

Re-enforce digital security

Develop the integrated security to reduce risks

KPMG Smart Government Catalyse digital progress

Executive Summary



People and data are no longer confined to physical, specific places. We're working in more agile ways using remote systems to store personally identifiable information. In this modern world without perimeters, cybersecurity becomes a more complex issue.

Lack of perimeters leaves cyber vulnerabilities

The recent ransomware attack on one of the UK Government's widely used outsourcer by Black Basta has shown the devastation that can be caused without the right security measures in place. This attack is currently estimated to cost the outsourcer £15-£20M and that figure will continue to rise. It's not just the attack on the outsourcer though, it's the impact this will cause on people's personal lives with the data that will be exposed and made public.

Protecting data, networks, workloads, and user identities as users interact in cloud, mobile, on premise, and remote environments is no small feat. Zero-trust is a powerful framework to bolster government cybersecurity and equip government department leadership to manage risk in a more efficient and effective way. Had this been in place Black Basta would not have been able to achieve the level of intrusion witnessed.

It's time to rethink cybersecurity for digital, no-boundary environments

A zero-trust framework shifts any cybersecurity defence focus from network-based, static perimeters to protect users, assets, and resources. Government organisations are simply not keeping up with modern security demands — The WannaCry ransomware attack on the NHS in 2017 costed the UK economy over £10 million in one day. The most important detail? Zero-trust helps governments maintain public trust.

Four components of our zerotrust framework:

Strong identity management with authentication and user rights to help ensure access only to authorised people

A mobile device/workload management strategy that includes application programming, interface security, frequent security updates and a workforce device inventory



A software-defined perimeter service

Data security measures encompassing a wide range of technologies and software, including data loss prevention tools and processes, file integrity monitoring, and encryption

¹ "Will Rishi Sunak reassess UK cybersecurity policies?" Open Access Government, November 21, 2022 ²Black Basta ransomware attack to cost Capita over £15m* ComputerWeekly.com, 10th May 2023

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Zero-trust is a multi-step process you may have already started.

With so many systems, processes, data and people to secure, complete threat mitigation is a fine art and a science. Creating a digital experience for customers that is secure means investing in a multi-step, ongoing zerotrust framework. You might be on the journey towards strong security, but there will always be new risks to consider.



Breaking down the numbers in the UK



Almost 50,000

UK government ministers and civil servants were vulnerable to cyberattacks until March 2020¹.



£10 million,

in one day was the cost of the WannaCry ransomware attack on the NHS in 2017 to the UK economy.



85.5 percent

of respondents among 300 UK public sector organisations surveyed in 2020, said they would "prefer a multi-cloud vendor.

¹ "Global number of cyber security incidents in 2020. sorted by victim industry and organisation size," Statista, 2021.

- ² "IOTW: Almost 50,000 UK government ministers vulnerable to cyber attacks", Olivia Powell, Cyber security hub, 2023.
- ³ "Will Rishi Sunak reassess UK cybersecurity policies?" Open Access Government, November 21, 2022.
- ⁴ "State of Cloud Adoption survey 2020" UK Cloud. 2020.

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Document Classification: KPMG Public