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# **Windows Operating System V ulnerabilit ies**

Whether you  
are active in  
security  
management or

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studying for  
the CISSP  
exam, you need  
accurate  
information  
you can trust.  
A practical  
reference and  
study guide,  
Information  
Security  
Management

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Handbook,  
Fourth  
Edition,  
Volume 3  
prepares you  
not only for  
the CISSP  
exam, but also  
for your work  
as a  
professional.  
From cover to

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cover the book gives you the information you need to understand the exam's core subjects.

Providing an overview of the information security

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arena, each chapter presents a wealth of technical detail. The changes in the technology of information security and the increasing threats to

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security from  
open systems  
make a  
complete and  
up-to-date  
understanding  
of this  
material  
essential.  
Volume 3  
supplements  
the

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information in  
the earlier  
volumes of  
this handbook,  
updating it  
and keeping it  
current. There  
is no  
duplication of  
material  
between any of  
the three

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volumes.

Because the knowledge required to master information security - the Common Body of Knowledge (CBK) - is growing so quickly, it



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requires frequent updates. As a study guide or resource that you can use on the job, Information Security Management Handbook, Fourth

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Volume 3 is  
the book you  
will refer to  
over and over  
again.

Hands-On  
Ethical  
Hacking and  
Network  
Defense,  
Second Edition

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provides an in-depth understanding of how to effectively protect computer networks. This book describes the tools and penetration testing

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methodologies  
used by  
ethical  
hackers and  
provides a  
thorough  
discussion of  
what and who  
an ethical  
hacker is and  
how important  
they are in

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protecting  
corporate and  
government  
data from  
cyber attacks.  
Readers are  
provided with  
updated  
computer  
security  
resources that  
describe new v

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ulnerabilities  
and innovative  
methods to  
protect  
networks. Also  
included is a  
thorough  
update of  
federal and  
state computer  
crime laws, as  
well as

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changes in penalties for illegal computer hacking. With cyber-terrorism and corporate espionage threatening the fiber of our world, the

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need for  
trained  
network  
security  
professionals  
continues to  
grow. Hands-On  
Ethical  
Hacking and  
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Defense,  
Second Edition



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provides a structured knowledge base to prepare readers to be security professionals who understand how to protect a network by using the skills and

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tools of an  
ethical  
hacker.

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text may not

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comprehensive  
guide for  
cybersecurity  
professionals  
to acquire  
unique  
insights on  
the evolution

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of the threat  
landscape and  
how you can  
address modern  
cybersecurity  
challenges in  
your  
organisation  
Key FeaturesPr  
otect your  
organization  
from

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cybersecurity  
threats with  
field-tested s  
strategiesDisco  
ver the most  
common ways  
enterprises  
initially get  
compromisedMea  
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effectiveness  
of your

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organization's  
current

cybersecurity  
program

against cyber  
attacks

Book  
Description

After

scrutinizing

numerous

cybersecurity

strategies,

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Microsoft's former Global Chief Security Advisor in this book helps you understand the efficacy of popular cybersecurity strategies and more.

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Cybersecurity  
Threats,  
Malware  
Trends, and  
Strategies  
offers an  
unprecedented  
long-term view  
of the global  
threat  
landscape by  
examining the



twenty-year  
trend in  
vulnerability  
disclosures  
and  
exploitation,  
nearly a  
decade of  
regional  
differences in  
malware  
infections,

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the socio-economic factors that underpin them, and how global malware has evolved. This will give you further perspectives into malware protection for

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your  
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organization.

It also

examines

internet-based

threats that

CISOs should

be aware of.

The book will

provide you

with an

evaluation of

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the various cybersecurity strategies that have ultimately failed over the past twenty years, along with one or two that have actually worked. It

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will help  
executives and  
security and  
compliance  
professionals  
understand how  
cloud  
computing is a  
game changer  
for them. By  
the end of  
this book, you

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will know how  
to measure the  
effectiveness  
of your  
organization's  
cybersecurity  
strategy and  
the efficacy  
of the vendors  
you employ to  
help you  
protect your

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organization  
and yourself.

What you will  
learnDiscover  
cybersecurity  
strategies and  
the  
ingredients  
critical to  
their  
successImprove  
vulnerability

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management by  
reducing risks  
and costs for  
your organizat  
ionLearn how  
malware and  
other threats  
have evolved  
over the past  
decadeMitigate  
internet-based  
threats,



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phishing attacks, and malware distribution sites. Weigh the pros and cons of popular cybersecurity strategies of the past two decades. Implement and then

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measure the  
outcome of a  
cybersecurity  
strategy Learn  
how the cloud  
provides  
better  
security  
capabilities  
than on-  
premises IT en-  
vironments Who

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this book is  
for This book  
is designed to  
benefit  
engineers,  
leaders, or  
any  
professional  
with either a  
responsibility  
for cyber  
security

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within their organization, or an interest in working in this ever-growing field. Cyber-terrorism and corporate espionage are increasingly common and

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devastating  
threats,  
making trained  
network  
security  
professionals  
more important  
than ever. Wil  
son/Simpson/An  
till's HANDS-  
ON ETHICAL  
HACKING AND

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NETWORK  
DEFENSE, 4th  
edition,  
equips you  
with the  
knowledge and  
skills to  
protect  
networks using  
the tools and  
techniques of  
an ethical

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hacker. The authors explore the concept of ethical hacking and its practitioners -- explaining their importance in protecting

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corporate and government data -- and then deliver an in-depth guide to performing security testing.

