Raconteur

CYBERSECURITY

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CYBERSECURITY

THE **TIMES**

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POLICY

How Westminster plans to bolster digital resilience

The government has revealed details of the cyber security and digital resilience bill, which aims to protect the UK's critical infrastructure

Tamlin Magee

he UK government has released a policy paper revealing further details of the upcoming cyber security and resilience bill, which was first teased in the King's Speech in July 2024.

The bill, which will enter parliament later this year, has three primary goals. One is to strengthen the cyber defences of IT providers supplying government or public services. Most suppliers for the public sector are subject to certain cybersecurity reporting obligations under the NIS Regulations 2018.

Westminster plans to extend these regulations to include IT providers for public sector organisations. It estimates that up to 1,000 IT suppliers would be redefined as 'critical national infrastructure' and therefore subject to certain cybersecurity safeguards.

The designation will be applied to IT suppliers of any critical public services, as a cyber attack or similar disruption at these firms could sig- party sites and 64 operators to fall nificantly impact public services. Suppliers that fail to comply with These plans come in response to attacks, which enable attackers to tors and a "unified set of objectives" access large organisations through for implementing regulations. vulnerabilities in their supply chain partners.

powers" at the Information Commissioner's Office, with the aim national security". of enabling the regulator to identify cyber risks more proactively.

Finally, the bill proposes giving update cyber regulations without through parliament. According to the policy paper, the aim is to enable the government to introduce regulation quickly in response to sudden changes in the cybersecurity landscape

Three further measures are being considered, but are not yet included in the bill.

Data centres, which were rede fined as critical national infrastructure in the UK in September 2024. could be included in the scope of the regulation. Under the proposal, public data centres with at least one megawatt (MW) capacity would be covered by the regulation. For enterprise data centres, the threshold would be 10MW.

Of the 224 colocation data centres in the UK, managed by 68 operators.



the government expects 182 third- | just a breach, it was a failure in how in scope of the regulation.

Secondly, the government may the additional requirements could publish a "statement of strategic face fines of up to £100,000 per day. priorities for regulators". This would create a standardised cyberan observed increase in supply-side security framework for all regula-

Lastly, the secretary of state may be given executive powers to Also in the bill is a plan to demand regulated entities to take strengthen "information-gathering | action against emerging threats, if | step forward in boosting the doing so is deemed "necessary for

Industry commentators welcomed the details of the proposals, which represent a "necessary the secretary of state powers to course correction" according to Etay Maor, chief security strategist at Cato Networks

> "When attackers hit London hos pitals by compromising a managed more powers to mitigate and more regulatory scrutiny to frontier service provider (MSP), it wasn't respond to cybersecurity incidents.

we delegate trust," Maor says. "MSPs are deeply integrated in the organisation, and have privileged access and wide operational reach. Treating them like passive vendors ignores the fact that when one falls. the blast radius is massive."

The announcement came in the

wake of a devastating cyber attack

on Synnovis, a private company that

provides pathology services to the

NHS. After the attack, some patients

were informed they may have to

wait up to six months for blood tests.

RUSI, a defence think-tank, says

mandatory reporting of ransom-

ware will be particularly useful to

better understand the cybercrime

"We know cybercrime is a really

big issue," he says, "but we don't

it to the UK, which makes it hard to

A bill focused on AI oversight was

conspicuously missing from the

government's latest announce-

ment. The Labour Party promised

in its election manifesto to direct

AI operators including Google,

Anthropic, Microsoft and OpenAI.

When it comes to AI security, there-

fore, there are plenty of potential

risks that industry and government

must address. That's according to

Julian David, CEO of TechUK, a tech

He adds that the government must

work closely with industry when

crafting AI policies to ensure that

any new legislation does not inhibit

growth and innovation unnecessar-

ily. David says getting the balance

right is important for the UK's AI

and also for the prime minister's

ability to achieve his goals for the

industry group.

landscape in the UK.

design effective policy."

Jamie Maccoll, a research fellow at

Martin Lee, EMEA lead at Cisco Talos adds: "Critical services must be secured against a constantly evolving threat landscape. The government's proposals are a welcome nation's digital resilience."

But ensuring government and reg- know the scale of it or the true cost of ulators work closely with industry on the detail and delivery will be a crucial next step, Lee emphasises.

The government announced the bill in July, promising to introduce mandatory reporting for ransomware attacks and grant regulators

total cyber incidents managed by the National Cyber Security Centre in the 12 months to September 2024 were deemed nationally significant

acute outpatient appointments or elective ocedures were postponed ast year thanks to a cyber attack on an NHS supplier

F

that cannot be ignored. This year's keynote sessions adthreat seriously. might redefine what's possible. science, strategy and ethics.

most at risk.



out of

'Quantum is not just a technical challenge'

This year's Infosecurity Europe will prepare security professionals for a wave of emerging threats

gain host Infosecurity Europe, the most influential information-security industry event. This and we've curated a programme that reflects both how far the industry has come and how advanced technology is changing cybersecurity.

