

RSAC Conference™ 2023

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Dressing Adversary Emulation in Business Attire: Outcomes and Successes



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Current Trajectory

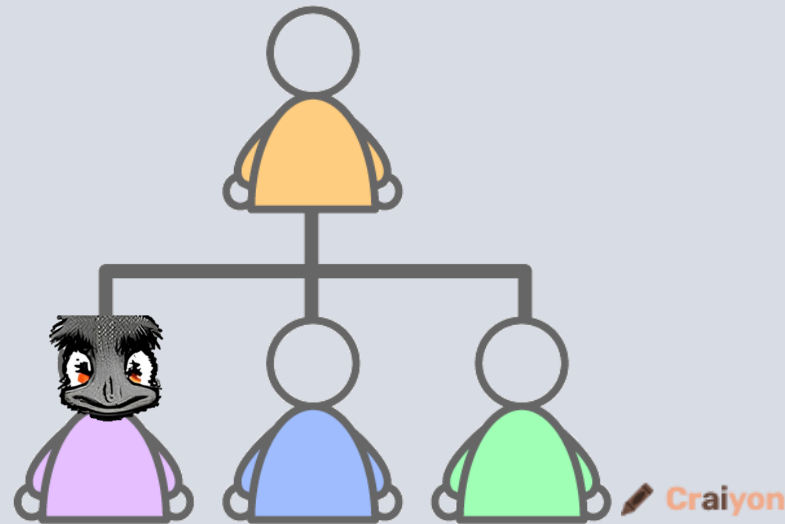


- Spending, investments, as well as complexity continually **increase**
- Do we see a similar pattern with **security improvements** and **business impact**?



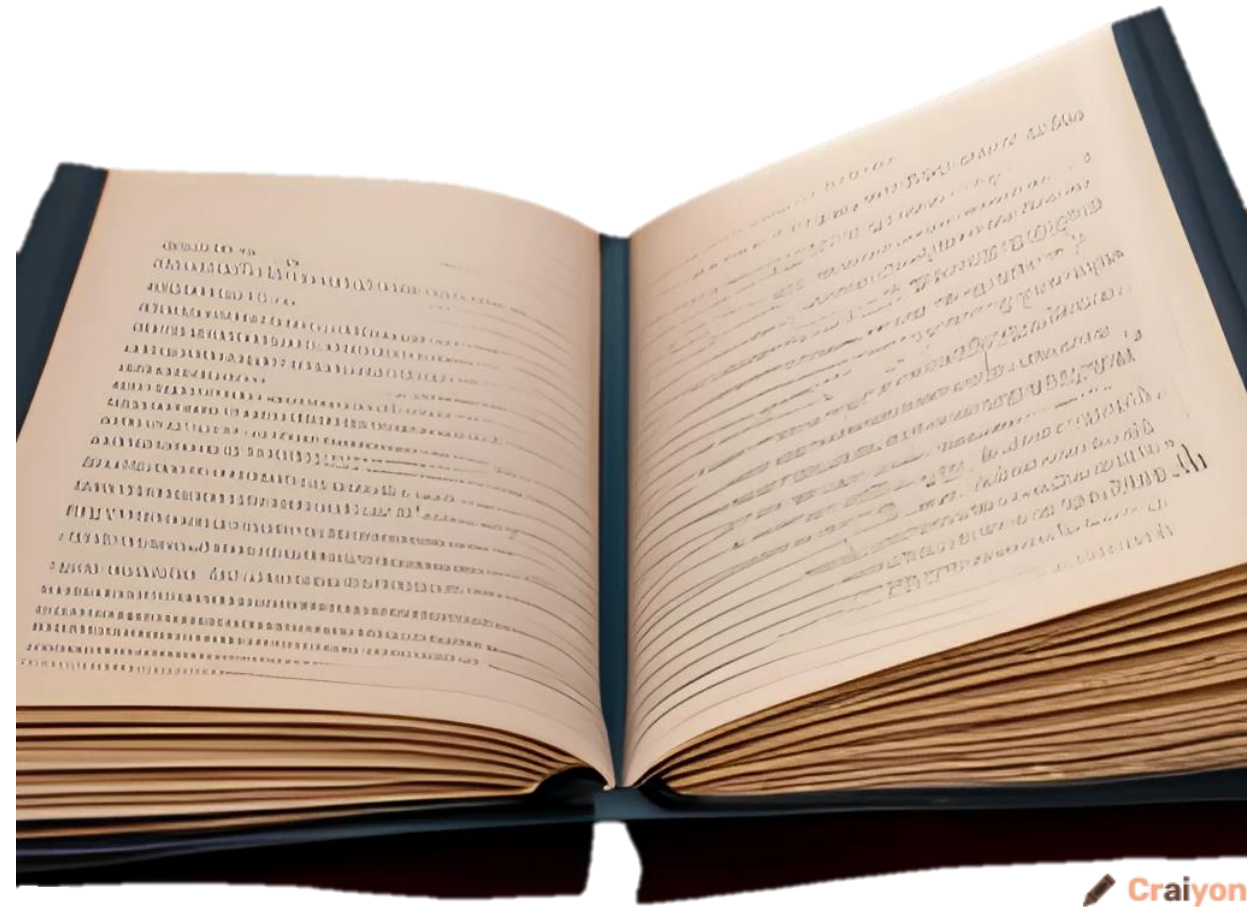
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Aligning Adversary Emulation Towards Business Outcomes



