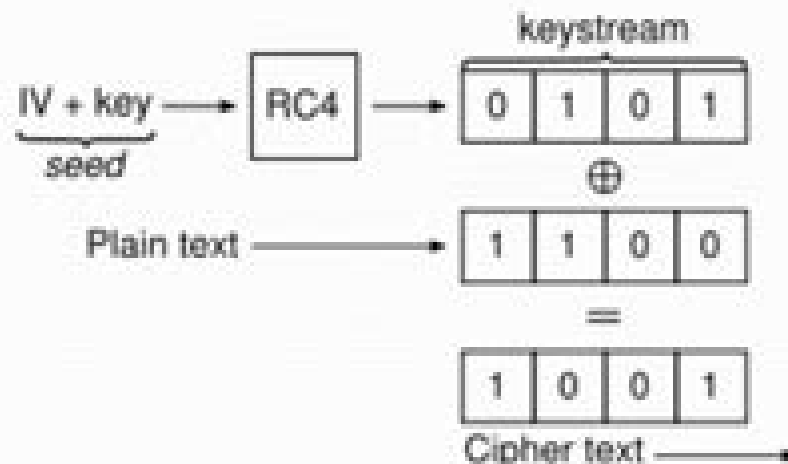


Wired Equivalent Privacy

- Wired Equivalent Privacy (WEP) is an algorithm that was specified in the original IEEE 802.11 specification.
 - To prevent disclosure of packets in transit
 - To prevent modification of packets in transit
 - To provide access control for use of the network



http://en.wikipedia.org/wiki/Wired_Equivalent_Privacy

Wired Equivalent Privacy

Jie Wang, Zachary A. Kissel



Wired Equivalent Privacy

Enhancing Message Privacy in WEP Darshan Shrinath Purandare,2005 The 802.11 standard defines the Wired Equivalent Privacy WEP and encapsulation of data frames It is intended to provide data privacy to the level of a wired network WEP suffered threat of attacks from hackers owing to certain security shortcomings in the WEP protocol Lately many new protocols like WiFi Protected Access WPA WPA2 Robust Secure Network RSN and 802.11i have come into being yet their implementation is fairly limited Despite its shortcomings one cannot undermine the importance of WEP as it still remains the most widely used system and we chose to address certain security issues and propose some modifications to make it more secure In this thesis we have proposed a modification to the existing WEP protocol to make it more secure We achieve Message Privacy by ensuring that the encryption is not breached The idea is to update the shared secret key frequently based on factors like network traffic and number of transmitted frames We also develop an Initialization Vector IV avoidance algorithm that eliminates IV collision problem The idea is to partition the IV bits among different wireless hosts in a predetermined manner unique to every node We can use all possible 2²⁴ different IVs without making them predictable for an attacker Our proposed algorithm eliminates the IV collision ensuring Message Privacy that further strengthens security of the existing WEP We show that frequent rekeying thwarts all kinds of cryptanalytic attacks on the WEP

802.11 Security Bruce Potter,Bob Fleck,2002-12-17 Focusing on wireless LANs in general and 802.11 based networks in particular Potter VeriSign and Fleck Secure Software outline strategies and implementations for deploying a secure wireless network They explain how the 802.11 protocols work and how an attacker will attempt to exploit weak spots within a network and suggest methods for locking down a wireless client machine and securely configuring a wireless access point Annotation 2004 Book News Inc Portland OR booknews.com

Short Description of WEP with Special Focus on RC4 ,2013 The wired equivalent privacy is a security standard designed in the year 1999 by the institute of electrical and electronics engineers to provide security in a wireless network Although WEP was deprecated in 2004 due to many security flaws it is surprisingly widely used For instance in our research we found an internet site that tracks unique wifi networks in its database claiming that about 25% of roughly 85356393 of those networks it has documented still use wired equivalent privacy encryption In this thesis we gave a general descriptive overview of the multiple parts of the security standard We described the authentication options provided by this standard along with the error correcting code used in the standard In this thesis we also described the types of errors that the error detecting code fails to detect we then demonstrated how the error detecting code is fooled into accepting certain codewords even though these codewords were not error free In this thesis we also described the encryption algorithm Ron's Code 4 which is one of the major parts of the security standard since it is used to guarantee the privacy of information After describing in details how the encryption and decryption is done we describe one of the most damaging attacks on the security standard The Fluhrer Mantin Shamir attack is one of the earliest attacks that took advantage of certain initialization weaknesses in the encryption algorithm to give attacker knowledge of the secret key used by the encryption code thus giving the attacker free access to all the private data encrypted using this key In this thesis we described why this attack was so successful and we demonstrated the effectiveness of the attack with examples