Among the biggest shifts on the which has the power to transform bersecurity. Once a distant concern, quantum computing now has real-world implications. The 2025 ediissue front and centre, providing insight into potential consequences

dress changing perceptions of quantum computing. The US Naand researchers are taking the

On 3 June, we're opening the conthe world-renowned physicist and the future of computing. In a session Computers", he'll look at the science behind this emerging technology. the structure of black holes, how

The session serves as a reminder challenge, it's a conceptual one that demands a broader conversation on

Following this is a panel featuring industry experts including Daniel Cuthbert from Santander, IBM's Anne Leslie, Karl Holmqvist from Lastwall and Joe Tidy, a cyber corre spondent and author at BBC News. In a discussion titled "Quantum Computing versus Cybersecurity The Next Arms Race", they will examine how advances in quantum computing will reshape cyber defences, explore the rising threat of 'harvest now, decrypt later' attacks and assess which industries are

The session will also cover how the industry is responding through ini-

com 3 to 5 June 2025, Lon- | post-quantum cryptography into don's ExCeL Centre will their existing systems.

More broadly, the event will explore the full scope of security challenges facing today's organisations. vear marks our 30th anniversary. with eight content stages covering everything from ransomware and AI to regulation and geopolitics.

Education will take centre stage this year with the launch of Infosecurity Europe Masterclasses, powhorizon is quantum computing, ered by SANS Institute. These instructor-led sessions are designed industry, society and, of course, cy- | to equip professionals with practical skills in digital forensics, cloud security and security culture. The masterclasses will feature live simution of Infosecurity Europe puts this | lations, deep-dive techniques and actionable takeaways for immediate workplace implementation

Also new to 2025 is the Infosec Hub, a dedicated space for strategic learning to support cyber professionals with selecting and buying tional Institute of Standards and the right solutions. It includes dem-Technology (NIST) has already for- os, peer discussion groups and a malised the first set of post-quan- | clinic where analysts such as Fortum cryptography standards, rester and Frost & Sullivan will prowhich indicated that policymakers vide guidance on purchasing or implementing cyber solutions.

On 4 June, we'll welcome Abadesi Osunsade, the founder and chief ference with a keynote session with executive of Hustle Crew, to the keynote stage with a discussion ticommunicator Professor Brian Cox, | tled "Taking Up Space: How to Lead who will explore the intersection of the Charge in Cybersecurity", a black holes and quantum mechan- | conversation aiming to help securiics, and discuss the implications for typrofessionals build their confidence, establish a personal brand titled "Black Holes and Quantum and enhance their careers.

This year's Infosecurity Europe will have more than 380 exhibitors and countless opportunities to they store information and how this learn, connect and collaborate. The agenda is packed with speakers from across industry, government that quantum is not just a technical and academia who will share practical security strategies, provoke debate and bring the cybersecurity community together to build a safer digital landscape



tiatives and what steps security Brad Maule-ffinch leaders can take to integrate Event director. Infosecurity Europe



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PRIVACY

Public trust in digital tech plumbs dismal depths

Privacy is an increasingly important feature in digital interactions. Why are so few businesses taking note?

Tamlin Magee

rust in digital services has plummeted as consumers them to protect their data. And companies that violate their users' privacy risk losing customers

These are the findings of the 2025 Digital Trust Index, produced by Thales, the French aerospace and data, given the many stories of cata- know that the path to doing so is defence company. The report, which surveyed 14,000 consumers across 14 countries, paints a bleak picture of consumers' trust in most digital interactions.

News and media is the least trusted sector, according to the survey. Only | ency about what data is being col- | where to start. Do you reject or accept 3% of consumers said they trust news and media organisations with their | sovereignty and ownership of their | in, in terms of getting things done. personal data. Respondents also labelled organisations in supply and logistics (4%), social media (4%), transportation (6%) and hospitality (7%) as particularly untrustworthy.

At the other end of the spectrum. people appear most willing to hand their personal information to firms in the banking sector (44%) and government organisations (41%).

"It's a pretty depressing state of affairs," says Rob Elliss, vice-presifeel that the onus is on dent of sales for Thales across productor service. EMEA. Without trust, he explains, businesses will struggle to develop their digital capabilities.

> It is perhaps little surprise that people distrust brands with their strophic data leaks and cyber often circuitous and complicated attacks appearing in the media. "Privacy is much more in the pub- ensure this right

> lic psyche than it used to be," adds Elliss. "The majority of consumers | feel that privacy is an uphill battle, expect a greater degree of transpar- adds Elliss. "Many people don't know lected and also a certain degree of cookies? There's a fatigue that creep own data.'

Although GDPR imposes restric- bewteen data privacy and security on tions on how organisations can use the one hand and ease of use, access entertainment (5%), retail (5%), the data they collect, there is a and reliability of services on the other sense that it is ultimately the responsibility of individuals to vacy is attractive to consumers safeguard their own information. Almost two-thirds (63%) of those new privacy features for its handsets surveved believed that too much since 2014, after its CEO. Tim Cook onus is placed on the consumer to highlighted the issue of consumer

third said they only share data when it's absolutely necessary to access a

Anyone who has tried to regain control of their data from a data broker, the names of which are often hidden in the terms and conditions of any digital service, wil even though GDPR is meant to

"Trust is so low because consumer

He says a better balance is needed Some brands understand that pri Apple has consistently developed protect their own data. More than a tracking in an open letter. Meta

WHAT KIND OF PRIVACY RIGHTS DO CONSUMERS EXPECT? Thales, 2025 Privacy rights consumers expect in interactions with brands and governments Right to erase my personal data **→ 52%** Right to be informed that my personal data is being collected Right to correct my personal data Right to request a copy of my personal data 31% Right to move my data from one platform to another • 25% I do not expect any privacy rights online 14%

Trust is low because consumers feel that privacy is an uphill battle. Most people don't know where to start

> which has been fined for violating data privacy rules in the EU, has regulated industries, I don't think since emphasised user privacy and introduced end-to-end encryption for chat services across Facebook Messenger and Instagram in 2023. But, despite consumer demand, few companies are focusing on data security and privacy tools, that privacy as a key selling point. "A lot of consumers are rejecting brands precisely because of the excessive amount of data they feel is being gathered and the absolute lack of transparency as to where that data is earn trust is to simply keep less cusheading and what's being done with it," says Elliss

> The banking sector – the most trusted sector in Thales' report might suggest a route forward. it resides or whether it's protected Finance is heavily regulated and banks have been incentivised to demonstrate their security credentials to customers. "That is very visible to the public," says Elliss.

