GETTING AHEAD OF FUTURE ATTACKS

AJ Thompson, CCO, Northdoor says that the UK public sector needs to look to third party IT consultants to help secure supply chains

igital Hoalth and Care Wales (DHCW) has predicted that, due to increasing global conflict, on increase in eybor-attacks is inevitable. The public health department sold that threat actors wor't be looking to just actort money, but will be looking to couse durings by bringing down systams:

The statement follows a recent misconware offices on several major Landon hespitals. King's College Hospital, Goy's and St Thomes', including the Reyal Brompton and Evalual Landon Children's Hospital and other primary core services were all affected. OP services across the Baday, Orsenwich, Lewisham, Bramley, Southwork and Lamboth berughs were also impacted by the ottacle.

The cybor-attack applied to hospitule partisoned with third party pathology service provider, Symnevis. The cybor incident had a significant impact on the delivery of services, including blood transfusions and test results. It also led to procedures being concelled or redirected to other NHS hospituls.

Ransomware-as-a-service

The ottack is thought be part of a ransonware-as-a-service (RouS) compaign, where attaclars bought information on the dark web around vulnerable suppliers, which if attacked, could affect entition national infrestructure in the health service. The ottack service itself was provided by a Bussian-bassed company called Offin. The threat actors told the BBC via an anarcyptod mossoging platform, that it targeted

Synnovis as a way to punish the UK for not doing more to help in an unspecified war.

RooS is a cybor-crimo business model in which a runseamoure group solls its code or malware to other hadens, who then use it to carry out their own attacles. It is a particularly dangerous, if not highly successful business model as it lowers the ber for entry into other-crime. Threat actors with sparse technical knowledge can carry out other-attacles without having to develop their own malware. Deresanware developers can also increase their profits by packaging their tools and services to sell to hadens without having to manually ottack services the sell to hadens.

The cost of a breach

Hoothbourn services on generally tergeted due to their integral function to society, the sensitive deter their systems hold and their increase in fell adoption. BMS 2023 Cost of a Data Broach report has highlighted the increasing cost for arganisations that suffer a data broach in the soctur. The report found that the overage cost of a data broach is now at \$10.95m. This represents on increase of \$3.3% since the 2020 report. In fact, healthours has had the highest overage cost of a broach for \$2 years.

This is some way above the overage cost of a data broach across oil sectors, which sits at 54.45m and highlights how impactful broaches on healthcare organisations are. Healthcare is top of the everage cost for a broach when compared to other verticals – and by some morpin. The next on the list is the financial sector at 55.90m, followed by phomoscuticals at \$4.82m. There are a number of recisors for the huge difference in the cost. The sector is highly regulated, which increases the cost and is considered by most governments as

The nature of the date held by healthcare organisations means that it is an incredibly tempting target for criminate. In the US, March 2024 set a new record for healthcare broadhes according to the HEMA Journal, 93 treaches of 500 or more records were reported to the Department of Health and Human Services (HES) Office for CArli Rights (ICCR). This is a 60% increase from fathrary 2024 and a 45% increase year—year from March 2023. This marked the highest number of broaches reported in a single month before the COVID-19 lackdown in 2020.

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THREAT ACTORS WITH SPARSE TECHNICAL KNOWLEDGE CAN CARRY OUT CYBER-ATTACKS WITHOUT HAVING TO DEVELOP THEIR OWN MALWARE. 515

It's clear that the sector is in the sights of cyber-criminals. The nature and peneired value of the date, as well as some of the valuorabilities that the sector experiences (porticularly third party supply chain attacks), means that healthcare organisations have to do more to confect themselves.

Phishing and stolen or compromised credentials

The IBM report also found that phishing and stolen or compremised credentials were the two most common initial attack vectors across all verticols. We have seen cyber-criminals use increasingly sophisticated phishing attacks to target employees, who are often considered the "wealest link" in the security defences of a company. This is reflected in the report, with phishing attacks respensible for 16% of broaches and stoken -

or compromised credentials responsible for 15%.

These were followed by cloud misconfiguration at 11%, followed by business email compromised at 9%. The public sector, therefore, has to ensure that the weakest link in their defences is strengthened considerably. The nature of the most recent phishing attacks means that employees have little chance of being to filter out legitimate messages and malicious amails and need help in doing so. This is important in healthcare where downtime can have a huge impact on frontline services.

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SUPPLY CHAIN ATTACKS ARE WITHOUT A DOUBT A BUSINESS-CRITICAL ISSUE, ESPECIALLY WHEN PATIENTS ARE BEING PUT AT RISK. 5151

2024 trends

IBM's X-Force Threat Intelligence Index 2024 has found that the use of stolen credentials to access valid accounts surged by 71% over the previous year and represented 30% of all incidents responded to in 2023, tied with phishing as the top infection vectors. The report also found three major trends that CISOs needs to be aware of. Firstly, there has been a sharp increase in abuse of valid accounts, with a focus on legging-in rather than hacking-in. This highlights the ease of obtaining valid credentials as appased to exploiting vulnerabilities or staging phishing campaigns.

The timing and shape of the impact of GenAl on cybersecurity has also been cited in the report. With the public sector and other organisations under pressure to adopt Al, the rush to implement. it is overtaking the ability to fully understand the cybersecurity risks. Once AI adoption is widespread, the public sector will need to prioritise security defences that can adopt to AI cybersecurity threats.

Third party IT consultants can help

The level of damage associated with supply chain attacks on critical infrastructure and healthcare services has never been higher. Supply chain attacks are difficult to detect, especially in large organisations that have many partners and suppliers. Public sector organisations and their partners and suppliers need to understand that just because defence systems were previously validated, doesn't necessarily mean they are secure new. With the public sector also facing restraints and cuts, rigorously assessing partners and suppliers may not be something that can be undertaken in-house.

Supply chain attacks are without a doubt a business-critical issue, especially when patients are being put at risk. With internal teams unable to cope with the workload they have, the public sector needs to turn to qualified, third party IT consultants who can supplement internal teams. Third party IT consultants can provide



a 360-degroe, 24/7 everview of the supply chain, giving a comprehensive view of where vulnerabilities lie. This allows public sector organisations to have urgent conversations with partners and suppliers to shut the vulnerabilities before they are exploited by cyber-criminale.

RaaS-based and other supply chain attacks are extremely lucrative and therefore are not going to go away any time soon. Getting ahead of any future attacks using threat intelligence will be crucial for the public sector. Effective prevention, dotaction and response technologies implemented by third party IT consultants will enable the public sector to proactively defend against an attack.



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