

DAG 2 - TIRSDAG



Program

- Adfærd og hvorfor det spiller en rolle?
- Mål, målgrupper og afrapportering
- Case-arbejde
- Frokost
- Fremlæggelse



For at skabe en stærk cybersikkerhedskultur må vi forstå, hvorfor medarbejdere træffer bestemte valg, og hvordan man kan påvirke disse valg gennem en forståelse af dem det handler om.



Relevante faktorer

- Manglende risikoforståelse
- Manipulation
- Vaner og bekvemmelighed
- Overbelastning af information
- "Det sker ikke for mig" syndrom
- Manglende konsekvenser ved overtrædelse
- Tillid til teknologi



Manglende risikoforståelse

Mennesker har en tendens til at undervurdere risici, især når de ikke umiddelbart kan se konsekvenserne af deres handlinger.

Det er vigtigt at forklare og visualisere potentielle konsekvenser af usikker adfærd.

Eksempler på manglende risikoforståelse:

- En medarbejder downloader en vedhæftet fil fra en ukendt e-mailadresse uden at indse risikoen for malware.
- Brug af usikre Wi-Fi-netværk uden at forstå faren ved potentielt at udsætte følsomme data.



Refleksion: Find et eksempel på hvor manglende risikoforståelse har spillet ind på jeres adfærd?



Social manipulation

Angribere udnytter ofte sociale manipulationsteknikker til at narre folk til at afsløre fortrolige oplysninger.

Forståelse af disse teknikker er afgørende for at undervise i, hvordan man genkender og undgår dem.

Eksempler på social manipulation:

- En medarbejder deler loginoplysninger over telefonen med en person, der hævder at være fra IT-support.
- En medarbejder klikker på et link i en e-mail, der er tilsyneladende fra en ledelsesmedarbejder, hvilket fører til phishing-angreb.



Refleksion: Find et eksempel på hvor I har været udsat for social manipulation?



Vaner og bekvemmelighed

Mennesker har en tendens til at vælge den nemmeste vej, selvom det kan være usikkert. Identificerings- og adgangsprocedurer bør derfor designes med fokus på brugervenlighed for at minimere modstand mod implementeringen.

Eksempler på vaner og bekvemmelighed

- En medarbejder vælger at bruge en simpel adgangskode som "123456" eller "password" for at undgå besværet ved at huske en kompleks kode
- En medarbejder anvender den samme adgangskode på tværs af flere tjenester for at undgå besværet ved at huske forskellige koder. Det udgør en trussel, da kompromittering af én konto kan føre til adgang til andre konti.



Refleksion: Find et eksempel på hvor vaner og bekvemmelighed er en hindring for jeres sikre digitale adfærd?



Overbelastning af information

Når medarbejdere konstant bombarderes med information om sikkerhed, kan de blive overvældede, hvilket kan føre til passivitet eller ignorering af vigtige sikkerhedsprotokoller. Struktureret, relevant og letforståelig information er nøglen.

Eksempler på overbelastning af information

- Medarbejdere modtager daglige sikkerhedsadvarsler via e-mails eller pop-ups, men ignorerer dem på grund af overbelastning af information.
- På grund af informationsoverbelastning overser medarbejdere gentagne opfordringer til at opdatere software, hvilket resulterer i sårbare systemer, der ikke er beskyttet mod de seneste trusler.



Refleksion: Find et eksempel på hvor l mener I har været udsat for overbelastning af information?



"Det sker ikke for mig" syndrom

Mennesker har en tendens til at tro, at de ikke er mål for cyberangreb. Dette kan føre til forsømmelse af sikkerhedsforanstaltninger. Uddannelse bør adressere denne opfattelse og vise, at alle er potentielle mål.

Eksempler på "Det sker ikke for mig":

- En leder ignorerer gentagne opdateringer til sikkerhedsprocedurer og -software, idet vedkommende tror, at virksomheden ikke er et mål for cyberangreb.
- En medarbejder undlader at lave regelmæssige sikkerhedskopier, da vedkommende tror, at data ikke vil blive kompromitteret. Dette kan føre til betydeligt datatab ved et angreb.



Refleksion: Find et eksempel på hvor "det sker ikke for mig" har gjort sig gældende hos jer..



Ingen konsekvenser ved overtrædelse

Hvis der ikke er klare konsekvenser for usikker adfærd, kan medarbejdere være tilbøjelige til at ignorere sikkerhedsprocedurer. Implementering af konsekvenser som en del af træningsprogrammet kan motivere til overholdelse.

- Eksempler på ingen konsekvenser ved overtrædelse:
- Medarbejdere, der gentagne gange bryder sikkerhedsprotokoller, oplever ingen konsekvenser. Dette reducerer motivationen for at overholde sikkerhedsreglerne.
- Medarbejder tager IKKE phishing-simulationer alvorligt, da der ikke er reelle konsekvenser ved at klikke på ondsindede links.