> He believes that companies could gain consumer trust by following the examples of firms in regulated industries. Organisations should it or simply delete it. demonstrate the steps they are taking to protect data, whether from tive data ought to take "very visible" cyber attacks or sovereign controls, measures to protect and control and should offer customers ongoing access to their data, Elliss says.

> Ironically, however, consumers prise level, but given the dearth of are apparently bothered by basic digital trust among consumers, that data-protection measures. About may soon change.

How to use AI to outpace tomorrow's cyber challenges

Cybercriminals are using AI to launch faster, more targeted identity attacks. To keep up, organisations must adopt proactive, Al-driven security strategies

Cybercriminals have even developed autonomous attack frameworks

using sentiment analysis to craft highly targeted spear-phishing campaigns. isations struggle with visibility chal-What's more, Al is enabling more persistent, adaptive and scalable attacks, forcing security teams to defend against a wider range of threats at speed. "Cybercriminals are weaponising

that operate

generative AI for more convincing social engineering and using AI to iden tify attack paths through complex systems," says Dmitry Smilyanets, a senior director, product management and engineering at cybersecurity company Recorded Future.

one in six people surveyed by Thales

said they have abandoned brands or

service providers because of bother-

But organisations must govern

access to data, systems and net-

works. And Elliss says there are

many passwordless technologies

that provide robust user protection,

biometric authentication.

such as FIDO tokens, pass keys and

"It's about using commonly availa

ble technologies and making it clear

to your customers what vou're

using," he says. "Outside of highly

companies make enough noise

about the measures they're putting

He continues: "If brands deployed

more sophisticated authentication.

would rapidly lead to an increase in

So firms can strengthen privacy

measures and empower users to

access their data. But another way to

There are plenty of companies

holding and processing sensitive

data with little knowledge of where

Sometimes removing data or opt

ing not to request certain details is

the simplest solution. "That's some

thing we often overlook," Elliss says.

Organisations seeking to win cus

tomer trust should first understand

where the data resides, then protect

Firms that do hold or rely on sensi

access, Elliss adds. This is not yet

commonly understood at the enter-

consumer trust.

tomer information

according to Elliss

place to ensure your protection."

some password requirements.

previously took months to develop now emerging in weeks or days," says Smilyanets. "The velocity of modern attacks also frequently outpaces humans' response capabilities, with automated attack tools able to compromise systems and spread laterally within minutes of gaining initial access." nerable, as the expanded attack





tials are prime targets for sophisticated threat actors armed with Al. ever before. presence they effectively increase the

without human direction, and are more potential entry points for attack-

"The attack timeline has become significantly shorter, with techniques that the 2024 Verizon Data Breach Organisations using extensive soft- | Even sophisticated behavioural-analy-

ware-as-a-service applications and sis tools struggle initially, as attackers digital identities are particularly vul- | using legitimate credentials can mimic normal user-behaviour patterns.

dentity is the latest battlefield | surface of these platforms provide in cybersecurity, and creden- threat actors with more opportunities identified significant growth in supply to exploit identity weaknesses than "As organisations grow their digital

perimeter they must defend creating

ers," Smilyanets explains. "Many organ

lenges, unable to track all their digita

assets - and as security professionals

often note, you cannot protect what

The volume of exposed credentials has

reached unprecedented levels, with cre-

dential theft per device rising 25% since

2021, according to Recorded Future's

2024 State of Threat Intelligence report.

"Some organisations discovered more

than 100,000 exposed credentials in our

assessment - that makes manual reme

Last year, approximately 77% of

web-application breaches involved

stolen credentials, according to

Investigations report. Traditional

security tools often fail to stop iden-

tity-based attacks because they're

designed to detect anomalies rather

than valid credentials being misused.

diation virtually impossible."

you don't know exists."

Recorded Future's research has also chain credential compromises, where attackers target third-party service providers to gain access to multiple downstream organisations simultane ously. "A single compromised vendo led to data exposure across dozens o enterprise customers in several cases we analysed," says Smilyanets.

Sophisticated cyber attacks

No organisation is immune to thes threats, which can cause tremen dous damage. In February 2025, the GrubHub data breach exposed million f customers' and drivers' identities Attackers claimed to have stolen 70 nillion lines of data, including million of hashed passwords, phone number and email addresses

The intrusion was traced to a third party service provider, which the threa actors used to access the contact infor mation of campus diners, merchant and drivers who had interacted with customer-care services. "The attackers lemonstrated sophisticated targeting by exploiting third-party partnerships and creating a domino effect where a single compromised vendor impacted an entire ecosystem," says Smilvanets.

"Security experts noted the attackers ikely used AI-driven tools to analyse the network for vulnerabilities and automate data exfiltration, enabling them to access and harvest millions of identity records with minimal human intervention.