Thoroughly updated, the text covers



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new security  
resources,  
emerging vulne  
rabilities and  
innovative  
methods to  
protect  
networks,  
mobile  
security consi  
derations,  
computer crime

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laws and penalties for illegal computer hacking. A final project brings many of the concepts together in a penetration testing exercise and

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report.  
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Learn to  
mitigate  
exploits,  
malware,  
phishing, and  
other social  
engineering  
attacks

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MoDELS 2007,  
Nashville,  
USA, September  
30 - October  
5, 2007,  
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Network  
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From  
Vulnerability  
to Patch

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and Endogenous  
Security  
Security  
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Platforms and  
Applications  
with Virtual  
Lab Access  
Windows XP

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Security  
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**This book presents recent advances in the field of distributed computing and machine learning, along with cutting-edge research in the**

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**field of Internet of  
Things (IoT) and  
blockchain in  
distributed  
environments. It  
features selected  
high-quality research  
papers from the  
First International  
Conference on  
Advances in  
Distributed  
Computing and**



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**Machine Learning  
(ICADCML 2020),  
organized by the  
School of  
Information  
Technology and  
Engineering, VIT,  
Vellore, India, and  
held on 30–31  
January 2020.**

**This new text  
provides students the  
knowledge and skills**

**they will need to compete for and succeed in the information security roles they will encounter straight out of college. This is accomplished by providing a hands-on immersion in essential system administration, service and**

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application  
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**installation and  
configuration,  
security tool use,  
TIG implementation  
and reporting. It is  
designed for an  
introductory course  
on IS Security  
offered usually as an  
elective in IS  
departments in 2 and  
4 year schools. It is**

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**not designed for  
security certification  
courses.**

**In its 4th edition,  
this book remains  
focused on  
increasing public  
awareness of the  
nature and motives  
of cyber vandalism  
and cybercriminals,  
the weaknesses  
inherent in**

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**cyberspace  
infrastructure, and  
the means available  
to protect ourselves  
and our society. This  
new edition aims to  
integrate security  
education and  
awareness with  
discussions of  
morality and ethics.  
The reader will gain  
an understanding of**

**how the security of information in general and of computer networks in particular, on which our national critical infrastructure and, indeed, our lives depend, is based squarely on the individuals who build the hardware**

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**and design and  
develop the software  
that run the  
networks that store  
our vital  
information.**

**Addressing security  
issues with ever-  
growing social  
networks are two  
new chapters:  
“Security of Mobile  
Systems” and**

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**“Security in the  
Cloud**

**Infrastructure.”**

**Instructors**

**considering this**

**book for use in a**

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**here.**

**Front Cover;**

**Dedication;**

**Embedded Systems**

**Security: Practical**



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**Methods for Safe  
and Secure  
Software and  
Systems  
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Organization;  
Approach;  
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Chapter 1 --**

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**Introduction to  
Embedded Systems  
Security; 1.1 What is  
Security?; 1.2 What  
is an Embedded  
System?;  
1.3 Embedded  
Security Trends;  
1.4 Security Policies;  
1.5 Security Threats;  
1.6 Wrap-up; 1.7 Key  
Points; 1.8  
Bibliography and**

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**Notes; Chapter 2 --  
Systems Software  
Considerations;  
2.1The Role of the  
Operating System;  
2.2Multiple  
Independent Levels  
of Security.  
Computer Network  
Security  
Securing Citrix  
XenApp Server in  
the Enterprise**

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**Game Theory and  
Machine Learning  
for Cyber Security  
Defense against the  
Black Arts  
Hands-On Ethical  
Hacking and  
Network Defense  
An Artificial  
Intelligence  
Approach**

This revised and  
updated second

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edition focuses on new risks, threats, and vulnerabilities associated with the Microsoft Windows operating system. Particular emphasis is placed on Windows XP, Vista, and 7 on the desktop, and Windows Server 2003 and 2008 versions. It highlights how to use tools and techniques

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to decrease risks arising from vulnerabilities in Microsoft Windows operating systems and applications. The book also includes a resource for readers desiring more information on Microsoft Windows OS hardening, application security, and incident

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management. Topics covered include: the Microsoft Windows Threat Landscape; Microsoft Windows security features; managing security in Microsoft Windows; hardening Microsoft Windows operating systems and applications; and security trends for Microsoft Windows

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This comprehensive

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guide exposes the security risks and vulnerabilities of computer networks and networked devices, offering advice on developing improved algorithms and best practices for enhancing system security. Fully revised and updated, this new edition embraces a broader view of

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computer networks that encompasses agile mobile systems and social networks. Features: provides supporting material for lecturers and students, including an instructor ' s manual, slides, solutions, and laboratory materials; includes both quick and more thought-provoking exercises

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at the end of each chapter; devotes an entire chapter to laboratory exercises; discusses flaws and vulnerabilities in computer network infrastructures and protocols; proposes practical and efficient solutions to security issues; explores the role of legislation, regulation, and law

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enforcement in maintaining computer and computer network security; examines the impact of developments in virtualization, cloud computing, and mobile systems. Until you can think like a bad guy and recognize the vulnerabilities in your system, you can't

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build an effective plan  
to keep your  
information secure.

