

# Re **think** Security in the era of AI

Maximise the opportunity.  
Minimise the risk.



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## Security in the era of AI

### Maximising the AI opportunity while minimising the risk.

The speed of progress of AI is breathtaking. Quantum computing and GPTs (Generative Pre-trained Transformers) are turbo-charging digital transformation. The technologies have huge potential in cybersecurity and are fast becoming essential tools for all security professionals.

But AI and generative AI also create new risks. A recent [World Economic forum report](#) cites that 87% of respondents identified AI-related vulnerabilities as the fastest-growing cyber risk over the course of 2025.

AI is also becoming an essential tool for cyber criminals and the threat is heightened by geopolitical instability and a global skills shortage.

This whitepaper looks at the challenge of how to enable your organisation to maximise the transformative opportunities AI offers, while minimising the risks it creates. We explore how innovative CISO's and CIO's are embracing the technology, while safeguarding their workplaces, connectivity, and cloud infrastructure.

A key consideration is whether you have the security skills inhouse to operate safely. By outsourcing the expertise, your defence posture shifts from reactive to proactive. Intelligent, always-on, managed security services use cutting-edge AI to stay ahead of the attackers. IT leaders can liberate internal teams to innovate with the emerging technologies, confident the organisation is protected.



# AI is reshaping cyber security

AI is reshaping cybersecurity, both as tools for defenders and as weapons for attackers.

## AI on the attack

While there is talk of hackers creating FraudGPTs and WormGPTs, the most eye-catching new risk created by generative AI is social engineering. Generative AI models, like those used in chatbots or text generators, can create highly convincing phishing emails, tailored social media posts, or even deepfakes to trick victims.

Generative AI may also help attackers create Zero Day ransomware for which there is no known patch. More innocently, generative AI also creates the risk of employees leaking sensitive data while using public GPTs.

AI helps hackers create polymorphic malware that constantly changes its signature, making it much harder for traditional security tools to detect. AI can also be used for automated attack generation which targets vulnerabilities at a far greater scale than human attackers could manage.



## AI to the defence

Taking these threats into account, experts don't see AI creating completely new attack methods, and the technology is already being used to defend against existing threats. AI can analyse massive datasets of network activity, learning normal behaviour patterns and flagging anomalies that could indicate attacks. Generative AI further enhances this by creating more sophisticated models, better at mimicking normal activity for comparison. AI models can sift through historical threat data and ongoing network behaviour to identify patterns and predict potential future attacks. This helps cybersecurity teams proactively secure vulnerabilities. AI also helps analyse malware code, automatically identifying similarities, variants, and potential origins.

AI scans systems and codebases, hunting for potential vulnerabilities, and generative AI can take this further by helping to predict and design potential exploits, even for Zero Day vulnerabilities. AI can be used to automate certain security responses, such as isolating infected machines or blocking suspicious traffic. This speeds up reaction times and helps to contain attacks early.

According to the [World Economic Forum Global Cybersecurity Outlook Survey](#), 47% of organisations cited their top concern surrounding GenAI is the advance of adversarial capabilities, cybercriminals are harnessing the efficiency of AI to automate and personalise deceptive communications.

We, however, believe this pessimism is unfounded. Security experts have more access to quantum computing and data to train AI to defend, than cybercriminals have to train AI to attack.

If CIO's and CISO's harness the right expertise they tip the balance in their favour.

**52% of CIOs believe  
generative and agentic AI  
will disrupt their business  
models within the next  
two years.**

[Logicalis CIO Report, 2026](#)



## Securing the workplace in the era of AI

The big risks in the workplace are identity security and device security. Generative AI can be used to create realistic deepfakes or manipulate text to impersonate real people which trick employees into revealing sensitive access information.

AI, however, can counter intrusions by learning user patterns and flagging irregular access attempts. It is also essential to educate employees on the new risks from generative AI to help them identify and avoid social engineering attacks.

CIOs are increasingly being asked to govern behaviour, automation and decision-making processes that operate with a degree of autonomy. The Logicalis Global CIO Report 2026 highlights ongoing issues with cybersecurity, such as skill shortages (30%) and insufficient staff awareness (32%), both intensified by AI. As systems get more complex, human error becomes riskier.

Training is lagging: 66% of CIOs say their organisations lack adequate education on responsible AI use and risks, and 57% believe employees are jeopardising data security with AI tools.

