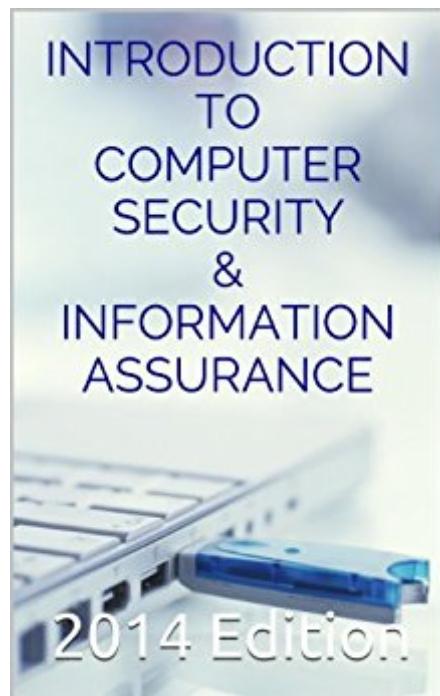


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Introduction To Computer Security And Information Assurance



Synopsis

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About This book will provide you with a not-too-technical guide for information security; weâ™ll cover everything from social engineering to cyber warfare. This book is right for anyone who wants to know more about information assurance (security), you wonâ™t need any prior experience in the field as this book is an introduction and aims to get you up to speed in the information security field.

Contents In chapter 1 we start off by discussing the basic concepts on information assurance, weâ™ll talk about the meaning of information, a little about risk, security goals and who might want to attack us. In chapter 2 we go onto looking at the various types of attacks we may face. In chapter 3 we discuss the three security goals in more detail, look at the advantages and disadvantages of offensive and defensive security and compare the various security models most widely used today.

Chapter 4 is concerned with how we measure risk and how we mitigate it through the use of standards. Chapter 5 discusses possible business constraints, the economy and the problem of security and itâ™s cost. In chapter 6 we discuss some of the security technologies we can put in place to mitigate the attacks from chapter 2. Chapter 7 explains the â™human problemâ™ in security and how your staff are often your biggest vulnerability. In chapter 8 we look at the differences between personal, business and government data and the issues each face. In chapter 9 we move onto looking at the different policies commonly put in place and best practices for the industry. Chapter 10 discusses how we can put better controls in place, build a business continuity plan and try mitigating some of the risks. Chapter 11 is concerned with the law, however we recognise IT professionals are not lawyers so we only step through a general overview of some relevant acts. Chapter 12 is concerned with the forensics side of the industry, collecting data and presenting it in court; along with the challenges computer forensic analysisâ™s face. We then move onto looking at incident response in chapter 13, how to keep the businesses running even after a disaster. Finally we consider cyber warfare in chapter 14.

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