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Run: Cyber Security - 5 Sep 2016 / Course overview

Course overview

Cyber Security: Safety at Home, Online, in Life

LIST VIEW   STEP TYPES   Collapse all

∧   **1. Exploring personal privacy online** (18 steps)   ✎ Edit

∧   Welcome! Let's get started....   ✎ Edit

   1.1   Welcome to the course VIDEO (01:39)   ✎ Edit

   1.2   What is privacy? ARTICLE   ✎ Edit

   1.3   How concerned are you about privacy? EXERCISE   ✎ Edit

   1.4   Privacy online and offline VIDEO (04:41)   ✎ Edit

∧   Our personal data: what value does it have to businesses?   ✎ Edit

   1.5   What value do businesses get from our personal data? ARTICLE ✎ Edit

   1.6   Personal risks arising from privacy breaches in business ARTICLE ✎ Edit

   1.7   How do privacy laws govern how companies do business? QUIZ   ✎ Edit

∧   What information do we share? Should we be concerned?   ✎ Edit

     1.8   Find out about your digital footprint ARTICLE   ✎ Edit

     1.9   Comparing your online profile with your privacy preferences DISCUSSION   ✎ Edit

     1.10   Finding and understanding privacy policies DISCUSSION   ✎ Edit

     1.11   How privacy needs can change over time ARTICLE   ✎ Edit

     1.12   Exploring private browsing ARTICLE   ✎ Edit

∧   What's most valuable to hackers and criminals?   ✎ Edit

     1.13   Why would anyone want your data? VIDEO (06:02)   ✎ Edit

     1.14   Cumulative effects ARTICLE   ✎ Edit

∧   What do our experts think?   ✎ Edit

     1.15   Usable privacy: a research perspective ARTICLE   ✎ Edit

     1.16   Preserving privacy in cloud storage: privacy by design VIDEO (04:01)   ✎ Edit

∧   Rounding up the week   ✎ Edit

     1.17   Recapping our exploration of privacy ARTICLE   ✎ Edit

     1.18   Staying safe online: personal perspectives VIDEO (05:48)   ✎ Edit

∧   **2. Online payment security** (21 steps)   ✎ Edit

∧   Welcome to payment security week   ✎ Edit

     2.1   Welcome to Week 2: payment security VIDEO (00:37)   ✎ Edit

     2.2   How payments have changed ARTICLE   ✎ Edit

     2.3   Your chance to explore payment changes EXERCISE   ✎ Edit

∧   How do fraudsters adapt to new payment technologies and changes in payment security?   ✎ Edit

     2.4   The evolving arms race of payment security VIDEO (07:06)   ✎ Edit

     2.5   Usability vs security: who pays for fraud? ARTICLE   ✎ Edit

2.6   What is it like in your country? DISCUSSION   ✏ Edit

2.7   Risk and reward ARTICLE   ✏ Edit

2.8   What is the true cost of financial fraud in the UK ? QUIZ   ✏ Edit

   ∧   Business perspectives   ✏ Edit

2.9   Many fingers in the pie ARTICLE   ✏ Edit

2.10   The online retailer ARTICLE   ✏ Edit

   ∧   Cybercriminals: why do they do it?   ✏ Edit

2.11   Motivations, methods and practical attacks by cybercriminals ARTICLE   ✏ Edit

2.12   Black markets: the sale and purchase of stolen credit card details online ARTICLE   ✏ Edit

2.13   What methods and targets are attractive to criminals? ARTICLE   ✏ Edit

   ∧   What contribution does research make in the battle against fraudsters?   ✏ Edit

2.14   Regaining an advantage - the role of research ARTICLE   ✏ Edit

2.15   Is your mobile phone spying on you? ARTICLE   ✏ Edit

2.16   The million dollar contactless payment VIDEO (01:32)   ✏ Edit

2.17   Bitcoin: a cryptocurrency ARTICLE   ✏ Edit

   ∧   Reducing our risks   ✏ Edit

2.18   Expert advice on protecting your money ARTICLE   ✏ Edit

2.19   Phishing QUIZ   ✏ Edit

2.20   Staying safe with online payments ARTICLE   ✏ Edit

   ∧   Summary   ✏ Edit

2.21   Over to you - what are your ideas? DISCUSSION   ✏ Edit

   ∧   **3. Security in the future home** (21 steps)   ✏ Edit

   ∧   The future home is a connected home   ✏ Edit

3.1	Welcome to Week 3: security in the future home VIDEO (00:59)	✎ Edit
3.2	Devices in the future home VIDEO (03:26)	✎ Edit
3.3	How many connected devices do you own? EXERCISE	✎ Edit
3.4	Issues raised by connected devices? DISCUSSION	✎ Edit

∧ Smart devices bring ease and convenience   ✎ Edit

3.5	Case study 1: the ordering stick ARTICLE	✎ Edit
3.6	Case study 2: the door ARTICLE	✎ Edit
3.7	Case study 3: Co-wheels ARTICLE	✎ Edit
3.8	Staying in control ARTICLE	✎ Edit

∧ How do our connected homes expose us?   ✎ Edit

3.9	Crime ARTICLE	✎ Edit
3.10	STRIDE ARTICLE	✎ Edit
3.11	Apply the STRIDE model to the future home QUIZ	✎ Edit
3.12	How are these new threats different from the old ones? DISCUSSION	✎ Edit

∧ What will you compromise in the security-usability tradeoff?   ✎ Edit

3.13	Security privacy tradeoff ARTICLE	✎ Edit
3.14	Exploring security: biometric authentication VIDEO (05:13)	✎ Edit
3.15	Exploring security: the Access Control Live Lab VIDEO (03:47)	✎ Edit
3.16	Is security a matter of trade-off? DISCUSSION	✎ Edit

∧ How do businesses protect themselves from attack?   ✎ Edit

3.17	Zero-day vulnerabilities and bounty programs ARTICLE	✎ Edit

∧ What have we learned?   ✎ Edit

3.18	Test your understanding TEST	✎ Edit
3.19	What will you do differently, or do next? DISCUSSION	✎ Edit

3.20   Wrapping up ARTICLE   ✎ Edit

Glossary and References   ✎ Edit

    3.21   Glossary and references ARTICLE   ✎ Edit