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Stop phishing attacks

Tell me and I forget, teach me and I may remember, involve me and I learn.

As computer systems become increasingly complex, the human component becomes an interesting entry point for attackers. Research shows that in 29% of successful data leaks, employees provided access to attacker unintentionally.

Phishing is the practice where cyber criminals email employees asking them to perform a certain action e.g., clicking on a malicious link which installs software and allows an attacker to gain access to sensitive data or take control over the system.

To educate employees about phishing, organizations often offer trainings and conduct awareness campaigns. However, the knowledge fades with time which makes it imperative to have these training and awareness campaigns to be repeated periodically.

We suggest a continuous phishing awareness campaign, where employees are trained and assessed with periodic

simulated attacks. These campaigns would help in educating the employees on real time scenarios and complement existing security workshops.

Understanding the threat

To protect an organization against phishing, it is necessary that employees understand how cybercriminals work. A common attack vector is to spoof the email address of the sender, e.g., pretending to be a trusted colleague. Employees tend to fall for this trick as it is common human behaviour to help others in need, which the attackers take advantage of.

How to respond

To quantify the risk of phishing within your organizations, it is necessary to measure employee behavior in a privacy preserving and ethical manner. We provide the means to measure employee behaviour through customized stimulated phishing attacks as part of the ongoing learning cycle. The awareness is reinforced by a follow-up e-learning module on phishing.

The number of technical security measures within organizations is increasing over the past years. As a result, attackers are focusing more on the weakest link: the human factor. Phishing is a method whereby malicious e-mails are sent by cybercriminals with the intent to gain first point of entry into the corporate network. Educating employees to recognize and respond to phishing attacks is the best step towards a more secure organization.

A combined solution

Our comprehensive approach starts with an awareness campaign and is followed up with the following actions:

Campaign Preparation

1. Phishing test - Testing the susceptibility of your employees
2. Improving the phishing awareness
3. Monitoring the awareness improvement

The awareness campaign begins with introducing the employee to the subject of phishing. During this introduction, the employee will gain knowledge about phishing, and the employee will be informed that at a given moment, they will get first-hand experience with a phishing attack and an e-learning.



1. Phishing Campaign

Before the test begins, Deloitte works with the organization with the necessary preparation, such as how to deal with higher volume on the IT-services, inform help desk to handle potential employee reactions and help in deciding the right phishing scenario.

When testing starts, Deloitte sends the crafted phishing e-mails to the (targeted) employees and measures a few parameters, such as how many employees click the malicious link, at what time were the links opened, what type of information the employees disclosed, and the

success rates among departments or business units. If the test is part of a recurring service, Deloitte can also provide trends between tests, so the organization can determine the effectiveness of its awareness campaigns.

The infrastructure for executing the phishing tests is internal and assures the privacy of the shared information and the link between the employee and the results is preserved.

<p style="text-align: center;"><i>- Is dit bericht niet goed te lezen, bekijkt dan hier de online versie -</i></p> <p>Deloitte.</p> <p><small>Nederland Employee Services & Workplace Services 21 november 2014</small></p> <p>Sinterklaasactie Wat staat er op jouw verlanglijstje?</p> <p>Beste collega,</p> <p>Binnenkort is het alweer 5 December, de meest gezellige tijd van het jaar. Met deze gezelligheid is het echter ook de duurste maand van het jaar. Daar willen wij jou, in samenwerking met onze partner, in tegemoed komen in de vorm van een kortgache.</p> <p>Sinterklaasactie De actie is vrij simpel en zit in de kracht van het 'as one' gedachte. Door je interesse in deze actie kenbaar te maken via de actiepagina leggen we jou interesse vast. Vervolgens gaan we na de sluitingsdatum op 26 november naar onze partner met het aantal inschrijvingen. Op basis van het aantal inschrijvingen zal S&B ons een passende korting aanbieden. Deze korting begint vanaf 10% en kan optlopen tot wel 40% korting op al jouw decembercadeaus!</p> <p>Registreer snel via onderstaande link om je interesse kenbaar te maken. Doe dit voor 26 november 12:00 en onthoudt, hoe meer inschrijvingen hoe hoger de uiteindelijke korting!</p> <p>Sinterklaasactie portaal: https://sinterklaasactie.deloitte.nl/04/03/</p> <p>We rekenen op veel interesse en zien er naar uit jullie een geweldig aanbod te doen!</p> <p>Namens het Sinterklaasactie-team,</p> <p><i>Marcus van Zuijdam</i> Marcus van Zuijdam Employee Services & Workplace Services</p>	<p>Deloitte.</p> <p><small>België Service Desk 30 May 2013</small></p> <p>Tomorrow is Today Tomorrowland VIP packages</p> <p>Dear colleague,</p> <p>Because of the success of the Tomorrow is Today action, our CEO has decided to give away tickets for Tomorrowland. This in order to thank you all for your active participation in our Tomorrow is Today efforts. We will give four lucky winners a chance to win a VIP 'Discover Europe' package. In addition, 50 'Full Madness'-tickets will be raffled to lucky winners. The winners will be randomly chosen from the pool of subscriptions.</p> <p>How to win? Participating is simple, just go to our Tomorrowland portal and register on the website. You will have a chance to win the Full Madness-tickets or the grand prize VIP 'Discover Europe' package, including</p> <ul style="list-style-type: none"> • 3 days of festival madness for two; • 4 or 5 cities to visit throughout Europe; • Including Gold class hotels in every city. <p>Visit the official Tomorrowland website for more information about this incredible (and sold out) package.</p> <p>In addition, you will be able to enter three friends into the raffle. These friends will not be able to win the VIP package, but they will be able to win two of the 50 Full Madness-tickets.</p> <p>Register on the portal using the link below:</p> <p>Tomorrowland portal: http://tomorrowland.deloitte.com/01/03/04/</p> <p>Winners will be announced on XXXXXX, keep an eye on your inbox!</p> <p>Thank you, and good luck!</p> <p>Service Desk Deloitte BE</p>
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2. E-learning

