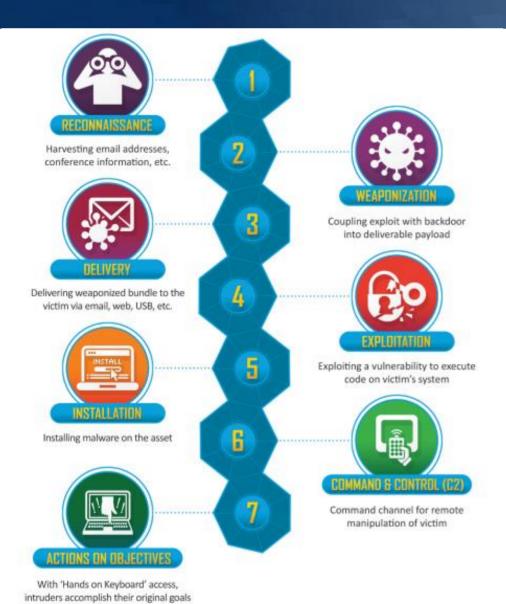


Source:sciencedirect.com

IS THIS ENOUGH?

That's great but we need to understand more about how the attacker utilizes their capabilities and infrastructure...

CYBER KILL CHAIN



- Breaks the intrusion down into a chain of events
- Free hand recording of actions within the chain

Issues:-

 Too much freedom when describing phases

Source: lockheedmartin.com

CYBER KILL CHAIN



Solar Winds Example

- Recon:- Unknown
- Weaponization:- SolarWinds compromise
- Delivery:- Via the software update system
- Exploitation: SolarWinds Orion
- Installation:- Backdoor into Solar Winds Orion
- Command and Control:- CNAME response
- Actions on Objectives:- Further recon/espionage

intruders accomplish their original goals

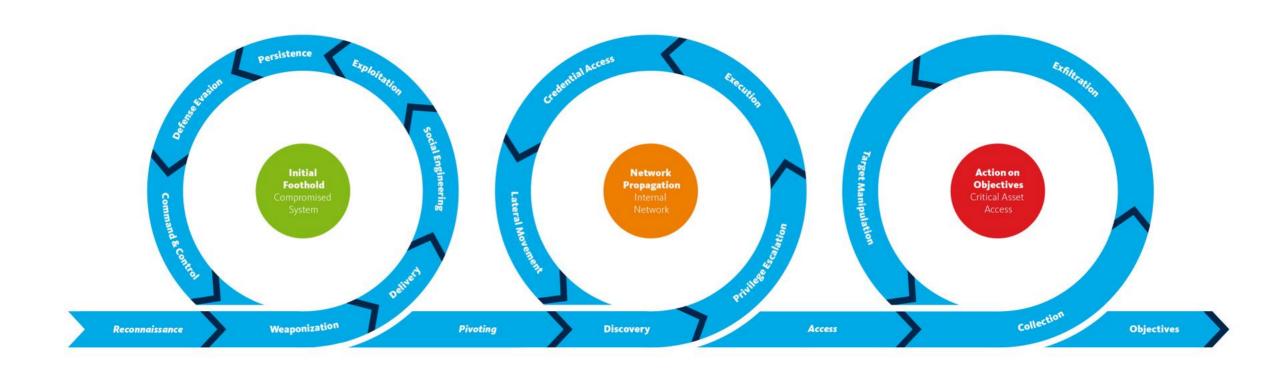
Source: lockheedmartin.com

CYBER KILL CHAIN LINKING

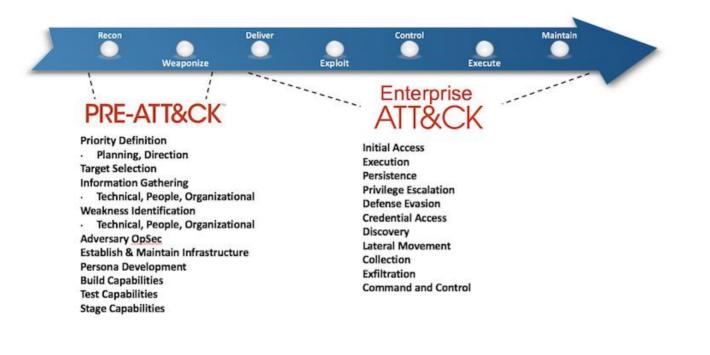
Multiple kill chains are required to describe a single incident

• See next slide for some fun!

