

“Carbon60 are excited to be a part of an industry that thrives on new technologies, automation and artificial intelligence activities that provide fantastic opportunities to develop and create a new breed of skilled workforce. The launch of the £20 million Cyber Schools programme is an excellent way of encouraging people from an early age to prepare our future workforce for the growing cyber threat.”

Nick Parker, Operations Director

Technology overview & outlook

Autumn 2017



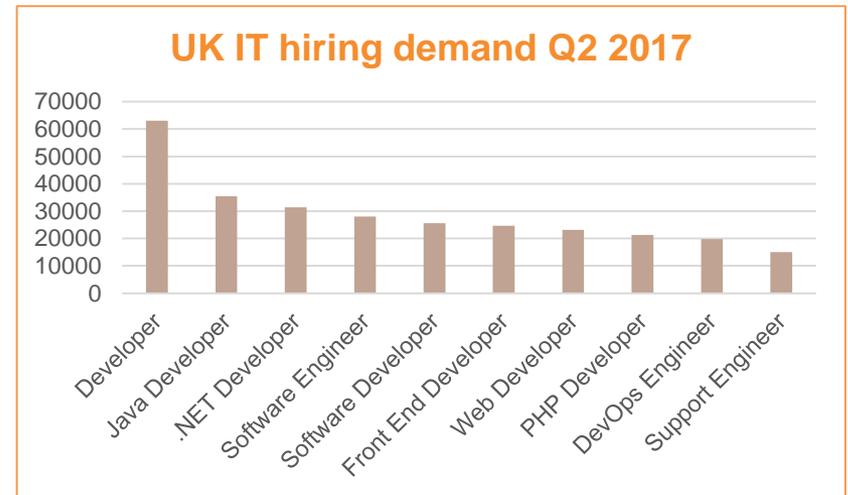
Technology overview



DDoS attacks are on the rise as hackers try and diversify their threats, according to a report from Akamai. The number of DDoS attacks increased by **28%** in Q2 2017, following 3 consecutive quarters of activity decline, as attacks from the PBot malware hit a new high.

Growth in DDoS attacks were bad news for UK businesses who suffered over **32.5 million** attacks during Q2 2017. The US took the (unfortunate) top spot, receiving over **122 million** attacks in the same period.

Egypt was found to be the top originator of unique IP addresses used in frequent DDoS attacks, with **32%** of the global total.



73% of female students have never considered applying for a graduate job in technology, according to research by KPMG.

Analyst company Gartner has predicted **artificial intelligence** will be the biggest 'megatrend' of the next decade, 7 years after it identified social cloud, analytics and cloud as megatrends.

45%
of UK security
exports are
cyber-related

DDoS: Incoming traffic flooding the victim originating from many different sources. This effectively makes it impossible to stop the attack simply by blocking a single source.

100
average number
of cyber attacks
a company face
per year



Technology outlook



What tech skills do you need to stay ahead of the game?

Cloud computing

A resurgence of Microsoft and SAP has made the hybrid cloud a reality for many companies, pushing cloud computing skills to the top of the list.

DevOps

The adoption of DevOps continues to rise. In fact, a global survey indicates **27%** of developers are working on DevOps teams with the migration to the cloud fueling an increase in projects that employ the DevOps model.

Programming & Development

JavaScript implementation, ES6 topped the list of programming languages, the rise of Microsoft Typescript and Go (Golang) over the last 6 months could be the start of a major shift for programmers and developers.

Source: dice.com

Over **30%** of IT workers think they need more training to be able to progress their career. As Brexit is threatening the talent pool outside the EU, the focus needs to be on developing existing skills in the UK to reduce the skills gap which is costing the UK economy an estimated **£63 billion** a year.

Over **50%** of IT professionals in the UK are receiving training from their employer, but only **15.8%** say it's a regular occurrence.

ITIL, AWS, CCNA, Prince2 and **SAP** are the most popular areas for training.

A **£20 million** Cyber Schools Programme will be launched in autumn 2017 to provide up to **6,000** secondary school students with training through extracurricular clubs, activities and an online game. The **Department for Digital, Culture, Media and Sport (DCMS)** said the programme is intended *“to make sure the UK is prepared for the future and ready to tackle the growing threat posed by cyber criminals”* with the aim for at least **5,700** teenagers to be trained by 2021.





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