After the test, the employees can be informed about the results and what can be learned from these actions. As part of this feedback, Deloitte has also developed an e-learning module including the final online exam. E-learning provides insight into the threats, educates the employees how to (re)act during an actual attack, and improves the overall security awareness of the employee. Because the e-learning closely follows up on the phishing test, the employees are usually very interested in the material.

The e-learning can be customized for the

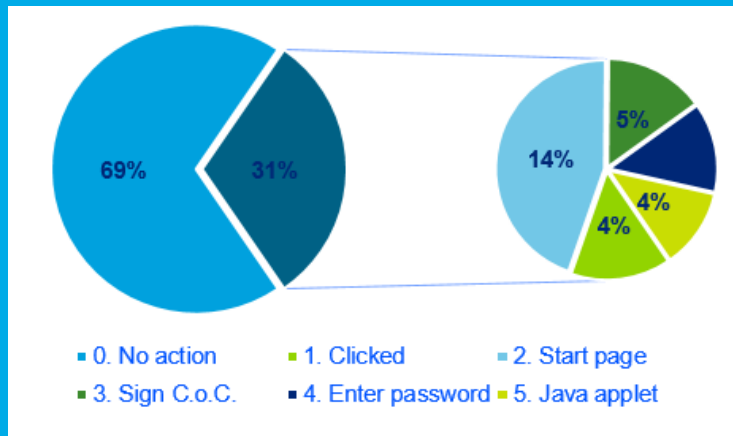
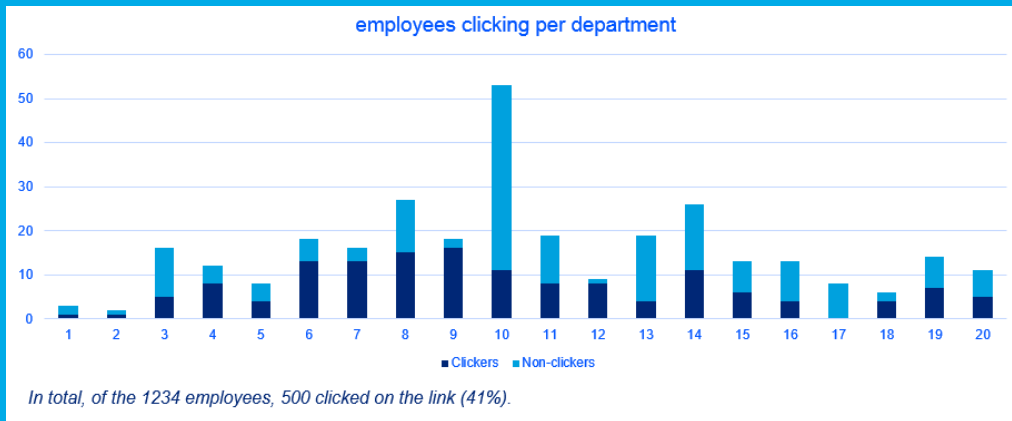
organization, which ensures better transfer of knowledge.