COMPLEX COMPLEX



MITRE ATT&CK



- Breaks an intrusion down into various phases
- Deep dive into specific TTPs of threat actors in phases
 - TTPs = Techniques, Tactics and Procedures

Reconnaissance Resource Initial Access Execution Persistence Privilege Escalation **Defense Evasion** Credential Discovery Lateral Collection Command and Exfiltration Impact Development Access Movement Control

https://attack.mitre.org/

MITRE ATT&CK – KEY POINTS

- Defacto standard for the industry when describing threat actors and incidents
- Obsession with completing the heatmap
 - Gotta catch em all!
- Great for Red Teams
- Great for Blue Teams
- Great for Purple Teams



INTELLIGENCE LIFECYCLE



When consuming any sort of CTI, there is a lifecycle/process/guiding principle...

- Gather requirements
 - Start the lifecycle

BE CAREFUL!



BIAS

When creating intelligence we must be aware of our innate human ability to use bias as a tool to support our analysis of information.

We will use a very interesting recent news article to look at examples of how journalists utilize bias to hit their point home.

https://www.version2.dk/artikel/eksperter-kritiserer-nationalbankens-solarwinds-haandtering-hele-virker-too-little-too-late

BIAS – ARGUMENT FROM AUTHORITY

The journalist in the article uses 4 "experts".

- A university lecturer in IT No IR experience
- A university lecturer in Cyber Policy No IR experience
- A SIEM architect No IR experience
- A security consultant Probable IR experience

Only one of the experts has experience in assessing this type of case yet the experts are used to enforce an appearance of authoritive reason.

BIAS – CONFIRMATION BIAS

- Selectively interpret information to confirm a prior belief
- Rather than searching through all the relevant evidence, they phrase questions to receive an affirmative answer that supports their theory.

"Slettede de filen? Nej. NEEEJ! Angriberne ved helt sikkert, de er opdaget, hvis det er deres ZIP-fil, og den slettes. Nationalbanken er gået lige i fælden. I stedet skulle de have puttet logning på filen og kopieret den ind i et sikkert miljø for at se, hvordan den opfører sig, og hvad den indeholder,« siger Lucas Lundgren."

In the SolarWinds attack there was absolutely no evidence reported that the attacker utilized a zip file of the vulnerable SolarWinds application. Remember that the attacker already would have had an open connection via the already compromised SolarWinds application. They would not need to redownload the vulnerable application, there are far more stealthy ways to move around compromised infrastructure. Ask the experts...

BIAS — HINDSIGHT BIAS

- People often believe that after an event has happened they would have been able to predict the outcome.
- Hindsight bias is a big source of overconfidence regarding predictions of future events.

"Hvis jeg så en ZIP-fil, jeg ikke selv havde hentet, ville jeg tænke 'hvad fanden?!' Som det fremgår af den mail, er det en kæmpe Indication of Compromise,« lyder det fra hackeren, der bakkes op af sin kollegiale konkurrent, sikkerhedsrådgiver."

"Når der er tale om kritisk infrastruktur, bør man have styr på, hvilke enheder, der er i ens netværk,« siger sikkerhedsrådgiveren."

The other "experts" do this too throughout the articles published on the NationalBank case.



anchoring

The first thing you judge influences your judgment of all that follows.

Lit man minds are associative in nature, so the order in which we receive information helps determine the course of our judgments

Be especially mindful of this bias charing financial negotiations such as houses, cars, and salaries. The initial price offered is proven to



confirmation

You look for ways to justify your existing beliefs.

Mis are retired to see and arms with ideas that fit our resconcentions Think of your ideas and beliefs as software you're actively trying to find problems with rather than things to be defended.