Refleksion: Find et eksempel på hvor "ingen konsekvenser" har påvirket jeres adfærd...



Tillid til teknologien

Mennesker stoler ofte for meget på teknologi og antager, at systemer altid vil beskytte dem. Det er vigtigt at understrege, at teknologiske løsninger ikke er fejlfri, og individuel opmærksomhed er afgørende.

- Eksempler på tillid til teknologien:
- En medarbejder gemmer følsomme dokumenter i en delt mappe under antagelsen om, at systemets indbyggede sikkerhedsforanstaltninger er tilstrækkelige til at beskytte dataene.
- En medarbejder tror, at systemet automatisk opdaterer og ignorerer manuelle sikkerhedsopdateringer.



Refleksion: Find eksempler på hvor "tillid til teknologi" har betydning for jeres digitale adfærd



Trusselsbillede / Risikoanalyse

Konsekvenser

		l Ubetydelige	2 Mindre	3 Alvorlige	4 Meget alvorlige	5 Katastrofale
eq	5 Ofte	5	Ю	15	20	25
Sandsynlighed	4 Sandsynlig	•	8	12	16	20
	3 Sjælden	3	6	,	12	15
	g Usandsynlig	2	4	6	8	Ю
	l Meget usandsynlig	1	Ŷ	3	4	5



Mål for tiltag





SMART-Mål

Hvorfor det er vigtigt: Mål fastlægger retningen og formålet med cyber awareness-programmet. At have klart definerede mål hjælper med at fokusere indsatsen og evaluerer senere succes. Målene bør være konkrete, målbare, opnåelige, relevante og tidsbegrænsede (SMART).

S - Specific

M - Measuarable

A -Achievable

R - Relevant

T - Timed

Start med at identificere specifikke mål for programmet. Dette kan omfatte at definere ønsket adfærdsændring, måle effektiviteten af træningsmaterialer eller reducere specifikke risici. Gør målene konkrete og brug dem som retningslinjer for programmet.

For eksempel kan et mål være at reducere antallet af rapporterede phishing-klik med 30% inden for det næste år i medarbejdegruppe X.



Målgrupper





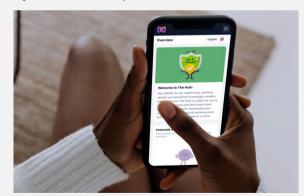
Målgrupper

- Målgrupper definerer, hvem programmet er rettet mod. Forskellige medarbejdergrupper kan have forskellige sikkerhedsbehov og risici.
- En målrettet tilgang hjælper med at skræddersy træningsmaterialer og strategier, hvilket øger effektiviteten af programmet.
- Tilpas træningen og kommunikationen til hver målgruppes specifikke behov. En bred tilgang tager hensyn til variationerne i medarbejdernes roller og ansvar.

Valg af aktiviteter / kanaler



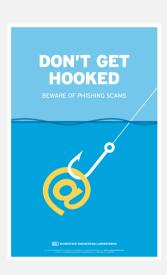
Fysiske kortspil



Interaktiv læring



Plakater



113

Roller og ansvar





Effektkæde

Aktivitet Output Resultater



Afrapportering





Afrapportering

- Afrapportering omfatter indsamling og analyse af data for at evaluere programmets effektivitet.
- Det er afgørende for at måle fremskridt, identificere områder til forbedring og demonstrere værdien af investeringen.
- Ved at definere klare nøgletal og rapporteringsmetoder på forhånd kan man kvantificere programmets indvirkning.
- For eksempel kan det inkludere regelmæssig rapportering af antallet af gennemførte træninger, resultater fra phishing-simulationer og feedback fra medarbejderne.



Afrapportering (eksempler=

1. Forbedring af phishing-awareness

Reducere antallet af klik på phishing-links i simulerede angreb med 30% inden for 6 måneder i afdeling XYZ

Sikre, at mindst **90% af medarbejderne genkender og rapporterer phishing-mails** korrekt efter en awareness-kampagne på 3 måneder.

2. Deltagelse i træning

Sikre, at mindst 95% af medarbejderne gennemfører XX awareness-træning inden for de næste 12 måneder.

Øge deltagelsen i XX hands-on workshops fra 60% til 80% inden for 9 måneder.

3. Rapportering af hændelser

Øge antallet af sikkerhedshændelser, der rapporteres til it-afdelingen, med **40% inden for 6 måneder**, som et resultat af øget træning i hændelseshåndtering.

Reducere tiden fra identifikation til rapportering af en sikkerhedshændelse til gennemsnitligt 1 time inden for 6 måneder.