The book helps you  
stay on top of the  
security game!

Secure Java

Foundations of  
Security

Upgrading, Deploying,  
Managing, and

Securing Windows 7

How Hackers Do

What They Do and



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# How to Protect against It

Advances in  
Distributed Computing  
and Machine Learning

***As technology  
has developed,  
computer hackers  
have become  
increasingly  
sophisticated,  
mastering the  
ability to hack***

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***into even the  
most  
impenetrable  
systems. The  
best way to  
secure a system  
is to understand  
the tools  
hackers use and  
know how to  
circumvent them.  
Defense against  
the Black Arts:  
How Hackers Do***

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***What They Do and  
How to Protect  
against It***

***provides hands-  
on instruction  
to a host of  
techniques used  
to hack into a  
variety of  
systems.***

***Exposing hacker  
methodology with  
concrete  
examples, this***

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***book shows you  
how to outwit  
computer  
predators at  
their own game.  
Among the many  
things you'll  
learn: How to  
get into a  
Windows  
operating system  
without having  
the username or  
password***

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***associated with  
passwords and  
how to keep them  
out of the hands  
of hackers How  
hackers use the  
techniques of  
computer  
forensic  
examiners to  
wreak havoc on  
individuals and  
companies Hiding***

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**one's IP address  
to avoid**

**detection**

**Manipulating**

**data to and from**

**a web page or**

**application for**

**nefarious**

**reasons How to**

**find virtually**

**anything on the**

**internet How**

**hackers research**

**the targets they**

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***plan to attack  
How network  
defenders  
collect traffic  
across the wire  
to indentify  
intrusions Using  
Metasploit to  
attack  
weaknesses in  
systems that are  
unpatched or  
have poorly  
implemented***

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***security measures The book profiles a variety of attack tools and examines how Facebook and other sites can be used to conduct social networking attacks. It also covers techniques***



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***utilized by  
hackers to  
attack modern  
operating  
systems, such as  
Windows 7,  
Windows Vista,  
and Mac OS X.  
The author  
explores a  
number of  
techniques that  
hackers can use  
to exploit***

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***physical access,  
network access,  
and wireless  
vectors. Using  
screenshots to  
clarify  
procedures, this  
practical manual  
uses step-by-  
step examples  
and relevant  
analogies to  
facilitate  
understanding,***

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***giving you an  
insider's view  
of the secrets  
of hackers.***

***This book  
constitutes the  
refereed  
proceedings of  
the 10th  
International  
Conference on  
Model Driven  
Engineering  
Languages and***

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Systems

*(formerly the  
UML series of  
conferences),  
MODELS 2007,  
held in  
Nashville, USA,  
September 30 -  
October 5, 2007.  
The 45 revised  
full papers were  
carefully  
reviewed and  
selected from*

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submissions. The  
papers are  
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topical  
sections.**

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**More than 90  
percent of  
individuals,**

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***students,  
educators,  
businesses,  
organizations,  
and governments  
use Microsoft  
Windows, which  
has experienced  
frequent attacks  
against its well-  
publicized  
vulnerabilities.  
Revised and  
updated to keep***

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*pace with this  
ever changing  
field, Security  
Strategies in  
Windows*

*Platforms and  
Applications,  
Second Edition  
focuses on new  
risks, threats,  
and  
vulnerabilities  
associated with  
the Microsoft*

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***Windows operating system. Particular emphasis is placed on Windows XP, Vista, and 7 on the desktop, and Windows Server 2003 and 2008 versions. It highlights how to use tools and***



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***techniques to decrease risks arising from vulnerabilities in Microsoft Windows operating systems and applications. The book also includes a resource for readers desiring more information***

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***on Microsoft  
Windows OS  
hardening,  
application  
security, and  
incident  
management. With  
its accessible  
writing style,  
and step-by-step  
examples, this  
must-have  
resource will  
ensure readers***

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*are educated on  
the latest*

*Windows security*

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*JONES & BARTLETT*

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*INFORMATION*

*SYSTEMS SECURITY*

*& ASSURANCE*

*SERIES! More*

*than 90 percent*

*of individuals,*

*students,*

*educators,*

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***businesses,  
organizations,  
and governments  
use Microsoft  
Windows, which  
has experienced  
frequent attacks  
against its well-  
publicized  
vulnerabilities.  
Written by an  
industry expert,  
Security  
Strategies in***

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***Windows  
Platforms and  
Applications  
focuses on new  
risks, threats,  
and  
vulnerabilities  
associated with  
the Microsoft  
Windows  
operating  
system.  
Particular  
emphasis is***

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*placed on  
Windows XP,  
Vista, and 7 on  
the desktop, and  
Windows Server  
2003 and 2008  
versions. It  
highlights how  
to use tools and  
techniques to  
decrease risks  
arising from  
vulnerabilities  
in Microsoft*

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***Windows  
operating  
systems and  
applications.  
The book also  
includes a  
resource for  
readers desiring  
more information  
on Microsoft  
Windows OS  
hardening,  
application  
security, and***

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***incident management. With its accessible writing style, and step-by-step examples, this must-have resource will ensure readers are educated on the latest Windows security strategies and techniques.***



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**Cyber Arms  
ICT:  
Applications and  
Social  
Interfaces  
Information  
Security and IT  
Risk Management  
Cybersecurity  
Threats, Malware  
Trends, and  
Strategies  
Computer  
Security and**