What Can Adversary Emulation Provide?

- Ability to **tell a story** before it becomes reality
- “What would happen if **{adversary}**?”
- Provides an opportunity to **rewrite the story's ending**



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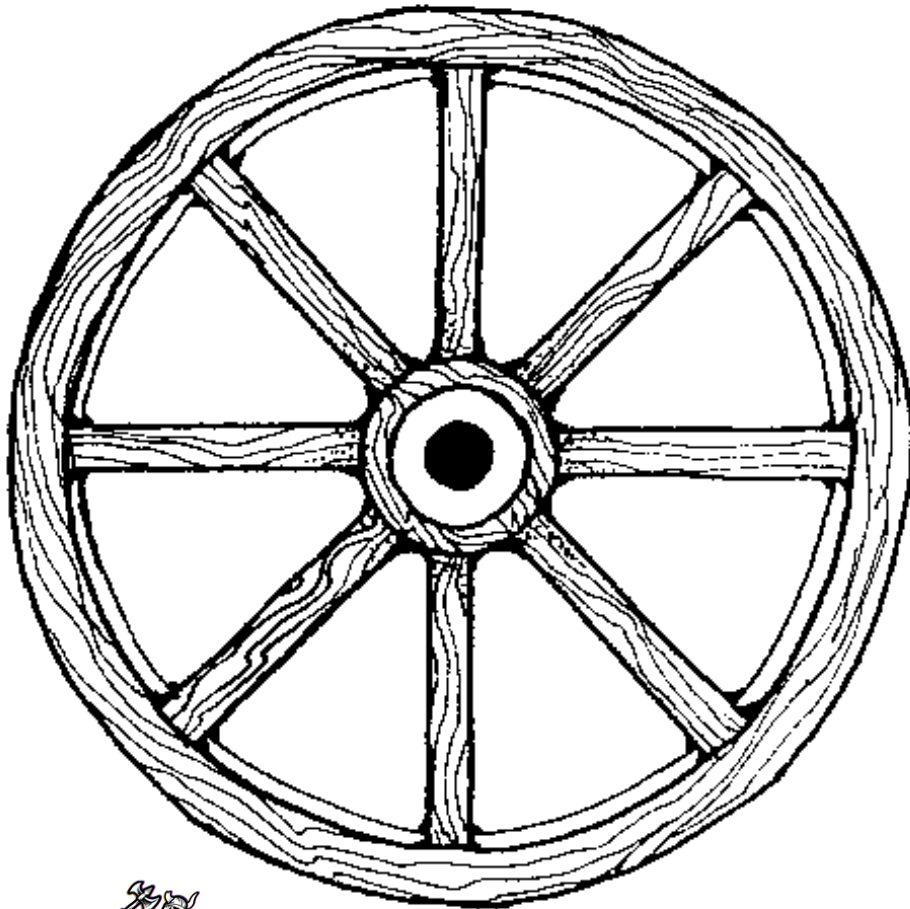
Threat-Informed Operational Successes