Recent breaches at Snowflake and Change Healthcare also revealed another new pattern: attackers usin so-called infostealer malware to obtain credentials and bypass protection such as single sign-on (SSO).

Infostealer malware uses a mu ti-stage process that helps to circumvent modern security measures. "Initial infection typically occurs through phishing, malicious advertisements o compromised websites, followed by establishing persistence on infected systems," Smilyanets explains

The malware then harvests creder tials from multiple sources, including web browsers. "What makes infostea ers especially dangerous is their ability to bypass SSO and multi-factor auther tication by capturing authentication tokens and cookies rather than just passwords and stealing browser session data that contains active authen ticated sessions," says Smilvanets.

Modern infostealers, such as Redline Raccoon and Vidar, can even extract complete digital identities rather than just passwords, allowing attackers to fully impersonate legitimate users with all their authentication factors.

Another element that makes mode identity attacks particularly devastating is the criminal infrastructure supporting them. Initial-access brokers specifically sell authenticated access to corporate networks, and ransomware-as-a-ser vice platforms have lowered the techn cal barriers for attacks. Communication channels such as Telegram and Discord also facilitate the trading of compro mised accounts, while forums provide technical support and tutorials for using stolen credentials effectively.

"The criminal underground has evolved into a sophisticated ecosystem for credential trafficking and malware distribution," says Smilvanets. "Specialised marketplaces offer categorised, searchable databases of stolen credentials, while subscription-based services provide continuous access to newly compromised data.

Proactive security

All of these evolving threats demand a shift from reactive, perimeter-based security models to proactive detection of credential exposures before exploitation. Identifying compromised credentials in the early stages, especially i they are legitimate credentials, enables organisations to promptly reset pass vords, implement additional authentication measures or place heightened nonitoring on affected accounts

"This creates a critical time advar tage, allowing security teams to neu tralise the threat while attackers are stil in the reconnaissance and preparatior phases," says Smilyanets. "Early detec tion essentially transforms a high-risk situation with minimal security visibility into a containable event where defenc ers have the upper hand."

Recorded Future's identity intelligence solution leverages advanced AI and machine learning to provide organisations with preemptive detection of corr promised credentials before attackers can weaponise them. "Our platform collects and analyses exposed credentials n near real-time across an unmatched breadth of sources – including dark-web

In today's threat landscape, identity is the primary target



orums paste sites criminal market places and botnet infrastructure – which traditional security tools do not have ccess to," says Smilvanets.

It also creates connections between ompromised identities, threat actors and attack patterns that would be impos ible to detect manually, providing critical ontext about the threat actors involved, eir typical attack patterns and the likely imeline for exploitation. This enables ecurity teams to understand not just hich credentials are exposed, but which nes present the most immediate risk

"We assign risk scores to entities such s IP addresses, using both rule-based and machine-learning systems, which nelps analysts quickly determine which hreats require immediate attention, says Smilvanets. "This scoring mechanism is critical for helping security eams focus on the most critical expo sures rather than drowning in alerts."

An API-driven architecture also enables fully automated security worklows. This means security teams can automatically determine whether exposed credentials belong to their organisation and whether they're still active, identify the specific users affected and initiate password resets without manual intervention. This can reduce remediation time from days to minutes, and help to scale up protecion as credential exposures grow.

Ultimately, Smilvanets concludes Proactive Al-driven identity intellience provides the visibility, context and sponse capabilities needed to address the central role identities play in modern ecurity architectures, making it not just peneficial, but necessary for contempo ary cybersecurity strategies.

In today's threat landscape, iden ty is the primary target. Traditional defences can't keep up, so organisa ons need Al-driven identity intelli gence to gain visibility, prioritise risks nd respond quickly.

Scan the code or visit ecordedfuture.com/ identity-exposure-assessmen to find out more about Recorded Future's Intelligence Graph



BOARDROOM BACXSLIDE

Board-level responsibility for cybersecurity is in sharp decline at UK firms. Only 27% of organisations today have a board member with responsibility for cybersecurity, compared with 38% in 2021. This is worrying, considering the threat of ransomware has doubled over the past year, according to DSIT's Cyber Security Breaches Survey 2025

FIRMS ARE DEPRIORITISING CYBERSECURITY





FEWER ORGANISATIONS IDENTIFIED ATTACKS IN THE PAST 12 MONTHS

Share of organisations that have identified a cybersecurity incident or attack in the 12 months prior to survey date



NEARLY THREE IN FOUR FIRMS HAVE NO DEDICATED CYBERSECURITY ADVOCATES ON THE BOARD Share of organisations with board members or trustees with responsibility for cybersecurity



MOST SENIOR STAKEHOLDERS RECEIVE REGULAR CYBERSECURITY UPDATES, PARTICULARLY AT LARGE BUSINESSES



Frequency with which directors, trustees or other senior managers are updated on cybersecurity actions



WORKFORCE

Ransomware's human costs: sleepless nights, strokes and PTSD

A new report shows that IT teams have been overworked, stressed and even hospitalised in the aftermath of ransomware attacks

According to the reports, ransom-

ware attacks impact everything

from organisational wellbeing to

victims' family lives and mental

and physical health. One person in

the report claims the stress of a ran-

somware attack contributed to a

afterwards. A senior executive.

meanwhile, suffered from "a little

bit of PTSD" every time they

returned to the office and even

people across the business," says

Jason Nurse, the reports' co-author

"There's so much that impacts the

reported feeling suicidal.