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Penetration  
Testing

*Advances in  
Reliability and  
System*

*Engineering*

*Citrix*

*Presentation*

*Server allows*

*remote users*

*to work off a*

*network server*

*as if they*

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*weren't  
remote. That  
means:*

*Incredibly  
fast access to  
data and  
applications  
for users, no  
third party  
VPN  
connection,  
and no latency*

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*issues. All of these features make Citrix Presentation Server a great tool for increasing access and productivity for remote users.*

*Unfortunately,*

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Vulnerabilities

*these same features make Citrix just as dangerous to the network it's running on. By definition, Citrix is granting remote users direct access*

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Vulnerabilities  
*to corporate s  
ervers?..achie*

*ving this type*

*of access is*

*also the holy*

*grail for*

*malicious*

*hackers. To*

*compromise a*

*server running*

*Citrix*

*Presentation*

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Operating System  
Server, a  
Vulnerabilities

*hacker need  
not penetrate  
a heavily  
defended  
corporate or  
government  
server. They  
can simply  
compromise the  
far more  
vulnerable*

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Operating System

*laptop, remote  
office, or*

*home office of*

*any computer*

*connected to*

*that server by*

*Citrix*

*Presentation*

*Server. All of*

*this makes*

*Citrix*

*Presentation*



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Vulnerabilities

*Server a high-value target for malicious hackers. And although it is a high-value target, Citrix Presentation Servers and remote workstations are often*

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Vulnerabilities

*relatively  
easily hacked,  
because they  
are often  
times deployed  
by overworked  
system  
administrators  
who haven't  
even  
configured the  
most basic*

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Operating System  
**security**  
**Vulnerabilities**  
**features**

*offered by  
Citrix. "The  
problem, in  
other words,  
isn't a lack  
of options for  
securing  
Citrix  
instances; the  
problem is*

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Operating System  
that  
Vulnerabilities

administrators  
aren't using  
them." (eWeek,  
October 2007).

In support of  
this assertion  
Security  
researcher  
Petko D.

Petkov, aka  
"pdp", said in

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Operating System  
Vulnerabilities

*an Oct. 4  
posting that  
his recent  
testing of  
Citrix  
gateways led  
him to "tons"  
of "wide-open"  
Citrix  
instances,  
including 10  
on government*

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*domains and  
four on*

*military*

*domains. \* The  
most*

*comprehensive  
book published  
for system*

*administrators*

*providing step-  
by-step*

*instructions*

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for a secure  
Citrix  
Vulnerabilities

*Presentation*

*Server. \**

*Special*

*chapter by*

*Security*

*researcher*

*Petko D.*

*Petkov'aka*

*"pdp detailing*

*tactics used*

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Vulnerabilities

*by malicious  
hackers to  
compromise  
Citrix  
Presentation  
Servers. \**  
*Companion Web  
site contains  
custom Citrix  
scripts for  
administrators  
to install,*



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configure, and  
Vulnerabilities  
troubleshoot  
Citrix  
Presentation  
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**A**  
*comprehensive  
textbook that  
introduces  
students to  
current  
information*

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*practices and  
prepares them  
for various  
related certifi-  
cations.*

*Revised and  
updated to  
keep pace with  
this ever  
changing  
field,*

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*Strategies in  
Windows  
Platforms and  
Applications,  
Third Edition  
focuses on new  
risks,  
threats, and v  
ulnerabilities  
associated  
with the*

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**Microsoft  
Windows**

*operating  
system,  
placing a  
particular  
emphasis on  
Windows 10,  
and Windows  
Server 2016  
and 2019. The  
Third Edition*

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*highlights how  
to use tools  
and techniques  
to decrease  
risks arising  
from vulnerabi  
lities in  
Microsoft  
Windows  
operating  
systems and  
applications.*

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*The book also includes a resource for readers desiring more information on Microsoft Windows OS hardening, application security, and incident*

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**management.**

**With its  
accessible  
writing style,  
and step-by-  
step examples,  
this must-have  
resource will  
ensure readers  
are educated  
on the latest  
Windows**

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security  
Vulnerabilities

*strategies and  
techniques.*

*A three phase  
audit of East  
Tennessee  
State  
University's  
administrative  
computer  
network was  
conducted*



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*during Fall  
2001, Spring  
2002, and  
January 2004.  
Nmap and  
Nessus were  
used to  
collect the  
vulnerability  
data. Analysis  
discovered an  
average of*

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*3.065 critical vulnerabilities per host with a low of 2.377 in Spring 2001 to a high of 3.694 in Fall 2001. The number of unpatched Windows*

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Vulnerabilities

*operating  
system vulnera  
bilities,  
which*

*accounted for  
over 75% of  
these critical  
vulnerabilitie  
s, strongly  
argues for the  
need of an  
automated*

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patch  
Vulnerabilities

*deployment  
system for the  
approximately  
3,000 Windows-  
based systems  
at ETSU.*

*Cyberspace  
Mimic Defense  
Information  
Security  
Management*

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*Handbook,  
Fifth Edition  
Information  
Security  
Illuminated  
ICCWS 2018  
13th  
International  
Conference on  
Cyber Warfare  
and Security  
Hacking For*

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**Secure 642-637**

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These  
proceedings  
represent the  
work of  
researchers  
participating in  
the 13th  
International

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Conference on  
Cyber Warfare  
and Security  
(ICCWS 2018)

which is being  
hosted this year  
by the National  
Defense

University in  
Washington DC,  
USA on 8-9 March  
2018.