Hackproofing Your Wireless Network Syngress,2002-03-22 The only way to stop a hacker is to think like one Wireless technology is a new and rapidly growing field of concentration for network engineers and administrators Innovative technology is now making the communication between computers a cordless affair Wireless devices and networks are vulnerable to additional security risks because of their presence in the mobile environment Hack Proofing Your Wireless Network is the only book written specifically for architects engineers and administrators responsible for securing their wireless networks From making sense of the various acronyms WAP WEP SSL PKE PKI SSL SSH IPSEC to the implementation of security policies plans and recovery protocols this book will help users secure their wireless network before its security is compromised The only way to stop a hacker is to think like one this book details the multiple ways a hacker can attack a wireless network and then provides users with the knowledge they need to prevent said attacks Uses forensic based analysis to give the reader an insight into the mind of a hacker With the growth of wireless networks architects engineers and administrators will need this book Up to the minute Web based support at www.solutions.syngress.com

Wireless Security 45 Success Secrets - 45 Most Asked Questions on Wireless Security - What You Need to Know Roy Harrison,2014-03-11 Wireless security is the averting of non authorized access either harm to computers utilizing wireless networks The most commonplace kinds of wireless safeguarding are Wired Equivalent Privacy WEP and Wi Fi Protected Access WPA WEP is a notoriously feeble safeguarding normal The word of identification it utilizes may frequently be cracked in a limited minutes with a fundamental laptop computer and extensively accessible code implements WEP is an aged IEEE 802 11 normal as of 1999 that was antiquated in 2003 by WPA either Wi Fi Protected Access WPA was a fast alternate to better safeguarding over WEP The present criterion is WPA2 a few equipment can t aid WPA2 short of microcode update either substitution WPA2 utilizes an encoding implement that encrypts the net work with a 256 bit key the lengthier key extent betters safeguarding over WEP There has never been a Wireless security Guide like this It contains 45 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Wireless security A quick look inside of some of the subjects covered Mobile marketing Privacy concerns in mobile marketing PCI DSS Minimum scanning requirements for wireless LANs CCNA Security Wireless Packet Tracer Packet Tracer 5 3 New features Cisco Career Certifications Wireless Mobile security Articles Wireless security WiFi Data security risks Wireless security MAC ID filtering Wi Fi Data security risks Wi Fi Network security Wi Fi Protected Setup Network encryption cracking Wireless security Mobile devices Department of Homeland Security Cyber security Closed circuit television Wireless security cameras and much more

Wi-Fi Security Stewart Miller,2003-02-12 By following this resource corporations can go wireless and still protect mission critical data Top corporate security consultant Stewart Miller covers security for Windows Linux Macs Palms and other PDAs and shows how to prevent breaches caused by weak encryption protocols Review security approaches for the different standards currently competing for the U S market Addresses data compromise unauthorized access and denial of service all critical to WLAN users Covers the 802 11 IEEE standard in regards to security performance and throughput Discusses encryption and privacy through the WEP Wired Equivalent Privacy protocol

Building Secure Wireless Networks with 802.11 Jahanzeb Khan, Anis Khwaja, 2003-02-03 Provides a step by step approach for planning and implementing a wireless LAN based on 802.11 Wireless Fidelity Wi-Fi technology. Authors are Wi-Fi security experts who are able to address the firestorm of concerns about security for 802.11b networks. Offers a clear perspective of interoperability with related wireless standards like 802.11a HomeRF and Bluetooth. Explains how to achieve the same performance as a wired Ethernet connection and deliver flexibility and high speed.