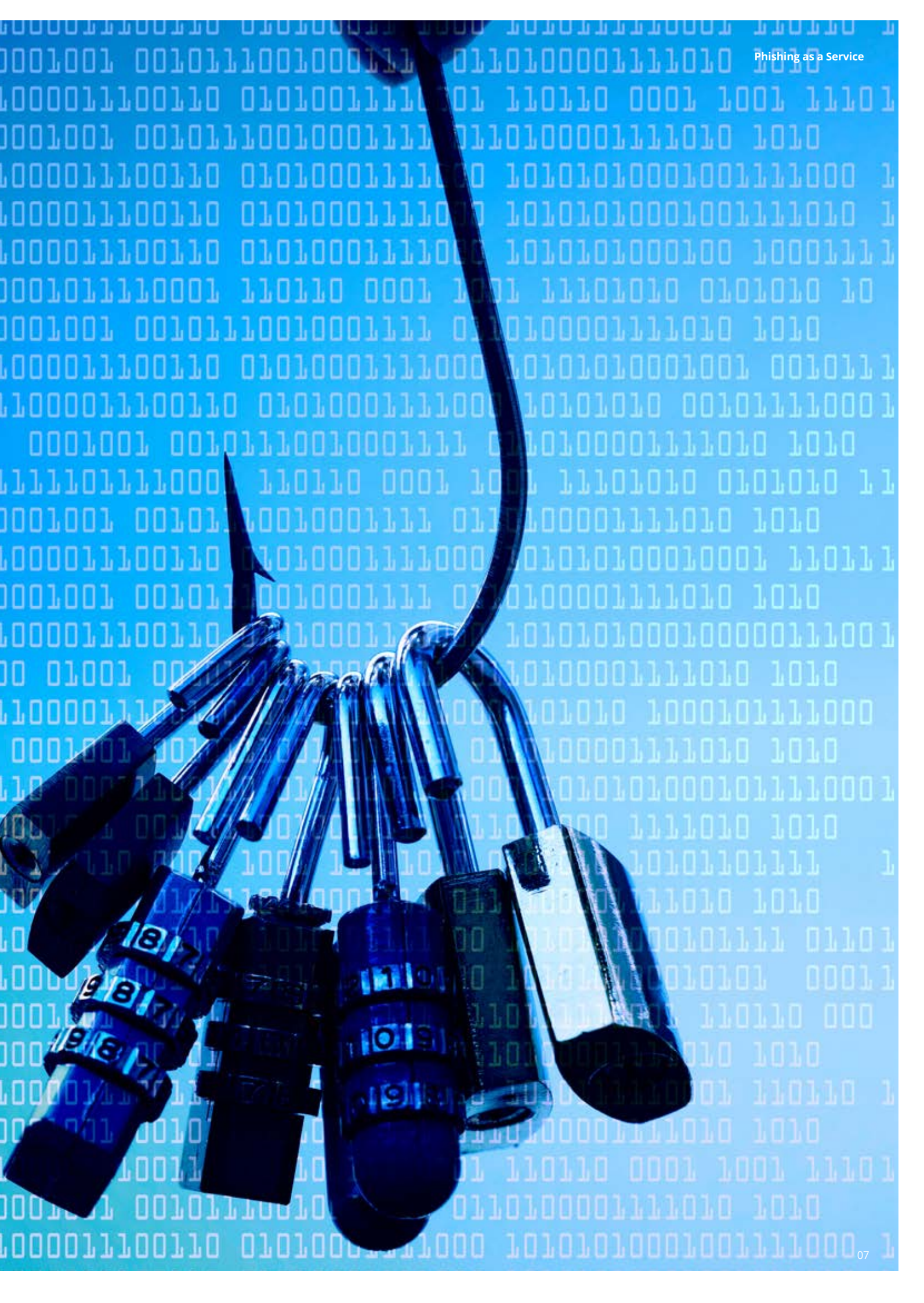
The e-learning does not solely focus on the technical aspects, but also covers other areas such as psychology and business impact. With a preliminary questionnaire, the content of the e-learning is dynamically adjusted to the level of knowledge of the employee. The e-learning can be provided in parallel with a workshop about general cyber security awareness to raise the overall awareness and answer related questions.

3. Monitoring Improvements

The final step in the process is making the test results measurable and presenting them after they have been anonymized. We regularly track the results and monitor the awareness level. In addition, the result can be used as input for consecutive phishing tests.

Deloitte offers a dashboard with statistics of the awareness level in regard to phishing within your organization. The statistics will not only offer insight into the progress within your own organization but also allow you to see how your organization is doing in comparison to peers.







Why Deloitte

Deloitte has a broad range of experience when it comes to consultancy and assessment of information security within both private businesses and government institutions.

- Deloitte has plenty of experience with securely performing phishing attacks and reliably training organizations.
- Deloitte has an infrastructure to send thousands of e-mails per minute and store results securely and anonymously.
- Deloitte used the infrastructure, the training materials, and the e-learning course for a number of clients. They are effective and can be easily tailored to provide a custom training, specific to the organization.

Deloitte leverages its Cyber Intelligence Centre (CIC) to deliver “Phishing as a Service” to its clients across the globe. The CIC combines deep cyber intelligence with broad business intelligence to deliver relevant, tailored, and actionable insights to inform business decision-making.

The CIC fuses a number of services together to provide our clients with a truly tailored service that enables them to fully understand their cyber risks and adopt proportionate responses in an increasingly digital and interconnected business environment. We do this by providing them with improved visibility of threats and assets, based on highly relevant intelligence that reflects their specific business, market, and industry context.



Key Contacts:

Rohit Mahajan

President - Risk Advisory
rmahajan@deloitte.com

Gaurav Shukla

Partner - Risk Advisory
shuklagaurav@deloitte.com

Anand Tiwari

Partner - Risk Advisory
anandtiwari@deloitte.com

Sandeep Kumar

Partner - Risk Advisory
kumarsandeep@deloitte.com



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