Seven Deadliest  
Microsoft

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Attacks explores some of the deadliest attacks made against Microsoft software and networks and how these attacks can impact the confidentiality, integrity, and availability of the most closely



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guarded company secrets. If you need to keep up with the latest hacks, attacks, and exploits effecting Microsoft products, this book is for you. It pinpoints the most dangerous hacks and exploits

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specific to  
Microsoft  
applications,  
laying out the  
anatomy of these  
attacks  
including how to  
make your system  
more secure. You  
will discover  
the best ways to  
defend against  
these vicious  
hacks with step-

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by-step  
instruction and  
learn techniques  
to make your  
computer and  
network  
impenetrable.  
The book  
consists of  
seven chapters  
that cover the  
seven deadliest  
attacks against  
Microsoft

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software and  
networks:  
attacks against  
Windows  
passwords;  
escalation  
attacks; stored  
procedure  
attacks; mail  
service attacks;  
client-side  
ActiveX and  
macro attacks;  
Web service

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attacks; and multi-tier attacks. Each chapter provides an overview of a single Microsoft software product, how it is used, and some of the core functionality behind the software.

Furthermore,

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each chapter explores the anatomy of attacks against the software, the dangers of an attack, and possible defenses to help prevent the attacks described in the scenarios. This book will be a

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valuable resource for those responsible for oversight of network security for either small or large organizations. It will also benefit those interested in learning the details behind

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attacks against  
Microsoft

infrastructure,  
products, and  
services; and  
how to defend  
against them.

Network  
administrators  
and integrators  
will find value  
in learning how  
attacks can be  
executed, and



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knowledge gained  
from this book  
into improving  
existing  
deployment and  
integration  
practices.

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and ActiveX

Internet

Information

Services (IIS) -Web

Service Attacks S

harePoint-Multi-

tier Attacks

This book

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uncertain threats, which are caused by unknown attacks based on unknown vulnerabilities or backdoors in the information system or control devices and software/hardware.

Generalized

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robustness  
control  
architecture and  
the mimic  
defense  
mechanisms are  
presented in  
this book, which  
could change  
“the easy-to-  
attack and diffi-  
cult-to-defend  
game” in  
cyberspace. The

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endogenous  
uncertain  
effects from the  
targets of the s  
oftware/hardware  
based on this  
architecture can  
produce magic  
“mimic defense  
fog”, and  
suppress in a  
normalized mode  
random  
disturbances

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caused by physical or logic elements, as well as effects of non-probability disturbances brought by uncertain security threats. Although progress has been made in the

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current security  
defense theories  
in cyberspace  
and various  
types of  
security  
technologies  
have come into  
being, the  
effectiveness of  
such theories  
and technologies  
often depends on  
the scale of the

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prior knowledge  
of the  
attackers, on  
the part of the  
defender and on  
the acquired  
real-timing and  
accuracy  
regarding the  
attackers'  
behavior  
features and  
other  
information.



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Hence, there lacks an efficient active defense means to deal with uncertain security threats from the unknown. Even if the bottom-line defense technologies such as encrypted

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verification are adopted, the security of hardware/software products cannot be quantitatively designed, verified or measured. Due to the “loose coupling” relationship and border defense

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modes between  
the defender and  
the protected  
target, there  
exist

insurmountable  
theoretical and  
technological  
challenges in  
the protection  
of the defender  
and the target  
against the  
utilization of

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internal vulnerabilities or backdoors, as well as in dealing with attack scenarios based on backdoor-activated collaboration from both inside and outside, no matter how augmented or accumulated

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protective  
measures are  
adopted.

Therefore, it is  
urgent to jump  
out of the  
stereotyped  
thinking based  
on conventional  
defense theories  
and  
technologies,  
find new  
theories and

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methods to effectively reduce the utilization of vulnerabilities and backdoors of the targets without relying on the priori knowledge and feature information, and to develop new technological

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means to offset  
uncertain  
threats based on  
unknown  
vulnerabilities  
and backdoors  
from an  
innovative  
perspective.

This book  
provides a  
solution both in  
theory and  
engineering

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implementation to the difficult problem of how to avoid the uncontrollability of product security caused by globalized marketing, COTS and non-trustworthy software/hardware sources. It has been proved that



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this  
revolutionary  
enabling  
technology has  
endowed software  
/hardware  
products in  
IT/ICT/CPS with  
endogenous  
security  
functions and  
has overturned  
the attack  
theories and

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methods based on hardware/software design defects or resident malicious codes. This book is designed for educators, theoretical and technological researchers in cyber security and autonomous control and for

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technicians who are engaged in the research on developing a new generation of software/hardware products by using endogenous security enabling technologies and for other product users.

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Postgraduates in IT/ICT/CPS/ICS will discover that (as long as the law of “structure determines the nature and architecture determines the security is properly used), the problem of software/hardware

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design defects  
or malicious  
code embedding  
will become the  
swelling of  
Achilles in the  
process of infor  
mationization  
and will no  
longer haunt  
Pandora's box in  
cyberspace.  
Security and  
opening-up,

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advanced  
progressiveness  
and  
controllability  
seem to be  
contradictory,  
but there can be  
theoretically  
and  
technologically  
unified  
solutions to the  
problem.