CompTIA Security+ Rapid Review (Exam SY0-301) Michael Gregg, 2012-12-15 Assess your readiness for CompTIA Security Exam SY0 301 and quickly identify where you need to focus and practice. This practical streamlined guide walks you through each exam objective providing need to know checklists, review questions, tips, and links to further study, all designed to help bolster your preparation. Reinforce your exam prep with a Rapid Review of these objectives: Network security, Compliance and operational security, Threats and vulnerabilities, Application data and host security, Access control and identity management, Cryptography. This book is an ideal complement to the in-depth training of the Microsoft Press Training Kit and other exam prep resources for CompTIA Security Exam SY0 301.

Establishing Wireless Robust Security Networks: a Guide to IEEE 802.11i Sheila Frankel, Bernard Eydt, Les Owens, Karen Scarfone, 2012-06-30 The National Institute of Standards and Technology Special Publication 800-97 provides readers with a detailed explanation of next generation 802.11 wireless security. It describes the inherently flawed Wired Equivalent Privacy (WEP) and explains 802.11i's two-step approach: interim and long term, to providing effective wireless security. It describes secure methods used to authenticate users in a wireless environment and presents several sample case studies of wireless deployment. It also includes guidance on best practices for establishing secure wireless networks using the emerging Wi-Fi technology.

A Comparative Study Into the Encryption Algorithms Used in Wireless Internet Security Christopher R. Harm, 2003 The industry standard IEEE 802.11 WEP protocol does not provide adequate security for protecting a Wireless Local Area Network (WLAN). The main reason is that the Wired Equivalent Privacy (WEP) protocol relies on the secret keys that are used to encrypt the messages. Because of the limited length of the keys and frame format, it is very likely that the keys would have to be re-used within a day of normal operation. Investigate the feasibility of using RSA, an encryption scheme based on a combination of public key and private key, in real-time mobile computing. Experiments indicate that while it is difficult to encrypt the messages themselves in a reasonable amount of time, it is feasible to use RSA to encrypt the keys that can be used to encrypt data.

802.11 Wireless Networks: The Definitive Guide Matthew S. Gast,2005-04-25 As we all know by now wireless networks offer many advantages over fixed or wired networks Foremost on that list is mobility since going wireless frees you from the tether of an Ethernet cable at a desk But that s just the tip of the cable free iceberg Wireless networks are also more flexible faster and easier for you to use and more affordable to deploy and maintain The de facto standard for wireless networking is the 802 11 protocol which includes Wi Fi the wireless standard known as 802 11b and its faster cousin 802 11g With easy to install 802 11 network hardware available everywhere you turn the choice seems simple and many people dive into wireless computing with less thought and planning than they d give to a wired network But it s wise to be familiar with both the capabilities and risks associated with the 802 11 protocols And 802 11 Wireless Networks The Definitive Guide 2nd Edition is the perfect place to start This updated edition covers everything you ll ever need to know about wireless technology Designed with the system administrator or serious home user in mind it s a no nonsense guide for setting up 802 11 on Windows and Linux Among the wide range of topics covered are discussions on deployment considerations network monitoring and performance tuning wireless security issues how to use and select access points network monitoring essentials wireless card configuration security issues unique to wireless networks With wireless technology the advantages to its users are indeed plentiful Companies no longer have to deal with the hassle and expense of wiring buildings and households with several computers can avoid fights over who s online And now with 802 11 Wireless Networks The Definitive Guide 2nd Edition you can integrate wireless technology into your current infrastructure with the utmost confidence

Performance Evaluation of Security Algorithms in a Wi-Fi Testbed Kshitiz Saxena,Juhi Sharma,2012-05 In the IEEE 802 11 standard an optional encryption protocol called Wired Equivalency Privacy WEP is used to make wireless traffic as secure as wired network traffic However it has been found that WEP suffers several weaknesses like a shared key weakness no per packet authentication vulnerability to disassociation attacks no user identification and authentication no central authentication authorization and accounting support and vulnerability of RC4 to known plaintext attacks To address these concerns The Temporal Key Integrity Protocol TKIP was created to fix the weaknesses of Wired Equivalent Privacy WEP Wireless security is an exciting field of study and we aim to find more weaknesses and new application areas of the attacks on TKIP We hope that our work may contribute to motivate people to migrate their wireless security protocols to the more secure alternative CCMP