Tamlin Magee

The average ransom demand in 2024 was \$3.5m (£2.6m), the average ransom paid, $9.5m (\pounds 7.1m)$, and total ransoms paid throughout the stroke that they suffered shortly vear reaching \$133.5m (£99.7m). according to Comparitech's 2024 end-of-year ransomware report.

But these cyber attacks affect more than a company's bottom line. They also take an emotional and ing with the aftermath.

Two new reports, The Ransom*ware Victim Experience* from RUSI. and a reader in cybersecurity at the a defence think-tank, and an University of Kent. "Psychologicalple quite hard. Often people aren't keen to return to work." Many security professionals said

they have been unable to sleep or eat properly during major attacks and would work extremely long hours to restore operations. Some staff attempting to restore systems were required to work together in small rooms for long stretches of time during the Covid pandemic, exacerbating their feelings of anxiety. One worker was sent to hospital with panic-induced heart palpitations owing to the stress of a ransomware attack.

"The reality is that security teams need to drop everything because the business cannot function unless the problem is addressed," adds Nurse. "There's pressure from other teams and external stakeholders and there is a limited number of people that have to think even using high-pressure sales tacabout how they'll respond. How do we engage? What do we say? How do instance, criminals will cold-call or support services after an incident we tackle this? Often the survival of | targets to discuss the options for | the business comes down to just a few people.'

Response teams often cannot leave work until any disruptions are resolved – they work around the clock, tired and stressed, and the pressure rises the longer the disruption drags on.

Some incident response firms, the researchers found, have developed in-house confidential trauma counselling for clients, and about 20% of victim organisations have used such services. Many individ-

need to drop everything because the business cannot function accompanying academic article for | ly, it's significant. It really hits peo- unless the problem is addressed

lumber of ransomware victims reported on data-leak sites

uals involved found that they | key resiliency practices before an could not return to the office after | incident takes place. the attack and soon moved on to Unsurprisingly, building a strong other roles. security culture helps staff to with-

nally - those who could be the

calm voices in the room in a sea of

understandable panic - were bet-

ting up corporate communication

attacks occurred helped firms to

When dealing with an attack, it is

important to plan ahead for continu-

ity by introducing rota systems in

case the issue is not resolved quickly,

have to work long hours to restor nor-

malcy, small measures, such as

bringing food carts into the room,

way to maintain satisfaction and

The report also found that organi-

sations that provided employees

were able to recover from the attack

more successfully. Promptly engag-

ing with trusted third parties also

Implementing staff support meas-

ures can help to maintain wellbeing

ute to greater workforce resilience,

the report found. A financial servic-

es firm said it sould have prevented

"months and months" f sick leave if

it had offered its core IT staff gar

A long-lasting challenge for secu-

with the rest of the business. All too

often, security or IT teams might

that these security practices are

especially in crisis situations. And

was resolved.

es and recover more quickly.

recover quickly.

Taking advantage of human falli- stand the blows. But 'soft' measbility is an essential skill for any ures can also help businesses cyber attacker. They must not only bounce back from a ransomware trick victims into opening malicious | attack. For instance, organisations code, but also pressure people on with a set of trusted advisors interthe receiving end to pay the ransom. With the advent of ransomware-as-a-service – where core teams develop malware, then affili- ter able to withstand attacks. Setates pay to access and deploy it – criminals can target businesses channels and strategies before more easily than ever before. Competition between cybercrime groups and law enforcement has led to an arms race to create increasingly effective tools and methods.

At the same time, cybercriminals are under pressure to devise new social | the report advises. While staff may engineering techniques to trick their victims and extort them more efficiently once their data is encrypted.

Criminals are increasingly extort- allowing employees to go home for a ing victims twice: first by encrypt- | couple of days before returning or ing their target's data and then by paying for nearby hotels, go a long threatening to dump it in public channels if they are not paid. New wellbeing in the team. groups such as Volcano Demon are tics to extort their victims. For with access to psychological health restoring their data.

"Attackers have had to be more devious in their approaches to get | helped victims to minimise damagpeople to pay, engage and respond," says Nurse. "They try to get under people's skin and into their minds to understand how they can extort among IT workers and also contribpeople, how they can pressure them, how they can touch multiple pressure points to get people to pay." Ransomware attacks work by

exploiting weaknesses in human psychology. No wonder then that dening leave after a cyber incident they take a psychological toll.

Employee wellbeing is rarely a consideration when assessing rity leaders is becoming integrated cybersecurity. Yet RUSI's research found that organisations with comprehensive wellbeing initiatives feel siloed or that they are perceived and high morale were among the as a blocker to business operations. most effective at protecting employ- | This report underscores the fact ees during an attack.

"High company morale made a big essential to business continuity, difference going into an attack," savs Nurse, "Good, strong leader- in those situations, providing ship is also important – thinking | cybersecurity teams with additionabout preparation and things like al support is essential.

