Bill Wilson, co-founder of Alcoholics Anonymous, takes his last drink and enters treatment for the last time.



World War II: Poland declares war on the Empire of Japan.

World War II: The Imperial Japanese Navy suffers its first loss of surface vessels during the Battle of Wake Island.

The United Nations International Children's Emergency Fund (UNICEF) is established.

Flawless phishes, monetisation and intelligence: What's ahead for cybersecurity in 2019?



The World **Economic Forum** recently placed cybersecurity as the fifth biggest global risk for doing business



BRIAN PINNOCK

That lies ahead for als regarding cybersecurity in certifications (green lock), and 2019? Will we see the EU govern- credential-harvesting sites will ment forcing US data centers to increase. Flawless phishes will hand over data? Will the Euro- continue to prey on the gap in pean Union issue its first major human firewalls, pivoting interfines for organisations in con- nally around organisations and travention of its General Data intensifying efforts to better Protection Regulation? Will our educate all staff. Cybersecurity growing dependence on social awareness training, which ac- hackers have made off with media expose us to unwanted cording to a global Mimecast sensitive data for hundreds of risks as our accounts become and Vanson Bourne study is millions of user accounts. Just

the fifth biggest global risk for as organisations bolster the ca- 500 million guests - one of data presented, which means monitors. doing business, with 19 coun- pabilities of their first line of the largest breaches in history. they won't actually have any tries ranking it as their number defence: their employees. one concern, including 14 in Europe and North America, as shift focus to weaker countries and sophistication, many are Artificial intelligence and phones and wearables will bewell as Japan, India, Indone- and industry verticals that lag now acquiring capabilities that machine learning will play a come a major security issue as sia, Singapore and the UAE. As in their adoption of more ad- were once the sole reserve of more prominent role as the hackers discover ways to see live the political climate around the vanced cyber defences. More nation states. We're likely to velocity and variety of attacks audio and video of unsuspecting world continues to create vola- industrialised countries are in- see these cybercriminals use makes conventional approach- people's lives. The fallout of such tility, growing numbers of convesting heavily in cybersecurity, stolen credentials from the es - such as blacklists - out- an incident being exposed could nected global citizens will turn making them less attractive to past few years' data breaches dated and ill-equipped to deal drastically erode trust in techto the Internet to have their cybercriminals. Companies in to compromise the security of with modern cyber threats. nology and make people treat message heard. The growth in particularly the Middle East even the most secure organi- The average phishing site, for technology with greater caution connected devices- from con- and Africa often assume their sations. Even companies with example, is only online for a as they realise the devices they sumer wearables to industri- security is sufficient without good cyber protection have lit- few hours. With such a crowd- have enjoyed without concern, al IoT to medical devices - is realising that the threat land- tle protection against the reuse ed domain space, attackers carry immense risk to their percompounding the security chal-scape is drastically shifting. of passwords that have been have to be clever about the sonal privacy and security. lenge as each device represents This makes them easy targets collected in other breaches. a potential cybersecurity risk. for cybercriminals who tend to

some of the key developments ance. Attackers will also contine ecosystems of fraud. Stolen teristics, which machine learning is that email continues to be we expect to see on the cyber- ue to shift their attention away personal health information, ing algorithms can exploit and the most common - and least security front in 2019.

More effective, not different, cyberattack types

Throughout 2019, the most insidious development won't

ter social engineering, more advanced phishing attacks, increases in credential stuffing attacks, and more complicated malware with multiple stages and different form factors for transmission, will make threats incredibly tricky to detect.

Phishing techniques like the companies, govern- use of homoglyphs, elongatments and individu- ed URLs, the use of legitimate only continuously conducted recently, Marriott announced for 'threat intelligence'. Unfor- es, hackers could directly target The World Economic Forum by 11% of global organisations, that its Starwood database tunately, the vast majority still an individual and interfere with recently placed cybersecurity as will receive renewed attention was hacked for approximately won't take any action from the their pacemakers or heartrate

Monetisation of data breaches

those delivered via email. Bet- Facebook, eBay to JPMorgan, becoming a trickle-down eco- to humans, and very hard for

Cybercriminals will also shift focus to weaker countries and industry verticals that lag in their adoption of more advanced cyber defences.

With global cybercrime organ- intelligence -only an interest- concern: consumer connected Cybercriminals will also isations' growing in maturity ing storyline.

> Hackers could use this infortrained AI. mation to obtain prescriptions

layers of fraud and criminality tomers. built into its very fabric.

Intelligence becomes 'intelligent'

domains they register and ex-The evolution of cyberat- ploit, Luckily, these domains scape keeps changing what Here, we take a global look at follow the path of least resist- tacks has also created entire generally have certain charac- seems to be the common thread from larger organisations to for example, could be used to detect, while other properties protected - attack vector. We small and medium businesses. gain insight to patients' ail- of attack vectors can also be can't predict exactly what 2019 ments and likely treatments. recognised by appropriately threats will look like, but we can

for strictly controlled medi- break-ins, spam, phishing and be the preferred entry point for There have been several cation that is then traded or more. Although it will most- criminals to deliver threats to be new attack types but rath- highly successful high-profile sold illegally. It's no longer just ly work well, look out for the your organisation. er improved execution of ex- data breaches over the past about a straightforward cy- occasional mistake: these will isting attack types, especially few years. From Equifax to berattack: cybercrime is fast be utterly incomprehensible

nomic system with multiple vendors to explain to their cus-

From financial gain to life-and-death

As our world becomes increas-Organisations will realise ingly digitised and connected the importance of threat in- devices continue to permeate telligence and will talk about every aspect of our daily lives, the need for an intelligence the risks posed by cybercrimifunction. What they really nals are escalating. A large-scale mean is that they want some attack on critical infrastructure insight from their vendors such as energy services, water around the huge amounts of supplies or even hospitals could threat data they're acquir- cause massive damage and even ing. There may be a handful loss of life. Autonomous vehiorganisations who will stop cles, although not prevalent on recasting threat data as intel- our shores yet, are attractive tarligence and instead focus on gets for the more ruthless type generating actionable insights of cybercriminal. And with the from this data, the prerequisite growth in digital medical devic-

Privacy will also become a key devices such as cameras, micro-

Even though the threat landpredict that while email remains AI will also be used to detect vulnerable it will continue to

> (Brian Pinnock is a cybersecurity specialist at Mimecast.)





emocrats can't find a Smocking Gun tying the Trump campaign to Russia after James Comey's testimony. No Smocking Gun...No Collusion." @FoxNews That's because there was NO COLLUSION. So now the Dems go to a simple private transaction, wrongly call it a campaign contribution,...

@realDonaldTrump



ove, kindness, com-Lpassion and tolerance are qualities common to all the great religions, and whether or not we follow any particular religious tradition, the benefits of love and kindness are obvious to anyone.

@DalaiLama

03



Dr. Urjit Patel is a thorough professional with impeccable integrity. He has been in the Reserve Bank of India for about 6 years as Deputy Governor and Governor. He leaves behind a great legacy. We will miss him immensely.

@narendramodi



I have deleted the photo of my lunch in Goa as it was in poor taste. I do wish however to again highlight the absolute hypocrisy of the BJP in the matter of beef, and to reiterate my own belief that humans must have the right to eat, dress, and fall in love as they choose.

@Ram_Guha

Disclaimer: (Views expressed by columnists are personal and need not necessarily reflect our editorial stances)