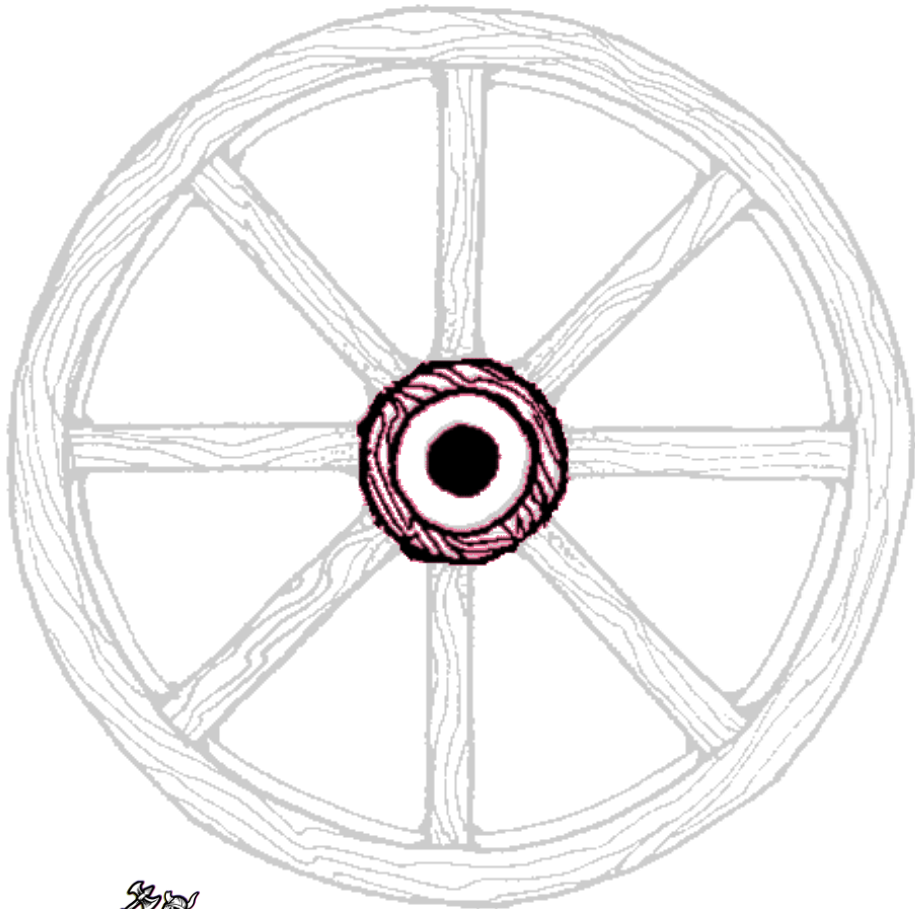
Threat-Informed Mindset

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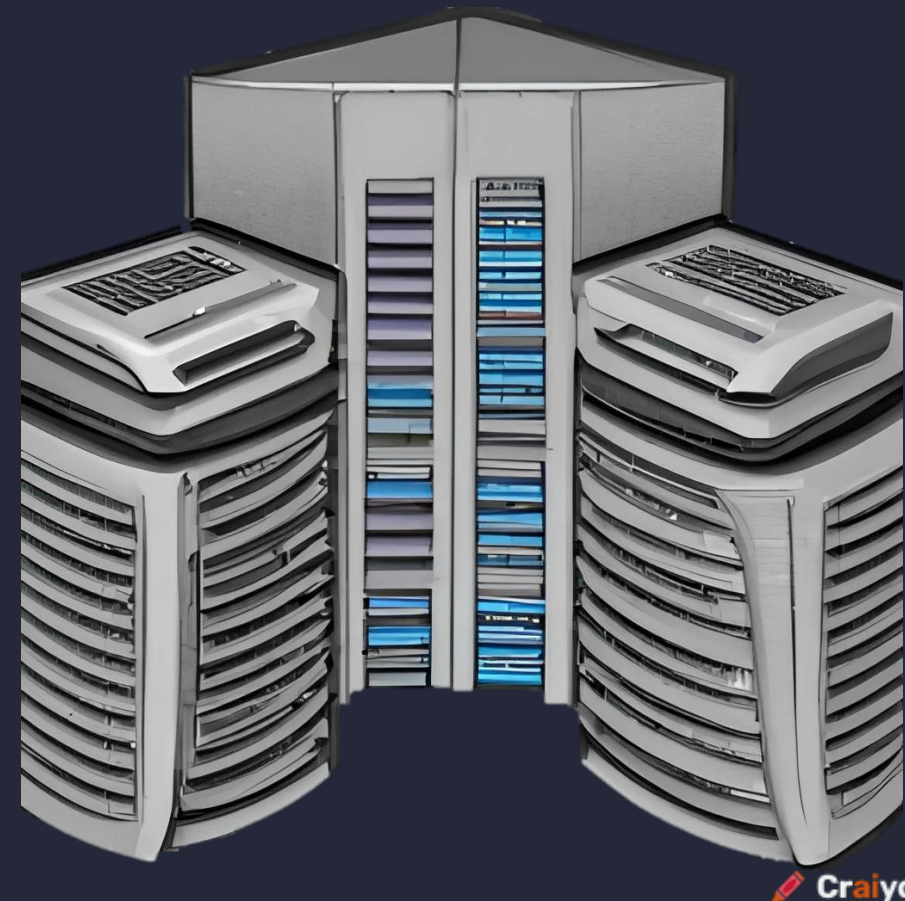
- Assess and implement **security decisions** using **perspective of our adversaries**
- Takes **different forms**, but applies to strategic down to tactical levels



- **Threat-informed** approach to understanding:
 - Priorities
 - Policies
 - Risks / costs
- Tabletop assessments

It is critical to maintain offline, encrypted backups of data and to regularly test your backups. Backup procedures should be conducted on a regular basis. It is important that backups be maintained offline as many ransomware variants attempt to find and delete any accessible backups. Maintaining offline, current backups is most critical because there is no need to pay a ransom for data that is readily accessible to your organization.