Ο

risk. More applications, increased cloud migration and the proliferation of software-as-a-service soluthreat landscape. Meanwhile, securegulations, shrinking budgets and talent shortages.

and security officers are keen to demonstrate the business value that the security function provides, rather than just to convey cybersecurity's role in mitigating risk, achieving compliance standards and helping to win new business. It is against this backdrop that artificial

intelligence (AI) presents a double-edged sword, often representing both a significant threat and a powerful solution. more convincing phishing attempts codes. But Al-powered tools are also

in risk management and compliance. and attack vectors than ever before." uct officer at Vanta. "Al is being used whether through sophisticated phishing attempts or AI-generated attacks.

never had before: dealing with unstructured data. So much of compliance and

physical toll on the people left deal- IT and security teams and other The reality is that security teams

Al is rewriting the rules of risk management

With cyber risks and compliance demands increasing, automation is quickly becoming the smartest way for businesses to stay secure, agile and ahead of the curve

ganisations today face security revolves around documents inprecedented challenges when it comes to managing tions have dramatically expanded the

At the same time, chief information being viewed as a cost centre. They want

Cybercriminals are using AI to create

providing unprecedented capabilities "We're seeing more vulnerabilities

"But Al also gives us a capability we

and screenshots, and now we have an entirely new way to understand and ovide value '

The automation advantage

Vanta's most recent The State of Trust Report reveals a striking insight: 77% rity teams are struggling with strict of IT decision-makers believe automation can relieve the manual burden of compliance, saving them time and money. Yet only 60% of business lead ers agree. This gap likely stems from a fundamental misunderstanding o the manual burden faced by security teams, says Epling.

"It boils down to who feels the pain every day. Business leaders are looking at the numbers and the ROI and driv ing the business, but they're not living n these tools every day and build ing a deep appreciation for how many hours get sucked into these reviews he explains. "Governance, risk and compliance has been underserved and generate more complex attack for a long time in terms of providing a high level of innovation and helping to drive efficiencies."

Businesses are spending more time than ever before on compliance. Ir the UK, companies already dedicate explains Jeremy Epling, chief prod- 12 working weeks per year to keeping operations compliant. Security teams by attackers to create new threats, in particular often dedicate far more time to compliance than to other va ue-adding activities, such as cyber strategy and threat mitigation.

Here, intelligent automation offers multiple operational benefits. "Al car

Intelligent automation enables security teams to be seen as strategic business enablers rather than cost centres

> help generate secure code, automate remediation processes and provide a single pane of glass for your entire security programme," Epling says.

For example. Al can automatically respond to complex security auestionnaires and analyse vendor documents. identifying risks and providing actionable insights. It can also ensure consistency around security policies, as Al can detect irregularities across multiple policy documents. Automated systems can also immediately identify documentation issues, which can help prevent last-minute audit complications.

"Instead of spending hours manually reviewing documents and copy-pasting

esponses, Al can take a first pass or these tasks," says Epling

Turning compliance into a business benefit

Perhaps most importantly, intelligent automation enables security teams to be seen as strategic business enablers rather than cost centres. "When you achieve compliance standards, you can unlock new markets and win additiona business," Epling says.

He continues: "Automation helps us clearly show time savings and mprovements in efficiency. For exam ple, when teams use Vanta's auto mated workflows, we can quantify how much faster they're completing tasks compared to before. That makes it easy for security leaders to go back o their management and explain the tool's value.

But it's not just security teams that benefit from automation tools, he explains; these systems can also help engineering and IT teams to work nore efficiently. "Since they're not ir the security trenches every day, giving hem focused, actionable remediation guidance, along with context about why matters, helps them prioritise effect tively," Epling says

And with Vanta's tools, such as auto nated questionnaires, customers are constantly providing feedback to help the firm improve its programmes.

"It's a way to turn security from cost centre into a growth enabler says Epling. "When you can show how your trust posture helps close deals faster or opens new opportunities, it becomes a clear business-value driver. And it bridges the gap between secu rity teams and leadership, so they're finally speaking the same language."

First steps to intelligent automation For organisations considering intell gent automation, Epling offers son practical guidance.

The first step is to start small - focu on specific areas such as supplier risk or questionnaire management. Then trial A ools with existing documents and policies, and make sure the Al solutions provide clear citations and explanations.

Epling also advises organisations to onsider comprehensive platforms hat offer a holistic view of governance isk and compliance

"For startups and small businesses, here are tools designed to help you get your first certification," says Epling. "You don't need prior knowledge - the right platform will guide you step by step.

The future of risk management

As cyber threats become more sophis icated and the compliance burdens ncrease, intelligent automation isn't ust a `nice-to-have' - it's becoming a necessity.

Such automation marks a transform ative approach to risk management. By mbracing Al-powered tools, organisa tions can not only mitigate risks more ffectively but also turn compliance into a strategic business advantage.

"The goal is to spend less time on aperwork and more time on deep, npactful security work that truly pro ects your organisation," says Epling.

As cyber threats continue to evolve he message is clear: intelligent autonation isn't just a technologica upgrade - it's a critical component of our security strategy

For more information please visit vanta.com

believe automation can relieve the manual

Q&A

Why digital identity needs a new baseline

As identity threats grow more sophisticated, trust is no longer a one-off check - it must be verified continuously and intelligently, says Adam Preis, director of product-solution marketing at Ping Identity

dentity, trust was a starting verified your credentials and got on with your journey. But in today's rapidly evolving threat landscape, where Al-generated deepfakes, identity fraud and third-party breaches are growing exponentially, trust must be earned continuously

Adam Preis, director of product-solution marketing at Ping Identity, reveals how digital trust is evolving, and what it takes to build meaningful, secure digital relationships with cusomers, partners or Al agents.

formed dramatically over th past two decades

Initially, identity and access management (IAM) was simply about allowing that frustrates users. In fact, complex the workforce to log into systems and applications. But around 12 years ago, the introduction of identity federation standards revolutionised access apps, web platforms, call centres by enabling logins through thirdparty identity providers, such as Google and Facebook.