802.11 Security Bruce Potter, Bob Fleck, 2003 Mention wireless networks and the question of security will soon follow It's not surprising that in spite of compelling business arguments for going wireless many companies are holding back because of security concerns But while it's true that wireless networks create security issues that don't exist in wired networks the issues are not insurmountable 802.11 Security shows how you can plan for and successfully contend with security obstacles in your wireless deployment This authoritative book not only explains the security issues but shows you how to design and build your own secure wireless network 802.11 Security covers the entire process of building secure 802.11 based wireless networks in particular the 802.11b Wi-Fi specification The authors provide detailed coverage of security issues unique to wireless networking such as Wireless Access Points WAP bandwidth stealing and the problematic Wired Equivalent Privacy component of 802.11 You'll learn how to configure a wireless client and to set up a WAP using either Linux or Free BSD You'll also find thorough information on controlling network access and encrypting client traffic Beginning with an introduction to 802.11b in general the book gives you a broad basis in theory and practice of wireless security dispelling some of the myths along the way In doing so they provide you with the technical grounding required to think about how the rest of the book applies to your specific needs and situations Next the book details the technical setup instructions needed for both the Linux and FreeBSD operating systems Some of the topics covered include Station Security for Linux FreeBSD Open BSD Mac OS X and Windows Setting Up Access Point Security Gateway Security including building Gateways firewall Rules Auditing etc Authentication and Encryption FreeBSD IPsec client and gateway configuration Linux IPsec client and gateway configuration 802.1x authentication 802.11 Security is a book whose time has come If you are a network security or systems engineer or anyone interested in deploying 802.11b based systems you'll want this book beside you every step of the way

Wep 20 Success Secrets - 20 Most Asked Questions on Wep - What You Need to Know Danny Brady, 2013-07 There has never been a WEP Guide like this WEP 20 Success Secrets is not about the ins and outs of WEP Instead it answers the top 20 questions that we are asked and those we come across in our forums consultancy and education programs It tells you exactly how to deal with those questions with tips that have never before been offered in print Get the information you need fast This comprehensive guide offers a thorough view of key knowledge and detailed insight This Guide introduces everything you want to know to be successful with WEP A quick look inside of the subjects covered What is the weakness of WEP wired equivalent privacy Citrix Certified Enterprise Administrator CCEA for XenApp Which features are available for SOHO device and enterprise device Certified Wireless Network Administrator CWNA What is Wireless Security Certified Wireless Security Professional CWSP What is Wired Equivalent Privacy Certified Wireless Security Professional CWSP What are the problems with WEP Security Certified Wireless Security Professional CWSP What are the types of EAP authentication Certified Wireless Network Administrator CWNA The Particulars of CCNA Test v1.2 What are the commonly deployed EAP authentication types Certified Wireless Security Professional CWSP What is Wi-Fi Protected Access Certified Wireless Network Administrator CWNA What are the privileges of user account control Microsoft Certified IT Professional Briefly describe the two authentication methods Certified Wireless Network Administrator CWNA The Focus Areas of the CCNP ONT Exam UK judge orders Apple to create an ad campaign aimed at dispelling the notion that Samsung violated iPad copyrights Network Addressing What tools and methods are used to gain access and attack WLANs Certified Wireless Security Professional CWSP Network Devices Presentation Sharing What are examples of Authentication for wireless systems Citrix Netscaler 9.0 What is WEP Certified Wireless Network Administrator CWNA What is the process of Shared Key Authentication Certified Wireless Security Professional CWSP and much more