"The first principle is that you must not fool yourself - and you are the easiest person to fool:
- Richard Feynman



backfire effect

When core beliefs are challenged it can

cause you to believe even more strongly We can experience being wrong about some ideas as an attack upon our wary solves or our tribal identity. This can lead to rectivated rescoring

which causes us to double-down, despite disconfirming evidence "It ain't what you don't know that gets you into trouble. It's what you know for sure that just ain't so."

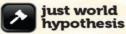


declinism

You see the past as better than it was, and expect the future to be worse than is likely

Despite living in the most peaceful and prosperous time in history. many people believe things are getting worse. The 24 hour news cycle, with its reporting of overtly negative and violent events, may account for some of this effect.

Instead of relying on nostalgic impressions of how great things used to be, use measurable metrics such as life expectancy, levels of crime and violence, and prosperity statistics



Your preference for a just world makes you presume that it exists.

A world in which people don't always get what they deserve, hard work doesn't always pay off, and injustice happens is an uncomfortable one that threatens our preferred narrative. However, it is also the reality.

A more just world requires understanding rather than blame Remember that everyone has their own life story, we're all fallible and bad things happen to good people.



sunk cost fallacy

You irrationally cling to things that have already cost you something.

When we've invested our time, money, or emotion into something, it hurts us to let it go. This aversion to pain can distort our better sudament and cause us to make unwise investments.

To require objectivity ask yourself had I not already inve egain objectivity, ask yoursell, had a not already trivested withing seruld Letill do so now? What would Log meel a friend to do if they were in the same situation?



dunning-kruger

The less you know about something. the more confident you'll be.

Recause expects know is at how much they don't know they tend Because experts know just how much they don't know, they to to underestimate their ability, but it's easy to be over-confident when you have only a simple idea of how things are.

The whole problem with the world is that fools and funatics are so certain of themselves, yet wiser people so full of doubts."



barnum effect

You see personal specifics in vacue statements by filling in the gaps.

Because our minds are given to making connections, it's easy for us to take not about statements and find ways to interpret them so that they seem medific and personal

Psychics, astrologers and others use this bias to make it seem like they're telling you something relevant. Consider how things might be interpreted to apply to anyone, not just you.



framing effect

You allow yourself to be unduly influenced by context and delivery.

We all like to think that we think independently, but the truth is that all of us are, in fact, influenced by delivery, framing and subtle cues. This is why the ad industry is a thing, despite almost everyone believing they're not affected by advertising messages.

Only when we have the intellectual humility to accept the fact that we can be maning dated, can we hope to limit how much we are Try to be mindful of how things are being put to you.



in-group bias

You unfairly favor those who belong to your group.

We presume that we're fair and impartial but the truth is that we automatically favor those who are most like us, or belong to

Try to imagine yourself in the position of those in out-groups; whilst also attempting to be dispassionate when judging those who belong



You judge others on their character, but vourself on the situation.

If you haven't had a good night's sleep, you know why you're being a by slow, but if you observe someone else being slow you don't have such knowledge and so might presume them to just be a slow person. It's not only kind to view others' situations with charity, it's more objective too. Be mindful to also err on the side of taking personal responsibility rather than is etilbing and blaming



placebo effect

If you believe you're taking medicine it can sometimes 'work' even if it's fake.

The placetro effect can work for shall that our mind influences in which pain) but not so much for things like viruses or broken bones.

Homeopathy, acupuncture, and many other forms of natural medicine' have been proven to be no more effective than placebo Keep a healthy body and bank balance by using evidence-based medicine from a qualified doctor.

KNOW THYSELF

halo effect

How much you like someone influences your other judgments of them.

Our judgments are associative and automatic, and so if we want to be Objective we need to consciously control for irrelevant influences.

This is expecially important in a professional setting.

If you notice that you're giving consistently high or low marks across the board, it's worth considering that your judgment may be suffering from the halo effect.



bystander effect

You presume someone else is going to do something in an emergency situation.

When something temble is happening in a public setting we can experience a kind of shock and mental paralysis that distracts us from a sense of personal responsibility. The problem is that everyone can

experience this sense of deindividuation in a crowd. If there's an emergency situation, presume to be the one who will help or call for help. Be the change you want to see in the world.



