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Nota di contenuto	Title Page; Contents; Introduction; Chapter1. An Ordinary Day in the Life of Mr. Rowley, or the Dangers of Virtualization and Mobility; 1.1. A busy day; 1.2. The ups and downs of the day; 1.3. What actually happened?; Chapter 2. Threats and Attacks; 2.1. Reconnaissance phase; 2.1.1. Passive mode information gathering techniques; 2.1.2. Active mode information gathering techniques; 2.2. Identity/authentication attack; 2.2.1. ARP spoofing; 2.2.2. IP spoofing; 2.2.3. Connection hijacking; 2.2.4. Man in the middle; 2.2.5. DNS spoofing; 2.2.6. Replay attack; 2.2.7. Rebound intrusion 2.2.8. Password hacking2.2.9. The insecurity of SSL/TLS; 2.3. Confidentiality attack; 2.3.1. Espionage software; 2.3.2. Trojans; 2.3.3. Sniffing; 2.3.4. Cracking encrypted data; 2.4. Availability attack; 2.4.1. ICMP Flood; 2.4.2. SYN Flood; 2.4.3. Smurfing; 2.4.4. Log Flood; 2.4.5. Worms; 2.5. Attack on software integrity; 2.6. BYOD: mixed-genre threats and attacks; 2.7. Interception of GSM/GPRS/EDGE communications; Chapter 3. Technological Countermeasures; 3.1. Prevention; 3.1.1. Protection of mobile equipment; 3.1.2. Data protection; 3.2. Detection; 3.2.1. Systems of intrusion detection

3.2.2. Honeypot; 3.2.3. Management and supervision tools; 3.3. Reaction; 3.3.1. Firewall; 3.3.2. Reverse proxy; 3.3.3. Antivirus software; 3.3.4. Antivirus software: an essential building block but in need of completion; 3.4. Organizing the information system's security; 3.4.1. What is security organization?; 3.4.2. Quality of security, or the attraction of ISMS; Chapter 4. Technological Countermeasures for Remote Access; 4.1. Remote connection solutions; 4.1.1. Historic solutions; 4.1.2. Desktop sharing solutions; 4.1.3. Publication on the Internet; 4.1.4. Virtual Private Network (VPN) solutions; 4.2. Control of remote access; 4.2.1. Identification and authentication; 4.2.2. Unique authentication; 4.3. Architecture of remote access solutions; 4.3.1. Securing the infrastructure; 4.3.2. Load balancing/redundancy; 4.4. Control of conformity of the VPN infrastructure; 4.5. Control of network admission; 4.5.1. Control of network access; 4.5.2. ESCV (Endpoint Security Compliancy Verification); 4.5.3. Mobile NAC; Chapter 5. What Should Have Been Done to Make Sure Mr Rowley's Day Really Was Ordinary; 5.1. The attack at Mr Rowley's house; 5.1.1. Securing Mr Rowley's PC; 5.1.2. Securing the organizational level; 5.1.3. Detection at the organizational level; 5.1.4. A little bit of prevention; 5.2. The attack at the airport VIP lounge while on the move; 5.3. The attack at the cafe; 5.4. The attack in the airport VIP lounge during Mr Rowley's return journey; 5.5. The loss of a smartphone and access to confidential data; 5.6. Summary of the different security solutions that should have been implemented; Conclusion; APPENDICES; Appendix 1; Appendix 2; Bibliography; Index

Sommario/riassunto

Over recent years, the amount of mobile equipment that needs to be connected to corporate networks remotely (smartphones, laptops, etc.) has increased rapidly. Innovative development perspectives and new tendencies such as BYOD (bring your own device) are exposing business information systems more than ever to various compromising threats. The safety control of remote access has become a strategic issue for all companies. This book reviews all the threats weighing on these remote access points, as well as the existing standards and specific countermeasures to protect companies, from both th