Optimizing IEEE 802.11i Resource and Security Essentials Iraj Sadegh Amiri, Parisa Naraei, Iman Saberi, 2014-12-05 In the past decade the number of wireless devices has grown exponentially Decades ago all systems were wired computer systems Wireless technology was not accessible in mobile and portable devices until in recent years and has followed a variety of methods for encryption and resource management The purpose of the research in Optimizing IEE 802 11i Resources and Security Essentials is to determine the issues of the performance in current encryption methods in AES CCMP in different types of devices and handle it so that an optimized resource usage would be achieved with the required security Two modes for 802 11i for two different groups of devices is suggested and evaluated with the current encryption method for AES CCMP to compare the performance Almost every organization in today s world relies on wireless networks to transmit information and much of that information should be kept secure Banking healthcare and the military are all vital industries that rely on wireless security for a huge section of their operations Security experts of today and tomorrow will learn a lot from Optimizing IEE 802 11i Resources and Security Essentials and it can be used for master level in computer science information security wireless network security and cryptography The research in this book covers how to best balance security concerns with limited resources available on wireless devices as well as how to optimize security resources on higher end non mobile devices

Redes Inalámbricas Fuente Wikipedia, 2013-09 Fuente Wikipedia Paginas 34 Capítulos Wi Fi IEEE 802 15 4 Wired Equivalent Privacy Guifi net IDEN Wi Fi Protected Access AirPort Red inalámbrica WURFL TD CDMA La Fonera Red inalámbrica municipal Red inalámbrica Mesh Proyecto DeLorean Ultrawideband Estratelite Near Field Communication ProAP Livebox Organizaciones Certificadoras y Reguladoras Inalámbricas WirelessHD Wibree Time Capsule TKIP Red inalámbrica inteligente Red Ad hoc Badalonawireless Tethering MiFi WAP11 WISP WPA2 Descarga de datos móviles Castalia Gi Fi AOSS RSSI Inalámbrica D C Autotel Extracto Wi Fi pronunciado en español w f y en inglés wa fa es una marca de la Wi Fi Alliance anteriormente la WECA Wireless Ethernet Compatibility Alliance la organización comercial que adopta prueba y certifica que los equipos cumplen los estándares 802 11 relacionados a redes inalámbricas de área local Nokia y Symbol Technologies crearon en 1999 una asociación conocida como WECA Wireless Ethernet Compatibility Alliance Alianza de Compatibilidad Ethernet Inalámbrica Esta asociación paso a denominarse Wi Fi Alliance en 2003 El objetivo de la misma fue crear una marca que permitiese fomentar más fácilmente la tecnología inalámbrica y asegurar la compatibilidad de equipos De esta forma en abril de 2000 WECA certifica la interoperabilidad de equipos según la norma IEEE 802 11b bajo la marca Wi Fi Esto quiere decir que el usuario tiene la garantía de que todos los equipos que tengan el sello Wi Fi pueden trabajar juntos sin problemas independientemente del fabricante de cada uno de ellos Se puede obtener un listado completo de equipos que tienen la certificación Wi Fi en Alliance Certified Products En el año 2002 la asociación WECA estaba formada ya por casi 150 miembros en su totalidad La norma IEEE 802 11 fue diseñada para sustituir el equivalente a las capas físicas y MAC de la norma 802 3 Ethernet Esto

Evaluation of WLAN Security and Performance Alikira Richard,2012-12-06 Research Paper postgraduate from the year 2012 in the subject Computer Science Internet New Technologies Kampala International University School of postgraduate studies computer department course Network security language English abstract This report addresses the reality of Wireless LAN security and performance It provides an overview of security mechanisms and explains how security works in Wireless LAN networks An in depth analysis of the Wired Equivalent Privacy WEP Wi Fi protected access WPA and WPA2 standards is presented The security vulnerabilities that exist in them are analyzed and explained An experiment involving four devices Dlink Linksys nanostationloco2 and a WBS was done at Kampala international university It was discovered from literature that most people prefer using WEP yet it is least secure One study says 30% of all WLANs detected during network discovery experiment operate with WEP encryption The study further proved that WEP can be compromised with 100% success It was also discovered during the experiment that factors such as line of sight obstruction distance antenna type channel being used all affect network performance The findings of this experiment can be used as guideline choosing the right encryption method and in designing a WLAN