Your judgments are influenced by what springs most easily to mind

How recent, emotionally powerful, or unusual your memories are can make them seem more relevant. This, in turn, can cause you to apply them too readily

Try to cain different perspections and relevant statistical



belief bias

If a conclusion supports your beliefs, you'll rationalize anything that supports it.

It's difficult for us to set aside our existing beliefs to consider the true It's difficult for us to set aside our existing beliefs to consider the true ments of an argument. In practice this means that our ideas become impensious to criticism, and are perpetually reinforced.

A useful thing to ask is 'when and how did I get this belief? We tend to automatically defend our ideas without ever really



groupthink

You let the social dynamics of a group situation override the best outcomes.

Dissent can be uncomfortable and dangerous to one's social standing, and so often the most confident or first voice will determine group decisions

optimism bias

There can be benefits to a positive attitude, but it's unwise to allow

such an attitude to adversely affect our ability to make rational judgments (they're not mutually exclusive).

If you make rational, realistic sudgments you'll have a lot more to

reactance

When we feel our liberty is being constrained, our inclination is to resist, however in doing so we can over-compensate.

You'd rather do the opposite of what

Be careful not to lose objectivity when someone is being

coercive/manipulative, or trying to force you do something

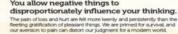
someone is trying to make you do.

Wisdom springs from reflection, folly from reaction.

Rather than openly contradicting others, seek to facilitate objective means of evaluation and critical thinking practices as a more in activity

You overestimate the likelihood of

positive outcomes.



You allow negative things to

The pain of loss and hurt are felt more keenly and persistently than the fleeting gratification of pleasant things. We are primed for survival, and our aversion to pain can distort our judgment for a modern world.

negativity bias

curse of

Once you understand something you

presume it to be obvious to everyone.

Things makes sense once they make sense so it can be hard to

knowledge

Things makes sense once they make sense, so it can be hard to remember why they didnt. We build complex networks of understanding and forcet how intricate the path to our available knowledge really is.

Milkery to select a service and analysis Man

When teaching someone something new, go slow and explain like they're ten years old (without being patronizing). Repeat key points and facilitate active practice to bein embed incovering

self-serving

You believe your failures are due to external

Many of us enjoy unearned privileges, luck and advantages that others do not. Its easy to tell ourselves that we deserve these things, whilst blaming circumstance when things don't go our way.

factors, vet your successes are your own.

When sudging others, be mindful of how this bias interacts

with the last-world hypothesis, fundamental attribution error

Pro-and-con lists, as well as thinking in terms of probabilities, can help you evaluate things more objectively than relying on a complime impression



pessimism bias

You overestimate the likelihood of negative outcomes.

Pessimism is often a defense mechanism against disappointment, or it can be the result of depression and anxiety disorders

Perhaps the worst aspect of pessimism is that even if something good happens, you'll probably feel pessmistic about it arrowsy.



spotlight effect

You overestimate how much people notice how you look and act.

Most people are much more concerned about themselves than they are about you. Absent overt prejudices, people generally want to like and get along with you as it gives them validation too.

Instead of worrying about how you're being judged, consider how you make others feel. They'll remember this much more, and you'll make the world a better place.

thou shalt not suffer cognitive biases

Cognitive biases make our judgments irrational. We have evolved to use shortcuts in our thinking, which are often useful, but a cognitive biase means there's a kind of misfiring going on causing us to lose objectivity. This poster has been designed to help you identify some of the most common biases and how to avoid falling victim to them. Help people become aware of their biases generally by sharing the website yourbias.is or more specifically e.g. yourbias.is/confirmation-bias



Misrepresenting someone's argument to make it easier

By exaggarating, misrepresenting, or just completely fabricating someone's argument, it's much easier to present your own position as being seasonable, but this land of dishonesty server to undermine rational debate.

After Will said that we should be nice to littlens because they're fluffy and cute, Bill says that Will is a mean Jerk who wants to be mean to poor



Asserting that if we allow A to happen, then Z will consequently happen too, therefore A should not happen.