This textbook is

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for courses in  
cyber security  
education that  
follow National  
Initiative for  
Cybersecurity  
Education (NICE)  
KSAs work roles  
and framework,  
that adopt the  
Competency-Based  
Education (CBE)  
method. The book  
follows the CBT

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(KSA) general framework, meaning each chapter contains three sections, knowledge and questions, and skills/labs for Skills and Abilities. The author makes an explicit balance between knowledge and



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skills material  
in information  
security, giving  
readers  
immediate  
applicable  
skills. The book  
is divided into  
seven parts:  
Securely  
Provision;  
Operate and  
Maintain;  
Oversee and

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Govern; Protect  
and Defend;  
Analysis;  
Operate and  
Collect;  
Investigate. All  
classroom  
materials (in  
the book an  
ancillary)  
adhere to the  
NICE framework.  
Mirrors classes  
set up by the

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National Initiative for Cybersecurity Education (NICE) Adopts the Competency-Based Education (CBE) method of teaching, used by universities, corporations, and in government training

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that provide  
skill-based  
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information  
security  
standards, risk  
response and  
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more

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Computer Network  
Security in  
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the-minute**

**coverage,**

**COMPUTER**

**SECURITY AND**

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**and why people  
attack computers**

**and networks--eq**

**uipping readers**

**with the**

**knowledge and**

**techniques to**

**successfully**

**combat hackers.**

**This edition also**

**includes new**

**emphasis on**

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in its approach,  
this  
comprehensive  
resource teaches  
the skills needed  
to go from  
hoping a system  
is secure to  
knowing that it is.  
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**referenced within  
the product  
description or  
the product text  
may not be  
available in the  
ebook version.  
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survey of  
computer  
network security  
concepts,**

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practices. This  
authoritative  
volume provides  
an optimal  
description of the  
principles and  
applications of  
computer  
network security  
in particular, and  
cyberspace**

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general. The  
book is  
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security  
conditions  
surrounding  
computer**

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**networks; Part II  
builds from there  
and exposes  
readers to the  
prevailing  
security situation  
based on a  
constant security  
threat; and Part  
III - the core -  
presents readers  
with most of the**

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**best practices  
and solutions  
currently in use.  
It is intended as  
both a teaching  
tool and  
reference. This  
broad-ranging  
text/reference  
comprehensively  
surveys  
computer**



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**network security concepts, methods, and practices and covers network security tools, policies, and administrative goals in an integrated manner. It is an essential security**

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**resource for  
undergraduate or  
graduate study,  
practitioners in  
networks, and  
professionals  
who develop and  
maintain secure  
computer  
network systems.  
Software  
developers need**

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**to worry about security as never before. They need clear guidance on safe coding practices, and that's exactly what this book delivers. The book does not delve deep into theory, or rant**

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Vulnerabilities  
**about the politics  
of security.**

**Instead, it clearly  
and simply lays  
out the most  
common threats  
that**

**programmers  
need to defend  
against. It then  
shows**

**programmers**

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**how to make  
their defense.**

**The book takes a  
broad focus,  
ranging over SQL  
injection, worms  
and buffer  
overflows,  
password  
security, and  
more. It sets  
programmers on**

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successfully  
defending  
against the entire  
gamut of security  
threats that they  
might face.**

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presents original  
studies  
describing the  
latest research**

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reliability and  
systems  
engineering. It  
helps the reader  
identifying gaps  
in the current  
knowledge and  
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areas for further**

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field. Among  
others, this book  
covers reliability  
measures,  
reliability  
assessment of  
multi-state  
systems,  
optimization of  
multi-state  
systems,**



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state systems,**

**new**

**computational  
techniques**

**applied to multi-  
state systems**

**and probabilistic  
and non-**

**probabilistic  
safety**

**assessment.**

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Tasks help you  
drill on key  
concepts you must  
know thoroughly.  
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focuses  
specifically on the

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tips, helping you  
identify areas of  
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succeed on the  
exam the first time.

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topics on the  
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and foundation  
protection

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802.1X and

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networking

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routed data plane

security Cisco IOS

control plane

security Cisco IOS

management

plane security NAT

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released in  
October 2001,  
brought new  
features to  
improve the work  
environment  
throughout  
organizations. The  
purpose of this

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research is to determine if Windows XP, when used as a workstation operating system in domain-based networks, provides adequate security policy enforcement for organizations. In this research we

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performed a  
security analysis of

the Windows XP

operating system,

assessed its

vulnerabilities and

made

recommendations

for XP

configurations and

use as an

extension of

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enterprise network,

In order to analyze

Windows XP, we

set up a Windows

2000 Server based-

domain. Windows

XP was installed

on one of the

workstations in the

domain. In this lab

environment, the

security

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architecture and all  
new security

features of

Windows XP have  
been analyzed.

Then we made  
vulnerability scans  
to assess the

security of

Windows XP in  
three

configurations:

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after clean installation, after applying current patches and updates, and after applying security templates.

Windows XP comes with selectable built-in templates. A new security template

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was created by combining the best of these templates. The new template also contains additional security settings not found in the built-in templates. This study provides recommendations for secure



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Windows XP  
configuration in  
Windows 2000  
domains.

