



# Department for Digital, Culture Media & Sport

**Ben Shaps**

Cyber Security - Growth & Innovation



HM Government

# NATIONAL CYBER SECURITY STRATEGY 2016-2021



## 7. DEVELOP



## 5. DEFEND

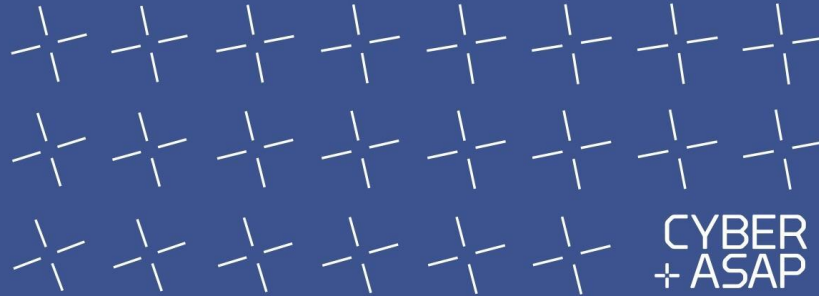


Department for  
Digital, Culture  
Media & Sport

**Every organisation in the UK  
is cyber secure and resilient  
to support a prosperous  
digital economy**

# Cyber Security Academic Startup Accelerator Programme

Year 2 Demo Day  
17th January 2019



CYBER  
+ ASAP





Designed to help bring ideas to life.



## Have a cyber security idea but don't know how to make it a reality?

HutZero is the leading early-stage entrepreneur bootcamp which helps you gain all the tools you need to get your idea off the ground.

HutZero 2018 Spring applications have closed. To receive updates on our next programme please register your interest.

[Register your interest](#)



# CYBER 101

## Business basics bootcamps for cyber security SMEs

Apply online: [bit.ly/Cyber101OpenCall](https://bit.ly/Cyber101OpenCall)



**CATAPULT**  
Digital

 **THE ACCELERATOR NETWORK**

**CSIT** CENTRE  
FOR SECURE  
INFORMATION  
TECHNOLOGIES

 **INOGENESIS**  
DE-RISKING DISRUPTION

**DIGITAL  
CATAPULT  
CENTRE**  
NORTHERN  
IRELAND



# NCSC CYBER ACCELERATOR

A world-leading cyber acceleration programme,  
powered by Wayra UK



# LORCA

Cyber Innovation Centre





#WeAreTechNation  
[technation.io/cyber](https://technation.io/cyber)

# Tech Nation's first growth programme for the cyber security sector



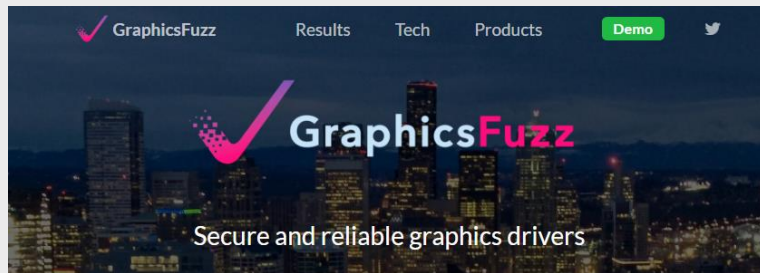




# The US Department of Homeland Security just hired a UK firm of 20 people to help with border security

## US takeover for Scottish cyber security firm ZoneFox

© 23 October 2018



6 August 2018

### GraphicsFuzz is acquired by Google

We are excited to announce that GraphicsFuzz Ltd. has been acquired by Google, and that the GraphicsFuzz team – Alastair Donaldson, Hugues Evrard and Paul Thomson – will be joining Google's Android Graphics Team to integrate their specialist graphics driver testing technology within the Android ecosystem.

GraphicsFuzz has pioneered the combination of fuzzing and metamorphic testing to yield a highly automatic method for testing graphics drivers that quickly finds and fixes bugs that could undermine reliability and security before they affect end users. As reported in a series of blog posts on Medium, the approach has been successful at exposing a large number of graphics driver defects across a wide range of mobile and desktop platforms.

The GraphicsFuzz technology was developed by Alastair, Hugues, Paul and Andrei Lascu from the Department of Computing at Imperial College London, with funding support from the UK Engineering and Physical Sciences Research Council and the TETRACOM EU project. The team entered and reached the



# Threats

- Phishing
- DDoS
- Hackers finding exploits in software that businesses and industrial operations function on - these will hopefully be patched by big software providers
- Supply chain (thousands of suppliers)
- New threats - enormous growth of IoT - 25bn connected devices by 2020 (thermometer, casino)



## Five questions the NCSC advises every Board asks themselves:

Q1: How do we defend our organisation against phishing attacks?

Q2. How does our organisation control the use of privileged IT accounts?

Q3. How do we ensure that our software and devices are up to date?

Q4. How do we make sure our partners and suppliers protect the information we share with them?

Q5. What authentication methods are used to control access to systems and data?



## Cyber Breaches Survey 2018

- **Over four in ten businesses (43%)** experienced a cyber security breach or attack in the last 12 months.
- **Three-quarters of businesses (74%)** say that cyber security is a high priority for their organisation's senior management.
- **Under three in ten businesses (27%)** have a formal cyber security policy or policies in place.



## Health Check Survey for FTSE 350

- 72% of respondents to the 2018 Health Check report that the board considers the risk of cyber threats to be high or very high in comparison to all risks that businesses face. This compares to just 54% of boards in 2017.
- 77% of respondents reported that board discussion and management of cyber security has increased since GDPR.
- Only 16% report that their board has a comprehensive understanding of the impact of loss or disruption associated with cyber attacks. Boards cannot be confident they are properly managing their cyber risk if they don't understand the consequence of failure.



## Other Updates

### SKILLS

- Initial Cyber Security Skills Strategy
- UK Cyber Security Council

### SECURE BY DESIGN:

- UK's Code of Practice for Consumer IoT Security / ETSI (the European Telecommunications Standards Institute)



Thanks for listening! Any questions?