The problem with this reasoning is that it avoids engaging with the issue at hand, and instead shifts attention to baseless extreme hypotheticals. The ments of the protected area ment are then behind they are independent

Colin asserts that if we allow children to play video games, then the next thing you know we'll be living a in a post-spocalyptic zomble wasteland with no money for quard rails to protect people from silipport slopes.



Moving the goalposts or making up exceptions when a

Humans are furny creatures and have a foolish severion to being wrong. Rather than approciate the benefit of being allo to change one's mind through better understanding, many will invent weys to cling to old belies. Edward Johns claimed to be google, but when his rebiblies were losted under proper scientific conditions; they magically disappeared. Edward explained this earing that one had to have faith in this abilities for them to work.



Believing that 'runs' occur to statistically independent

This commonly believed fallery can be said to have helped create a city in the leaver of Nevada LSA. Though the overall odds or a fixty man happening may be low, each spin of the wheel is itself entirely independent from the last. Red had come up soft times in a row on the routides wheel, so Cegg Inswir that. It was done to certain that black would be next up. Saffering an according form of natural selection with this brinking, he soon lost all of this savings.



Where two alternative states are presented as the only possibilities, when in fact more possibilities exist.

Also known as the false different, this incidious factic has the appearance of forming a logical argument, but under closer sometimity it becomes widered that there are more possibilities than the eitherior choice that its presented. Whilst railying support for his join to fundamentally undermine clinical rights, the Supreme Leader told the people they were either on his side, or on the side of the enemy.



Presuming that a real or perceived relationship between things means that one is the cause of the other.

Many people confuse correlation things happening together or in sequence) for outside that one thing actually cause the other to happen. Sometimes correlation that one thing actually cause the other to happen. Sometimes correlation is coincidental or it may be attributable to a common cause.

Pointing to a fancy chart, Roger shows how temperatures have been rising over the past few centuries, whilst at the same time the numbers of pisates have have demonstrated the relation could fee until order of what were true.



ad hominem

Attacking your opponent's character or personal traits in an attempt to undermine their argument.

Ad horninem attacks can take the form of overtly attacking somebody, or casting doubt on their character. The result of an ad horn attack can be to undermine someone without achaight engaging with the substance of their argument.

After Sally presents an eloquent and compelling one for a more equitable taxation system, Sam asis the audience whether we should believe anythin



loaded question

Asking a question that has an assumption built into it so that it can't be answered without appearing guilty.

Losded question follows are particularly effective at dentifing rational oblates because of their inflammatory nature—recipitant of a loaded quastion are compelled to defend themselves and may appear flustered or on the back took. Cance and Helsen were both recommissibly insensed in final One day, with, Bad stifting within earthot, Craice allows in an inquisitive tone whether Helsen was harving are problems with a fluggle infection.



bandwagon

Appealing to popularity or the fact that many people do something as an attempted form of validation.

The filew in this argument is that the popularity of an idea has absolutely no bearing on its validity. If it did, then the Earth would have made itself flat for most of history to accommodate this popular belief.

Shamus pointed a finger at Sean and asled him to explain how so many people could believe in lepracheurs if they're only a stlly old superstition. Sean wondered how so many people could believe in things based on popularity.



begging the question

A circular argument in which the conclusion is included in the premise.

This logically incoherent argument often artises in situations where people have an assumption that is very impraised, and thesefore slates in their trained, as a given. Circular reasoning is bad mostly because it's not very good. The word of Zorbo the Creat is Reviews and perfect. We know this because it says on The Great and Intallible Book of Zorbo's Best and Most Truset. Things that are Definitely Thus and Should Most Eve the Outsettined.



appeal to authority

Saying that because an authority thinks something, it must therefore be true.

Its important to note that this fallacy should not be used to dismiss the claims of experts, or scientific consensus. Appeals to authority are not valid arguments, but nor is it reasonable to disregard the claims of experts who have a demonstrated death of innovidates unless one has a similar level of understanding.

Unable to detend his argument that the Earth is flat, Bob said that his friend Tarry was a qualified botanist who also believed the Earth to be flat, and had even seen it from up in a tree.



appeal to nature

Making the argument that because something is 'natural' it is therefore valid, justified, inevitable, good, or ideal.