Move beyond the  
foundations of  
machine learning  
and game theory  
in cyber security to  
the latest research  
in this cutting-edge  
field In Game

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Theory and  
Machine Learning  
for Cyber Security,  
a team of expert  
security  
researchers  
delivers a  
collection of  
central research  
contributions from  
both machine  
learning and game

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theory applicable  
to cybersecurity.

The distinguished  
editors have  
included resources  
that address open  
research questions  
in game theory  
and machine  
learning applied to  
cyber security  
systems and

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examine the strengths and limitations of current game theoretic models for cyber security. Readers will explore the vulnerabilities of traditional machine learning algorithms and how they can

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be mitigated in an adversarial machine learning approach. The book offers a comprehensive suite of solutions to a broad range of technical issues in applying game theory and machine learning

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to solve cyber  
security

challenges.

Beginning with an  
introduction to  
foundational  
concepts in game  
theory, machine  
learning, cyber  
security, and cyber  
deception, the  
editors provide

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readers with  
resources that  
discuss the latest  
in hypergames,  
behavioral game  
theory, adversarial  
machine learning,  
generative  
adversarial  
networks, and  
multi-agent  
reinforcement

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learning. Readers will also enjoy: A thorough introduction to game theory for cyber deception, including scalable algorithms for identifying stealthy attackers in a game theoretic framework,



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honeypot  
allocation over  
attack graphs, and  
behavioral games  
for cyber  
deception An  
exploration of  
game theory for  
cyber security,  
including  
actionable game-  
theoretic

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adversarial  
intervention

detection against  
persistent and  
advanced threats

Practical

discussions of  
adversarial  
machine learning  
for cyber security,  
including  
adversarial

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machine learning  
in 5G security and  
machine learning-  
driven fault

injection in cyber-  
physical systems

In-depth

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generative models  
for cyber security

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researchers,

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students, and  
experts in the  
fields of computer  
science and  
engineering,  
Game Theory and  
Machine Learning  
for Cyber Security  
is also an  
indispensable  
resource for  
industry

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professionals,  
military personnel,  
researchers,  
faculty, and  
students with an  
interest in cyber  
security.

This book will raise  
awareness on  
emerging  
challenges of  
Alempowered

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cyber arms used in  
Vulnerabilities  
weapon systems

and stockpiled in

the global cyber

arms race. Based

on real life events,

it provides a

comprehensive

analysis of cyber

offensive and

defensive

landscape,

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analyses the cyber

arms evolution

from prank

malicious codes

into lethal

weapons of mass

destruction,

reveals the scale

of cyber offensive

conflicts, explores

cyber warfare

mutation, warns

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about cyber arms  
race escalation  
and use of Artificial  
Intelligence (AI) for  
military purposes.  
It provides an  
expert insight into  
the current and  
future malicious  
and destructive  
use of the evolved  
cyber arms, AI and



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robotics, with emphasis on cyber threats to CBRNe and critical infrastructure. The book highlights international efforts in regulating the cyber environment, reviews the best practices of the

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leading cyber  
powers and their  
controversial

approaches,  
recommends

responsible state  
behaviour. It also  
proposes

information  
security and cyber  
defence solutions  
and provides

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definitions for selected conflicting cyber terms. The disruptive potential of cyber tools merging with military weapons is examined from the technical point of view, as well as legal, ethical, and political

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7 Administrator's

Reference

Embedded

Systems Security

What Every

Programmer

Needs to Know

The NICE Cyber

Security

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Framework  
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Information and  
Communication  
Technology for  
Competitive  
Strategies (ICTCS  
2020)  
Security Strategies in  
Windows Platforms  
and  
Applications Jones &  
Bartlett Publishers

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This book will take readers from the discovery of vulnerabilities and the creation of the corresponding exploits, through a complete security assessment, all the way through deploying patches against these

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vulnerabilities to protect their networks. This is unique in that it details both the management and technical skill and tools required to develop an effective vulnerability management system. Business case studies

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and real world vulnerabilities are used through the book. It starts by introducing the reader to the concepts of a vulnerability management system. Readers will be provided detailed timelines of exploit



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development, vendors' time to patch, and corporate path installations. Next, the differences between security assessments and penetration tests will be clearly explained along with best practices for conducting both.

Next, several case studies from different industries will illustrate the effectiveness of varying vulnerability assessment methodologies. The next several chapters will define the steps of a vulnerability assessment

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including: defining objectives, identifying and classifying assets, defining rules of engagement, scanning hosts, and identifying operating systems and applications. The next several chapters provide detailed

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instructions and examples for differentiating vulnerabilities from configuration problems, validating vulnerabilities through penetration testing. The last section of the book provides best practices for

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vulnerability  
Vulnerabilities

management and  
remediation. \*

Unique coverage  
detailing both the  
management and  
technical skill and  
tools required to  
develop an effective  
vulnerability  
management system

\* Vulnerability

*Page 237/271*

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Vulnerabilities  
management is rated  
the #2 most pressing

concern for security

professionals in a

poll conducted by

Information Security

Magazine \* Covers

in the detail the

vulnerability

management

lifecycle from

discovery through

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patch.  
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This professional guide and reference examines the challenges of assessing security vulnerabilities in computing infrastructure. Various aspects of vulnerability assessment are

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covered in detail,  
including recent  
advancements in  
reducing the  
requirement for  
expert knowledge  
through novel  
applications of  
artificial intelligence.  
The work also offers  
a series of case  
studies on how to