A Practical Guide to Understanding Wireless Networking Concepts, Security Protocols, Attack, and Safer Deployment Schemes Jay Yip,2003 Focuses on the characteristics and flaws of WEP Wired Equivalent Privacy in the present wireless network environment Discussion includes wireless traffic and WEP cracking tools a comparison of WEP with WEP2 Second Generation WEP as well as alternatives to WEP WEP2 and authentication protocols and encryption algorithms The author concludes with his recommendations for improving wireless network security

The World Wide Wi-Fi Teik-Kheong Tan,Benny Bing,2004-03-22 Your success guide to the next wireless revolution The next watershed innovation in wireless technology is here IEEE 802 11 wireless local area networks LANs Recent studies from IDC indicate that the Wi Fi wireless LAN market will likely account for ninety percent of projected LAN equipment revenues by 2005 a trend that promises to spill over into home wireless networks Yet this amazing growth has also created confusion Which version of 802 11 is best for vendors and end users What about solutions such as the a g and a b combinations of the 802 11 standards In World Wide Wi Fi Technological Trends and Business Strategies Teik Kheong TK Tan and Benny Bing provide a clear accessible road map of the Wi Fi wireless LAN market Unlike most books on wireless local area networks WLANs this must have resource explains both the business and technology of WLANs and offers ready to use tactics and strategies for thriving in this lucrative field Along the way you ll also gain insight into the emerging Wi Fi standards World Wide Wi Fi presents Key technological issues related to the design and deployment of Wi Fi wireless LANs An insider s look at market dynamics market segmentation service provider enterprise and chipset strategies The interrelationship between the 802 11a b and g standards And much more Supported by real statistics and case studies plus profiles of suppliers regulators and other market players this one of a kind guide helps you create effective market penetration strategies and evaluate vendor specific features Ultimately World Wide Wi Fi defines the 802 11 market its rapid expansion its challenges and its future Most of all it s your invitation to profit from everything that this red hot industry has to offer

Introduction to Network Security Jie Wang, Zachary A. Kissel, 2015-07-10 Introductory textbook in the important area of network security for undergraduate and graduate students. Comprehensively covers fundamental concepts with newer topics such as electronic cash, bit coin, P2P, SHA-3, E-voting, and Zigbee security. Fully updated to reflect new developments in network security. Introduces a chapter on Cloud security, a very popular and essential topic. Uses everyday examples that most computer users experience to illustrate important principles and mechanisms. Features a companion website with Powerpoint slides for lectures and solution manuals to selected exercise problems available at <http://www.cs.uml.edu/wang/NetSec>

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Table of Contents Wired Equivalent Privacy

1. Understanding the eBook Wired Equivalent Privacy
 - The Rise of Digital Reading Wired Equivalent Privacy
 - Advantages of eBooks Over Traditional Books
2. Identifying Wired Equivalent Privacy
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wired Equivalent Privacy
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wired Equivalent Privacy
 - Personalized Recommendations
 - Wired Equivalent Privacy User Reviews and Ratings
 - Wired Equivalent Privacy and Bestseller Lists
5. Accessing Wired Equivalent Privacy Free and Paid eBooks
 - Wired Equivalent Privacy Public Domain eBooks
 - Wired Equivalent Privacy eBook Subscription Services
 - Wired Equivalent Privacy Budget-Friendly Options
6. Navigating Wired Equivalent Privacy eBook Formats
 - ePub, PDF, MOBI, and More
 - Wired Equivalent Privacy Compatibility with Devices
 - Wired Equivalent Privacy Enhanced eBook Features
7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Wired Equivalent Privacy
- Highlighting and Note-Taking Wired Equivalent Privacy
- Interactive Elements Wired Equivalent Privacy
- 8. Staying Engaged with Wired Equivalent Privacy
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wired Equivalent Privacy
- 9. Balancing eBooks and Physical Books Wired Equivalent Privacy
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wired Equivalent Privacy
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Wired Equivalent Privacy
 - Setting Reading Goals Wired Equivalent Privacy
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Wired Equivalent Privacy
 - Fact-Checking eBook Content of Wired Equivalent Privacy
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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