Many hattard things are also considered good, and their can bise our training but naturalized liber desornt make something good or lack for training but naturalized liber desornt make something good or lack for training. The medicine man relied to low one on his bandwagen offering various natural remedies, such as very special plain water. He said that it was only natural that success should be very of refittled in maddens like artistics.



composition /division

Assuming that what's true about one part of something has to be applied to all, or other, parts of it.

Often when something is true for the part it does also apply to the whole, but because this isn't always the case it can't be presumed to be true. We must show evidence for why a consistency will east.

Daniel was a precocious child and had a liding for logic. He reasoned that atoms are invisible, and that he was made of atoms and therefore invisible too Untortunablely despite his thinly skills, he lost the game of hide and go seek.



anecdotal

Using personal experience or an isolated example instead of a valid argument, especially to dismiss statistics.

It's often much easier for people to believe someone's testimony as opposed to see a second second



the texas sharpshooter

appeal to

Appeals to emotion include appeals to fear, envy, helired, pity, guilt, and more. Though a valid, and reasoned, argument may sometimes have an emotional aspect, one must be careful that emotion doesn't obscure or replace reason.

Luke didn't want to eat his sheep brains with chopped liver and brussels

sprouts, but his father told him to think about the poor, standing children in a

tu guogue

Avoiding having to engage with criticism by turning it

I thorally translating as 'year too' this fallacy is commonly applicated as an

burden of proof

Literally translating as you too' this fallacy is commonly employed as an effective red herring because it tales the heat off the accused having to detend themselves and shifts the focus back onto the accuser themselves.

Microla identified that Hannah had committed a lookal fallacy had instead of

Saving that the burden of proof lies not with the person

The burden of proof lies with someone who is making a claim, and is not upon

rive burdan or proof as with someone who is making a claim, and is not upon anyone else to disprove. The triability, or disinclination, to disprove a dark does not make it valid floowever we must always go by the best available avidence).

Bostrand declares that a teamed is at this year moment, in cabit around the

scotsman

Making what could be called an appeal to murity as a way

to dismiss relevant criticisms or flaws of an armument

This fallacy is often employed as a measure of last resort when a point has been

lost. Seeing that a criticism is valid, yet not wanting to admit it, new criteria are invoked to dissociate oneself or one's argument.

Lachien points out that he is a Sootsman and puts sugar on his porridge. Rurious, Ber a true Scot, Angus yells that no true Scotsman sugars his porridge.

Amoust docknow that Continuous do not real in your on their normalism to which

sertrand declares that a teapor is, at this very moment, in ordit and Sun between the Earth and Mars, and that because no one can prowrong his claim is therefore a valid one.

no true

making the claim, but with someone else to disprove.

recove survained that Hannah had committed a logical tasacy, but instead of addressing the substance of her claim, Hannah accused Nicole of committing a fallacy earlier on in the convenation.

back on the accuser - answering criticism with criticism.

third world on miny who woren't fortunate encreach to have any food at all

emotion

Manipulating an emotional response in place of a valid

or compelling argument.

Cherry-picking data clusters to suit an argument, or finding a pattern to fit a presumption.

This bias cause fallow is critical after a materiania shooting at borns and their applications of the properties of the



Presuming a claim to be necessarily wrong because a fallacy has been committed.

It is entirely possible to make a claim that is false yet argue with logical coherency for that claim; just as it is possible to make a claim that is true and justly it with various falsecies and poor arguments.

Recognising that Armanda had committed a fallacy in arguing that we should eat healthy food because a multitionist said it was popular, Alyae said we should remote our beauting of the chooseluminary every day.



Saying that because one finds something difficult to understand, it's therefore not true.

Subjects such as biological evolution via the process of natural selection require a good amount of understanding before one is able to properly grasp them, this fallacy is usually used in place of that understanding

Hink draw a picture of a fish and a human and with effusive disdain asked Sichard if he really thought we were stupid enough to believe that a fish somehow turned into a human through just. Bie, random things happening over time.