Afrapportering (eksempel på phishing tool)





Datapunkter der kan måles på

Maturity Level	Description	Program Indicators	People Indicators	Time to Achieve	Metrics	Steps to Next Level	
STAGE 1 No Security Awareness Program		There is no securify awareness program. Leadership does not discuss or care about securify awareness.	Employees never discuss security or exhibit secure behaviors.	N/A	None	Identify the regulations or standards that you must adhere to. Identify security awareness requirements for those standards. Identify security awareness requirements for those standards. Powlog or purchase tabeling that meets those requirements. Powlog or purchase tabeling that meets those requirements. Powlog scarcing awareness training. Track and document who completes the training.	
STAGE 2 Compliance Focused	compliance or audit requirements. Training is limited to annual or and housise. Employees are unusure of organizational policies and for their role in protecting their organizations information association information association in the processing the processing their organizations information association is required to adhere to. However your organization is not effectively managing it's human risk.	Program is led by someone who is only dedicated part-time to the security awareness efforts. 5 ecur by awareness report to 60c, compliance, aucil. legi ler human resources. There is no strategican training topics and be low can deployed in random fines. There is no strategican training topics and be low can deployed in random fines. There is state coordination or partnership with other departments, such as communications and human resources. Leadership perceives security as purely a technical issue. Taking is primarily once a year, other mandetury. There is title to no communication to the worldore about security beyond the annual training.	 People have a "ler's get this over with" attitude. People perceive seconity as something that the fill of the people with the people of the second is something they also to disc. People file second is something they also to disc. People file second is something they also to disc. People file second as amagent, not become any existing perceived as amagent, not become any existing perceived as prompts of the second perceived perceived as amagent, not become any existing and provided as amagent of the people second perceived as amagent of the people second perceived as a people second pe	It depends on the standards, regulations or legal recognitions, or the standards of the sta	- Namber (procreating of people that have completed stability) - Namber (procreating of people that have signed Acceptable-le to Pilot - Namber (or or sile training sessions in ore year - Namber (or or sile training sessions in ore year - Namber (frourse) valuerness naturalish distributed (ir evalueters, posters, etc.)	I dentify and gain support of key leaders and stakeholders Create Project Charter, dentifying things such as scops, landership, goals, objectives, clared project Charter, dentifying things such as scops, landership, goals, objectives, dentifying her will be repossible for the assures program. To ensure greatest success person should be declicated fill-lies, have strong people salls, and report to and be particularly to a solid particular to the successful property of the tap human files you will be present program. The contrader with holders Resport I dentify the tap human files you will be present program cannot be solid salls. The siney also requires some type of furman risk ascessment. Create an Androscy Board with members from key departments. **Create an Androscy Board with members from key departments. **Fain how you will communicate for, origing, and trains your ventificate on these key bels **Pain how you will communicate for, origing, and trains your ventificate on these key bels **Create execution glan with milesticates to include metrics. **Create execution glan with milesticates to include metrics.	
STAGE 3 Promoting Awareness and Behavior Change	continual reinforcement throughout the year. More mature programs in this stage identify additional roles	The program is led by soneconed dedicated full-time to managing the security auszeness pergian. In addition, this indevidual often has strong communication (people skills, people in addition, this indevidual often has strong communication (people skills, people in addition, this indevidual often has strong communication (people skills, people in addition, people skills, people in that has identified the scope, posits, objectives, and justification for pergian. Through a risk assessment, and in partnership with different security team members (DFIR, SOC, otherwise that the most effective transparent of use region the organization's top human risks and the transparent people in the security charges. Through a risk assessment and the people in the people in the people in the security charges. The people is assessment actively partners and collaborates with various departments within its done through an admirphor board. The people is people beyond just amount training and includes continuous reinforcement throughout the year. It also usually includes a picking institution program. Note making programs have identified different departments, roles or engions that represent sector training. **Region and the programs have been department and require specialised or additional training for the sector training.**	Employees understand that technology above cannot provide the control of the	Depending on the behavior you are perfectly a specific or the perfect of the perf	This stage is all about measuring the behaviors as the stage is all about measuring the behaviors of the stage of the stag	 Establish a process to give Isadenship regular updaten on the awareness pregnan i Islendiy a specific date when the security awareness program is reviewed and up the Island of the Island of Isl	
STAGE 4 Long-Term Sustainment and Culture Change	program. As a result, the program is an established part of the organizations culture and is current and engaging. Program has gone beyond changing behavior and is changing the organization of the changing the undersore shared attitudes, perceptions and beliefs about, cytoencouring. WAILE* Toour program has gone beyond impacting behavior and has started building a strong security culture, we security culture, by security and the strong security culture and only creates shared attitudes, perceptions and beliefs about.	Program is led by someone dedicated full-time to managing the security awareness program and has a tean of multiple full-time employees focusing on managing floration (FCOS). Program is actively reviewed and updated on an annual tasks. Program is actively reviewed and updated on an annual tasks. Cadenship believes and and is invested in other time support of the program. Program lead is calculated to the security awareness team and filterest elements of the security frame believes in investiging in human controls equally as much as technical controls. Here is a strong enterpolic petitives the security awareness team and different elements of the security same ISGO, DIFI, CTI, etc.). Security managements team in helping in the development of security policies, processes and procedures to ensure thay are seen to security awareness team in helping in the development of security policies, processes and procedures to ensure thay are seen to security awareness team in the procedures to ensure that year assessment and comply with. Security managements team in helping the security team with all organization-wide security communications or security sold reli-outs.	 Good security practices are balled into who we are and what we do. Chrallywees edicitate others on good security or Englayees scaled providing ideas or aggretion on the state of the security of the organization. Englayees and providing ideas or aggretion on two to improve security in the organization. Englayees or departments activity reach out to make a security or and organization. Englayees or beinding by the security team. Experiment lands and teams request security review claudits. The security teams and their security efforts are playing the security or and the security of the same playing the security or and the security of the same playing the security or an activity or and the security or an activity or an activity or an activity or and activity or an activity or activity or activity or activity or activity or activity or activity. 	Impacting your organizational culture takes much longer than impacting to the property of the	 Survey people's attitudes, perceptions, and beliefs towards information security fifthe can be to been produced by the people of the control of the survey of the control of the control of the control training. Conduct from people or interviews for deep dives into people's attitudes, perceptions and beliefs with the people of the control of the control of the survey of the control of the control of the control of the survey	Create a metrics dearboard that combines all the information/measurements from the different maturity levels. identify and allow this landership's strategic priorities. identify and allow with landership's strategic security frameworks or models.	
STAGE 5 Strategic Metrics Framework	Program has a robust metrics framework aligned with and supporting organizations mission and business goals. Program is no large is the measuring and reporting on changes in behavior and culture, but utilinately how these changes are reducing risk and excellent glossed policy achieve their indexing state of the colorised their improving and able to demonstrate return on investment. WALLEY how programs is aligned with and actively supporting our leadership's strategic priorities and your organization's business goals (mission).	 Program is coordinating with leadership to understand and align with the strategic security frameworks and models they use. Security awareness owns with bib unless leaders to identify and align with their strategic priorities. Metrics are collected on a regular basis, often automated. Metrics are provided to serior leadership demonstrating value at a business level and showing alignment with strategic business province. Metrics are aligned with the security framework(s) that your leadership has committed to. 	Leadership actively requests and uses security awareness metrics to measure their organizational progress and/or compare departments across the organization.	This is a long-term effort aligned with your overall program, as you are continuably updating and improving your ability to collect useful metrics that you can both act on and provide to leadership.	- A metrics dashboard that tracks the key metrics covered in these changes are impacting and reducing owned which can be measure in starting emitres can be able to a loverall number of security incidents Overall number of security incidents Average time to recover from an incident Average time to recover from an incident Average time to the cover from an incident Number of policy, audit or compliance violations. In addition, show leadership how the awareness programmed and applications.	risk to the organization, AWAREN SMNS CYBERSECURI LEAD EDER SUITE	