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Vulnerabilities  
develop and perform  
vulnerability

assessment

techniques using

start-of-the-art

intelligent

mechanisms. Topics

and features:

provides tutorial

activities and thought-

provoking questions

in each chapter,

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together with numerous case studies; introduces the fundamentals of vulnerability assessment, and reviews the state of the art of research in this area; discusses vulnerability assessment frameworks,

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including  
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frameworks for  
industrial control and  
cloud systems;  
examines a range of  
applications that  
make use of artificial  
intelligence to  
enhance the  
vulnerability  
assessment  
processes; presents

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visualisation techniques that can be used to assist the vulnerability assessment process. In addition to serving the needs of security practitioners and researchers, this accessible volume is also ideal for students and

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instructors seeking a primer on artificial intelligence for vulnerability assessment, or a supplementary text for courses on computer security, networking, and artificial intelligence.

Microsoft Windows  
7 Administrators

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Reference covers various aspects of Windows 7 systems, including its general information as well as installation and upgrades. This reference explains how to deploy, use, and manage the operating system. The book is divided

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into 10 chapters.

Chapter 1 introduces the Windows 7 and the rationale of releasing this operating system. The next chapter discusses how an administrator can install and upgrade the old operating system from

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Windows Vista to  
Windows 7. The  
deployment of  
Windows 7 in an  
organization or other  
environment is then  
explained. It also  
provides the  
information needed  
to deploy Windows 7  
easily and quickly  
for both the



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administrator and  
Vulnerabilities  
end users.

Furthermore, the book provides the features of Windows 7 and the ways to manage it properly. The remaining chapters discuss how to secure Windows 7, as well as how to troubleshoot it. This

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book will serve as a reference and guide for those who want to utilize Windows 7. Covers Powershell V2, Bitlocker, and mobility issues Includes comprehensive details for configuration, deployment, and

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troubleshooting  
Vulnerabilities

Consists of content  
written for system  
administrators by  
system

administrators

Proceedings of  
ICADCML 2020

Computer Network  
Security and Cyber  
Ethics, 4th ed.

Practical Methods

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for Safe and Secure  
Software and  
Systems

Development

**This book  
contains the  
best selected  
research  
papers  
presented at  
ICTCS 2020:  
Fifth**

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**International  
Conference on  
Information  
and  
Communication  
Technology for  
Competitive  
Strategies.  
The conference  
was held at  
Jaipur,  
Rajasthan,**

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**India, during  
11–12 December**

**2020. The book**

**covers state-**

**of-the-art as**

**well as**

**emerging**

**topics**

**pertaining to**

**ICT and**

**effective**

**strategies for**

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**its  
implementation  
for  
engineering  
and managerial  
applications.  
This book  
contains  
papers mainly  
focused on ICT  
for  
computation,**

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**algorithms and  
data**

**analytics, and  
IT security.**

**This handbook  
covers the ten  
domains of the  
Information  
Security**

**Common Body of  
Knowledge. It  
is designed to**



**empower the  
security  
professional  
and the chief  
information  
officer with  
information  
such that they  
can do their  
duty, protect  
the  
information**

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**assets of  
their  
organizations.  
Most security  
books on Java  
focus on  
cryptography  
and access  
control, but  
exclude key  
aspects such  
as coding**

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**practices,  
logging, and  
web  
application  
risk  
assessment.  
Encapsulating  
security  
requirements  
for web  
development  
with the Java**

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**programming  
platform,  
Secure Java:  
For Web  
Application  
Development  
covers secure  
programming,  
risk  
assessment,  
and threat mod  
eling—explaini**

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**ng how to  
integrate  
these  
practices into  
a secure  
software  
development  
life cycle.  
From the risk  
assessment  
phase to the  
proof of**

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**concept phase,  
the book**

**details a**

**secure web**

**application**

**development**

**process. The**

**authors**

**provide in-**

**depth**

**implementation**

**guidance and**

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**best practices  
for access**

**control,**

**cryptography,**

**logging,**

**secure coding,**

**and**

**authentication**

**and**

**authorization**

**in web**

**application**

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**development.  
Discussing the  
latest  
application  
exploits and v  
ulnerabilities  
, they examine  
various  
options and  
protection  
mechanisms for  
securing web**



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**applications  
against these  
multifarious  
threats. The  
book is  
organized into  
four sections:  
Provides a  
clear view of  
the growing  
footprint of  
web**

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**applications  
Explores the  
foundations of  
secure web  
application  
development  
and the risk  
management  
process Delves  
into tactical  
web  
application**

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**security  
development  
with Java EE  
Deals  
extensively  
with security  
testing of web  
applications  
This complete  
reference  
includes a  
case study of**

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**an e-commerce  
company facing  
web**

**application  
security**

**challenges, as  
well as**

**specific**

**techniques for  
testing the**

**security of  
web**

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**applications.**

**Highlighting s**

**tate-of-the-**

**art tools for**

**web**

**application**

**security**

**testing, it**

**supplies**

**valuable**

**insight on how**

**to meet**

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**important  
security  
compliance  
requirements,  
including PCI-  
DSS, PA-DSS,  
HIPAA, and  
GLBA. The book  
also includes  
an appendix  
that covers  
the**

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**application  
security  
guidelines for  
the payment  
card industry  
standards.**