Put simply, users no longer needed to create store and use unique credentials for each application. This shift and clear data-privacy controls, are enabled more seamless and secure access, paving the way for frictionless digital experiences and expanding the role of identity in consumer-facing applications

How do you define `verified trust' in today's digital landscape and why does it matter?

Verified trust has shifted from a `trust then verify' approach to a verify first, then trust' model

With the emergence of sophisticated attack vectors - including fraud, deepfake content and Al-powered impersonation - organisations must be able to verify a user's identity with greater certainty, especially as risk levels fluctuate across the user journey. These evolving threats make fraud detection, response and prevention significantly more challenging

In the age of AL verification should nologies that can detect, respond to

ernment digital identity schemes, point: you logged in once, bank ID systems or decentralised verified-credentia wallet-based schemes - and implementing robust iveness detection. This means not only verifying credentials at onboardng but also continuously assessing risk signals throughout the user jour ney and introducing step-up identity verification when needed.

> Today, identity is quickly becom ing the security perimeter, whether you're a worker logging into secure corporate systems or a consumer accessing sensitive services such as banking or healthcare.

What role does identity play in Q customer retention and churn? IAM directly impacts customer experience because poor verification processes create friction onboarding, multiple login requirements and inconsistent authentication across channels, such as mobile and hybrid physical-digital touchpoints, can drive customers away. Businesses that can create smooth secure and flexible identity experiences, with options for verification nore likely to retain customers.

How do Al-generated deepfakes challenge traditional IAM strategies?

I-generated deepfakes have dramatically increased the sophistication and prevalence of identity fraud. Malicious actors can now create highly convincing fake identities, voices and even entire video-conferences. A notable example is a Hong Kong case where criminals used deep fake technology to convince executives to transfer \$25m by impersonating company leadership

Again, this means that traditiona IAM strategies that rely on static credentials or simple multi-factor authentication are no longer sufficient. Organisations must instead consider advanced verification techinvolve matching identities against | and prevent Al-generated fakes, using |

the early days of digital | trusted `anchors' - such as gov- | a myriad of first- and third-party risl signals in real time across the entire iser journey

How should organisations Q approach the rise of Al agents with digital identities?

Organisations must treat A agents as entities with dis tinct identities that act on behalf c users, requiring clear, user-granted authorisation to access specific identity attributes and personal data r narrowly defined tasks within a nited timeframe.

This should include giving A agents specific, time-limited access to defined data sets, implement ing granular authorisation controls securing API access for AI interac tions and continuously monitoring and verifying Al-agent activities.

Customers should also have con trol, such as granting an Al agen access to only a limited portion of their profile for a specific task, for a period of time. As an example, iden tity-enabled AI agents in consume banking will allow these agents to perform specific tasks, such as finding better mortgage rates or recom mending savings products, all while respecting the customer's defined permission

More than anything, you should create a framework that enables Al agents to operate effectively while maintaining robust security and priacv control

O How can businesses introduce verification without adding friction? he key is to understand that A poorly designed identity experiences can drive customers away

Verified trust has shifted from a 'trust then verify' approach to a `verify first, then trust' model

Businesses that recognise this are | personal details. This provides them the ones successfully finding the right with greater control over how they balance – it's not about removing all riction but using it wisely and only where it adds value or trust.

Strategies such as introducing delegated authorisation and policy-based this balance. For example, if I want to give my daughter access to my current account but limit her to a certain spending amount, I should be able to do that securely and seamlessly.

This concept can be extended to more complex scenarios, such as er-of-attorney arrangement in applies to, for instance, mortgage or insurance processes, enabling seamless identity delegation between customers, brokers and providers without requiring users to navigate cumbersome verification steps.

• What's next for digital trust - are we moving towards a trust-as-a-service model?

We're seeing the early signs of a shift in that direction. A lot of organisations, particularly in the inancial sector, are starting to realise hat their trust and identity-verification capabilities can be monetised.

Some banks in Europe are exploring decentralised identity, particularly vallet-based technologies. These systems enable users to hold verified credentials on their devices, proving their identity during transactions without relying on a centralised database. With a trust anchor in place. users can, for example, confirm their age or address, without revealing

share and revoke access to their credentials while reducing the risk of data breaches and fraud.

In this emerging model, banks and other trusted institutions can funcaccess control are helping to redefine tion as trust anchors. That means they can both verify a person's identity and offer those verification services to third parties. This enables new systems that deliver verification-as-a-service. Regulatory momentum is accelerating this trend. In Europe, new reg-

ulations such as eIDAS 2.0 and the delegating authority through a pow- European Digital Identity Wallet will soon come into force. By November healthcare or legal contexts. It also 2027, businesses must be able to accept the digital wallet for customer identification and authentication.