Excerpt from cisa.gov/stopransomware/ransomware-guide

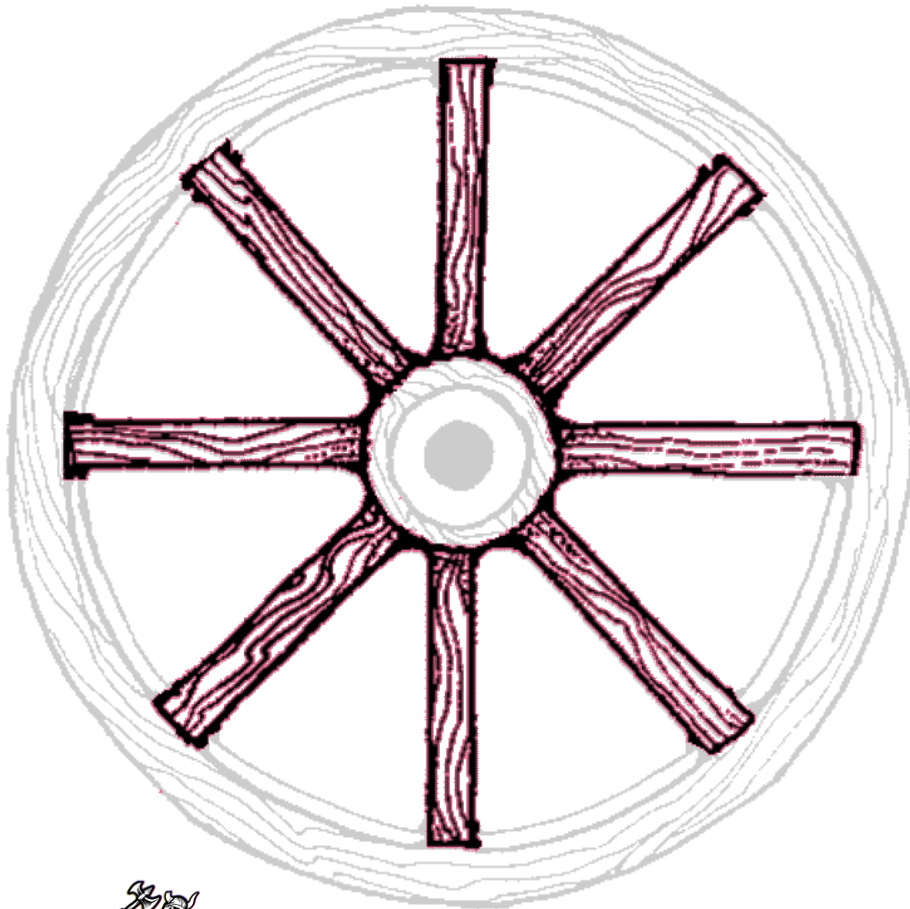


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```
2683 So we found the Synology server and have access to it.
2684 Backups are usually made by Active Backup for Business software. It is free, flexible and standard))
2685
2686 One thing, but with a probability of 99% we will fire up as the admins will receive mail and push notifications that everything is gone) Therefore, we go to
2687 Control Panel > Notifications > Advanced and there in the ABB service we remove all the buttons for sending notifications. Up to the heap, you can basically turn off all notif
2688
2689 Open ABB, open the Virtual Machine tab in it and see all the hosts and their virtual machines that are being backed up.
2690 To delete them, open the Tasks tab at the top and delete backup tasks in it, he will swear that this is dangerous and delete backups,