Dagens opgave

I har indtil 12.15 (inklusiv frokost) til at vælge én af de fem case-virksomheder og udvikle et bud på en **awareness-strategi**. Strategien skal som minimum indeholde følgende elementer.

- 1. <u>Trusler/Risiko</u>: Definer de trusler, og dermed risici, som virksomheder står overfor og skal håndtere
- 2. <u>Målgruppe:</u> Definer ud fra truslerne hvem virksomheden skal fokusere på, ift prioriterede målgrupper
- 3. Aktiviteter: Beskriv de tiltag, I foreslår som skal øge bevidstheden omkring sikkerhed og ændre adfærd
- 4. Kanaler: Angiv, hvilke kommunikationskanaler der skal bruges, og hvorfor.
- 5. Ansvar og ejerskab: Hvem anbefaler I står for hvad
- 6. <u>Begrundelse</u>: Forklar, hvorfor netop denne tilgang vil være effektiv for virksomheden ift ønskede effekt/output
- 7. **Evaluering**: Forklar hvordan I har tænkt jer at måle på indsatserne og dermed også forbedre løbende

I har 10 minutter til at præsentere jeres løsning for virksomhedens ledelse. Målet med præsentationen er at overbevise ledelsen om at allokere ressourcer fra deres budget til at implementere jeres strategi, og være tydelig omkring den ønskede effekt I vil skabe.



TAK FOR I DAG!