This is going to be a huge push towards decentralised identity and will likely open the door for trustas-a-service models. Over the next ree years, as both the public and private sectors align on this vision, we will see a shift towards more secure seamless experiences. Verified trust will play a central role in safeguarding consumer, workforce and third-party identities, driving more secure and frictionless interactions across al digital touchpoints

For more information please visit pingidentity.com

Tamlin Magee

ith sweeping tariffs causing | against Americans", alleged that it economic chaos and com- censored "election information bative rhetoric flowing and called the former director. from the White House, the Trump Chris Krebs, a "significant bad-faith administration is disrupting busiactor who weaponised and abused ness-as-usual at home and abroad. his government authority". The administraion also revoked Cybersecurity operations have not been immune to the turbusecurity clearances for Sentinelone lence. In March, Pete Hegseth, the a private sector cybersecurity ven-US defence secretary, reportedly dor. The company had appointed ordered a pause to offensive cyber Krebs as chief intelligence and puboperations against Russia. The Penlic policy officer shortly after he was tagon denies this claim. fired by the US president for contra-Meanwhile, Timothy Haugh, head dicting his false claims of voter of US Cyber Command (the military fraud in the 2020 US election)

command in charge of cyber operations) and chief of the US' signals intelligence agency, the NSA, was dismissed in early April along with his deputy. And the government efficiency department, led by Elon Musk, is taking aim at the US cybersecurity and infrastructure security agency (Cisa), threatening to axe nearly half of its staff. Cisa, which sits within the US oversees cybersecurity and infrastructure protection across the govdinating proactive responses.

GLOBAL THREATS

Trump's cybersecurity cuts put US allies on guard

Global cybersecurity efforts risk being undermined as the US government enacts sweeping cuts and leadership shake-ups at its top cyber agencies

This politicisation of cybersecuri ty in the US could prevent Washing ton and its allies from sharing essential security information and limit their abilities to comba emerging threats, according to Laura Houston, a partner at Slaugh ter and May, a law firm

"Three months into Trump's sec ond term, it's increasingly clear that cybersecurity is not a priority department of homeland security, for the administration," she says. They aren't denying the prevalance of threats, and they have ernment. It is responsible for extended the long-standing nationevaluating cyber threats and coor- al emergency declaration concerning cyber risk. But there are still no In an April memorandum, the Senate-confirmed cybersecurity Trump administration accused Cisa | leaders in the Pentagon, the head of of leading "government censorship US Cyber Command has just been

fired and Cisa's workforce is being significantly reduced.'

According to reports, Cisa plans to remove 1,300 employees from its payroll, motivated by the push for greater efficiency in the federal government. Plus, the Trump adminis tration has proposed cutting \$491m (£368m) of funding for the agency in the 2026 budget.

Brandon Wales is the former act ing director of Cisa and now works at Sentinelone. He says that how such cuts could impact Cisa's work is unclear. But, if the numbers are anything close to those appearing in the press, the reductions in headcount or funding could hamper the agency's ability to support federal. state and private sector organisations through cyber incidents.

Most concerning, according t Wales, is what the cuts could mean for Washington's capacity to share cvbersecurity information. "A lot of information on threats and best practices is critical to the way we collectively defend the country."

However, Wales admits that the man nominated to replace Krebs at Cisa, Sean Plankey, appears to be up to the task. He has plenty of real-world experience. having served as direc tor for cyber policy in the first Trump administration.

Wales adds that despite the "policy turmoil", collaboration between inter national law enforcement organisations, such as the FBI, Europol, the Secret Service and Interpol, will remain strong. "That work is continuing and that's good because those relationships should be deeply institutionalised, so that no matter what else is happening, the important collaboration will con-

But others further from the US halls of power take a dimmer view. According to Matthew Hodgson, the CEO and co-founder of Element, a privacy company, the gutting of Cisa will "obviously compromise the US' ability to defend itself".

He believes that the administra tion's "attack" on US cybersecurity services undermine their dependa bility. "Concerns were raised last vear about Cosy Bear [a Russian threat group] and other attacks on critical infrastructure. It really shifts the onus to individual countries to protect their own infrastruc ture and services," he says.

These moves by the US will push the rest of the world to ensure their own security, rather than depend ing on American tech services. Hodgson explains. Already, European nations are working to develop their own digitally sovereign tech stacks.

Although the US defence depart ment denies reports that it has ceased offensive cyber operations against Russia, the news nonetheess rattled some figures in the European cybersecurity sphere.

Tom Vazdar, a cybersecurity pro fessor at the Open Institute of Technology and former security adviser at Europol, says that if the reports re accurate, they could signal a significant policy shift, where old alliances disintegrate and new ones are reated. He suggests the cyber diplomacy at play with Russia could sher in a reformulation of such alliances, redirecting the US' offen sive capabilities towards China.

But a US withdrawal from engage ment with Russia would "really educe critical intelligence shar ng," says Vazdar.

Nato and European nations fear ncreased cyber aggression from Russia. This could prompt Europe to independently develop more robust offensive cyber capabilities,' he explains. "It's obvious that the days of the US leading the free world are gone.

By repeatedly failing to condemn Russian cyber aggression. Vazdar says, the US has "undermined all international norms against cyber attacks" while simultaneously "diluting deterrent strategies" - something he believes adversaries including China, Iran and North Korea may notice. "They may interpret the shift in US policy as a green light for increased cyber activity," he says.

Cooperation among international security agencies has been essential for taking down key figures in notorious ransomware gangs, ncluding Conti, Lockbit and Phobos. If the US government limits its ntelligence-sharing, or weakens its threat detection or international coordination, other countries will also become more vulnerable to such threats. "If you don't have active personnel working 24/7 on monitoring what adversaries are doing, then it's going to be really tough to rebuild everything from scratch," Vazdar says.

The Trump administration's handling of US cybersecurity therefore is not just a domestic matter. Any major recalibration of America's cybersecurity priorities poses risks for the rest of the world too.

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