2691 understanding all the risks of loss, we agree and wait until he deletes)
```

In general, you can delete backups, then encrypt virtual machines, and roll fresh backups with broken virtual machines

Excerpt from github.com/tsale/translated_conti_leaked_comms

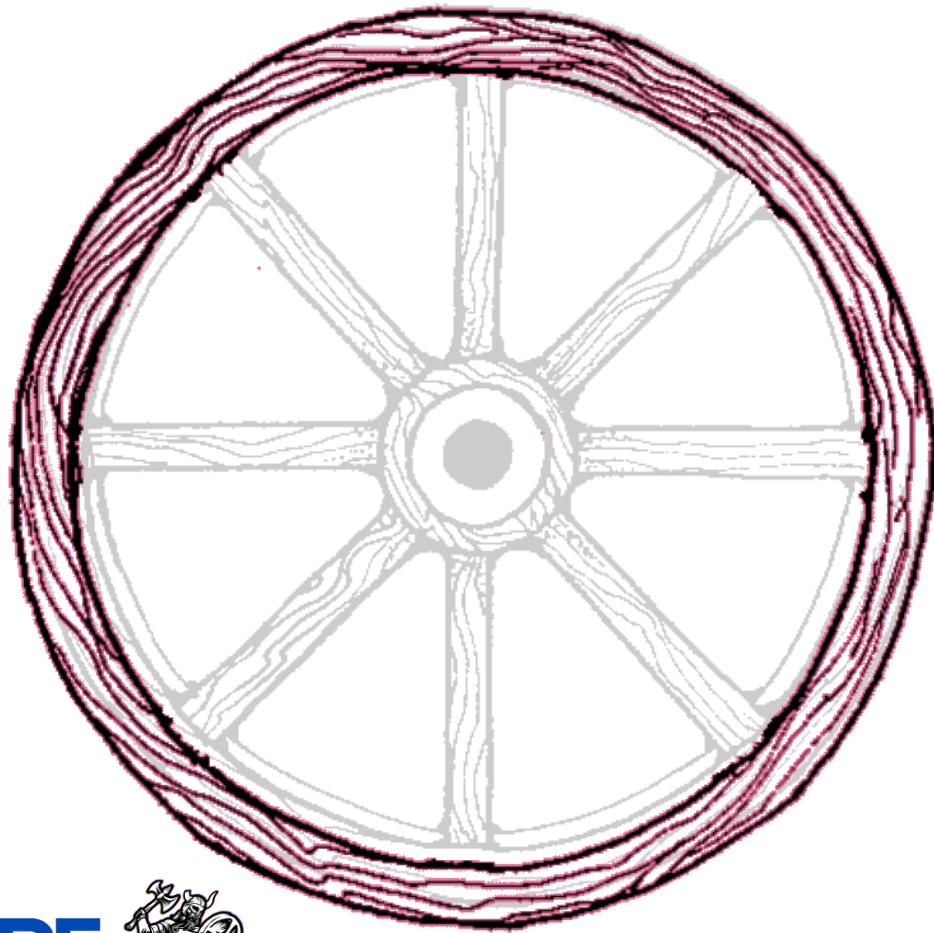


- **Threat-informed** approach to understanding how strategy is implemented through:
 - Detection
 - Response
 - Remediation
- Scenario-based assessments

Security Tooling & Infrastructure

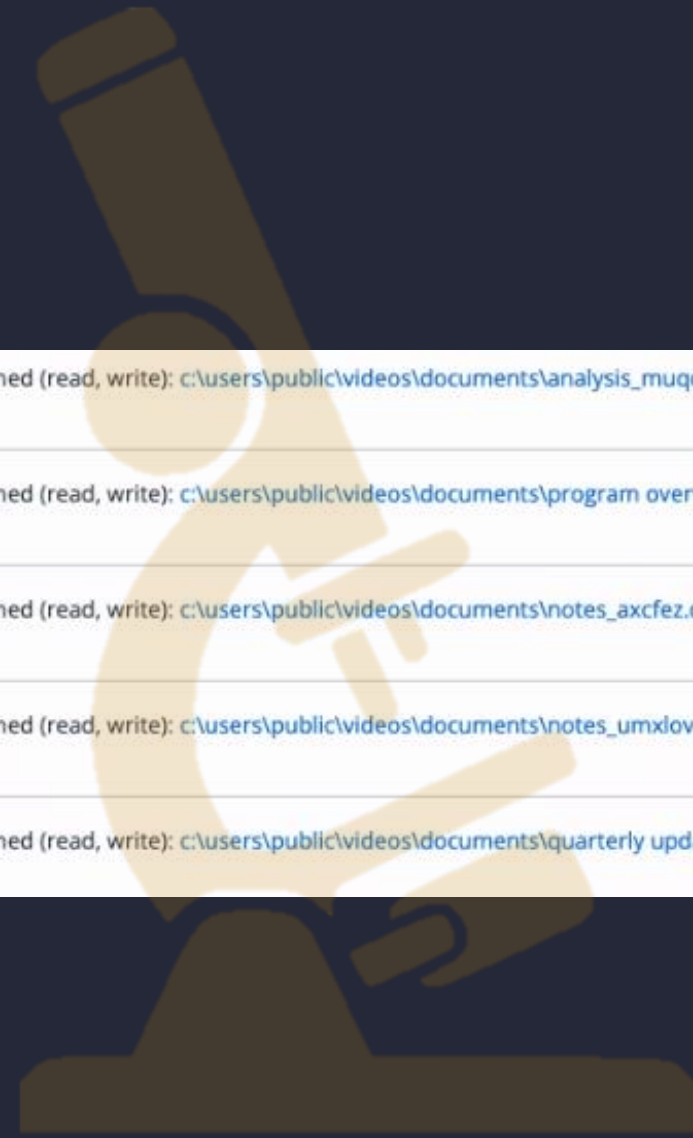
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- **Threat-informed** approach to enabling operations through tooling:
 - Selection
 - Configuration
 - Evolution
- Product assessments

Security, is an added layer of heuristic protection to stop any ransomware attack at runtime which {product} may have missed. When we tested the fourteen REvil samples referenced in Appendix A, this protection had a **prevention rate of 100%**.

A large, faint, stylized graphic of a microscope is positioned in the background of the right side of the slide, behind the table.

filemod	Opened (read, write): c:\users\public\videos\documents\analysis_muqqqk.pdf
filemod	Opened (read, write): c:\users\public\videos\documents\program overview_mmtsif.pptx
filemod	Opened (read, write): c:\users\public\videos\documents\notes_axcfez.docx
filemod	Opened (read, write): c:\users\public\videos\documents\notes_umxlov.doc
filemod	Opened (read, write): c:\users\public\videos\documents\quarterly update_ahmzyh.ppt

Bringing It All Back Together

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Strategy

Operations

**Tooling &
Infrastructure**



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Wrapping Up



Summary



Adversary emulation can help **contextualize** various levels of **security-decisions** towards providing real **impact to the business**

Thank you for your time and attention!