**77% of organisations experienced a cybersecurity incident in the past year, with malware and ransomware accounting for 33% of these breaches.**

[Logicalis CIO Report, 2026](#)



## Securing connectivity in the era of AI

Networks need to support the growth of IOT, 5G, and edge computing. But the expanding attack surface presents more opportunities for cybercriminals.

Edge devices typically have less processing power and security features to cloud servers, which makes them more vulnerable. Processing data at the edge also creates risk.

AI can be used to secure networks and connectivity by analysing data streams at the edge in real time. It can identify unusual patterns that indicate malware, intrusions, and denial of service (DoS) attacks quicker than sending the data to the cloud for analysis.

It is essential, however, to implement robust security measures during the development of AI models for edge devices. This includes hardening the models against manipulation and poisoning attacks.



I see new threats in 5G,  
given there's going to be  
more data at the edge.

Paul Kurtz, Chief Cybersecurity Advisor, Splunk



## Securing hybrid cloud in the era of AI

Securing a hybrid cloud environment is a complex operation. Often you will have different suppliers using different configurations and languages. According to [Fortinet's Cloud Security Report 2025](#), data security and privacy emerges as the top concern, identified by 63% of respondents, reflecting ongoing fears about protecting sensitive information and preventing leaks.

AI has a big part to play but it is not infallible. It can analyse vast amounts of data across hybrid clouds, identifying anomalies and breaches faster than traditional methods. AI can also automate repetitive tasks like vulnerability scanning, log analysis, and incident response. Generative AI can be used to adjust security controls based on real-time threat intelligence and changing risk profiles.

But complex hybrid cloud environments can lead to misconfigured security policies, which AI may not always detect. Also, AI models can be like black boxes, making it difficult to understand how they arrive at security decisions. Therefore, human oversight is essential and it is best practice to regularly test and monitor AI models for vulnerabilities that could introduce new security risks.

**97% of enterprises admit to having gaps in their cloud management plans.**

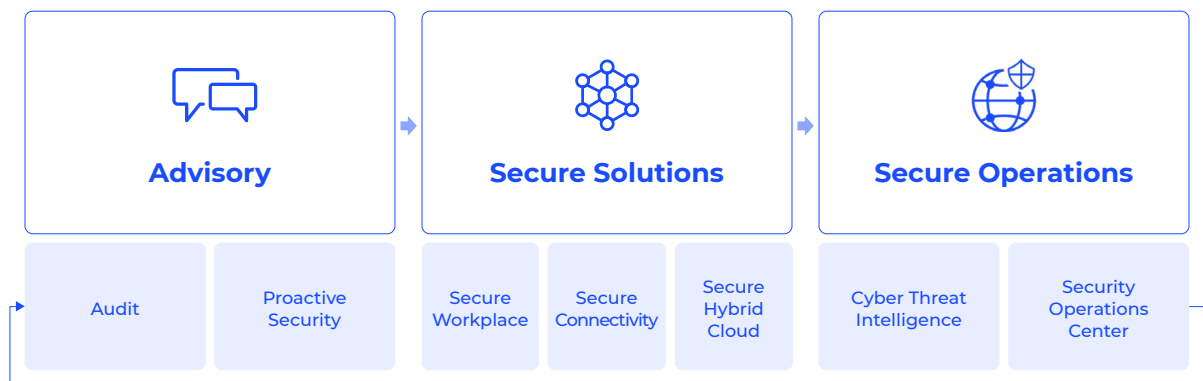
[PWC Global Digital Trust Insights Report](#)



# The Intelligent Security Blueprint

Many organisations focus on one area of the security fabric, but at Logicalis we recognise in today's cybersecurity landscape there are no silos. Organisations must look across the entire footprint, from Secure Connectivity, Securing the Cloud, Securing the Hybrid Worker and weaving Secure Operations across the entire organisation.

With Logicalis Intelligent Security, the blueprint for change helps guide your journey so you can start every day with confidence.





**With great power comes  
great responsibility**

The era of AI presents us with tremendous opportunities for growth and progress. However, it also demands that we rethink security and take proactive measures to safeguard our workplace, connectivity, and cloud infrastructure.

By taking an intelligent approach to security and leveraging AI's power, we can maximise the benefits while minimising the risks it poses.

With Logicalis working hand in hand or by your side, you are empowered to detect and respond to any threat. Stay hypervigilant in the face of new risks and begin every day with confidence.

**We are Architects of Change.  
We help organisations succeed in a digital-first world.**

At Logicalis, we harness our collective technology expertise to help our clients build a blueprint for success, so they can deliver sustainable outcomes that matter.

[www.logicalis.com](http://www.logicalis.com)