Using double meanings or ambiguities of language to mislead or misrepresent the truth

Politicians are often guilty of using ambiguity to mislead and will later point to how they were technically not outright lying if they come under scrutiny. It's a particularly tricky and premeditated fallacy to commit.

When the judge asked the defendant why he hadn't paid his parking fines, he said that he shouldn't have to pay them because the sign said The for parking here and so he naturally presumed that it would be first to park there.



genetic

Judging something good or bad on the basis of where it comes from, or from whom it comes.

To appeal to prejudices surrounding something's origin is another red herring fallecy. This fallecy has the same function as an ad hominem, but applies instead to perceptions surrounding comorbing's source or context.

Accused on the 6 ciclock news of comption and taking bribes, the senator said that we should all be very wary of the things we hear in the madia, because we all know how very unreliable the madia can be.



Saying that a compromise, or middle point, between two extremes must be the truth.

Much of the time the truth does indeed to between two extreme points, but this can bise unthinking sometimes a stimp is enterply untries and also, is added a compromise of it is also untrius. Half way between truth and also, is still a list. Help said that unconhations caused authern in children, but her scientificatily well-read friend Calabis said that this claim had been about and and proven false. Their friend Alloce offered a compromise that vectorations cause one autient.

thou shalt not commit logical fallacies

A logical fallacy is a flaw in reasoning. Strong arguments are void of logical fallacies, whilst arguments that are weak tend to use fallacies in place of cogent logic. They're like tricks or illusions of thought, and they're often very sneakily used by politicians, the media, and others to fool people. Don't be fooled!

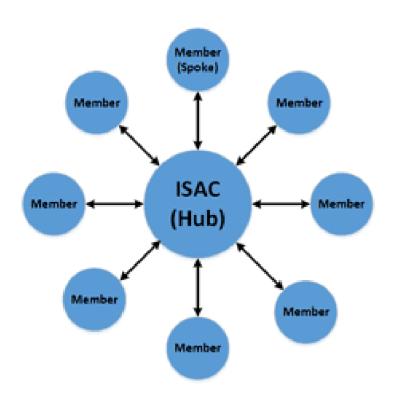
This poster has been designed to help you identify and call out dodgy logic wherever it may raise its ugity, incoherent head. If you see someone committing a logical fallacy online, link them to the relevant fallacy to school them in thinkiness e.g. yourfallacy is/strawman.

OK SO NOW WE HAVE GATHERED SOME GOOD CTI

Lets share share!

SHARING CTI

ISAC Communities



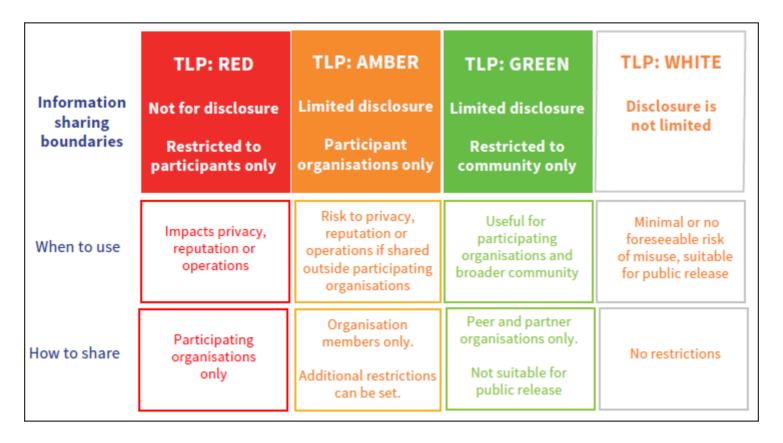
Consuming Threat Data/Intelligence

- Data which is relevant to us
 - Threat feeds
 - Automated actions
 - Prevention
 - Detection
 - Hunting





TLP PROTOCOL



Source: https://support.aaf.edu.au/

WHAT DID WE LEARN??

Can we answer the following questions?



WHAT DID WE LEARN??

I read that REvil ransomware just hit our competitor, can we detect it using our current capabilities?

If we takeover this company and move into a new sector, are we exposing ourselves to new threats?

How many times did we see Emotet malware last year?



