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password replay. These attacks are not mutually exclusive and were chosen because they help illustrate different aspects of network security. The principles on which they rely are unlikely to vanish any time soon, and they allow for the

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possibility of gaining something of interest to the attacker, from money to high-value data. This book is intended to provide practical, usable information.

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attack that works today may (hopefully) not work tomorrow. It is more important, then, to understand the principles on which the attacks and exploits are based in order to properly plan either a network attack or a network defense.

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attack, showing  
where hackers  
can have the  
upper hand in a  
live conflict and  
how defenders  
can outsmart  
them in this  
adversarial  
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*and mouse. This book contains two subsections in each chapter, specifically focusing on the offensive and defensive teams. It begins by introducing you to adversarial*

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conflict where  
you will explore  
the core  
principles of  
deception,  
humanity,  
economy, and  
more about hum  
an-on-human

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Countermeasures  
motivations and  
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means, and  
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learn to tamper  
with them to  
hinder their  
ability to detect  
your presence.  
Finally, you will  
learn how to  
gain an  
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*through  
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research and  
thoughtfully  
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book, you will  
have achieved a  
solid  
understanding  
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from both an  
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how to  
implement  
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tables on the

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also learn a lot  
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knowledge of  
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knowledge,  
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testing, and  
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has become  
more pervasive  
and more  
complex in  
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is difficult to  
regulate, as it  
holds an  
ambiguous

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attacks*

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of testing in  
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on how to  
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outside attacker  
in order to*

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about liability  
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*a penetration  
test on an  
organization's  
network, from  
creating a test  
plan to  
performing  
social  
engineering and  
host  
reconnaissance  
to performing*

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*simulated  
attacks on both  
wired and  
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hacking, as it  
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demonstrates  
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how to detect an  
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attack on a live  
network. By  
detailing the  
method of an  
attack and how  
to spot an  
attack on your  
network, this  
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guard against  
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configure,  
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thwart these  
attacks and how  
to harden a  
system to  
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NSM. Network  
security  
monitoring is  
based on the  
principle that  
prevention  
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intrusion that  
can be the  
difference  
between a  
small incident  
and a major  
disaster. The  
book follows  
the three  
stages of the  
NSM cycle:  
collection,**



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analysis. As you  
progress  
through each  
section, you  
will have access  
to insights from  
seasoned NSM  
professionals  
while being  
introduced to  
relevant,  
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complete with  
sample data. If  
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**with its**  
**technological**  
**advancements**  
**and massive**

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**innovations, is building the idea of inter-connectivity among everyday life objects. With an explosive growth in the number of Inter net-connected devices, the implications of**

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**the idea of IoT  
on enterprises,  
individuals, and  
society are  
huge. IoT is  
getting  
attention from  
both academia  
and industry  
due to its  
powerful real-  
time  
applications**



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**that raise  
demands to  
understand the  
entire spectrum  
of the field.**

**However, due  
to increasing  
security issues,  
safeguarding  
the IoT  
ecosystem has  
become an  
important**

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**concern. With  
devices and  
information  
becoming more  
exposed and  
leading to  
increased  
attack  
possibilities,  
adequate  
security  
measures are  
required to**

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And  
leverage the  
benefits of this  
emerging  
concept.

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**Internet of  
Things  
Security:  
Principles,  
Applications,  
Attacks, and Co  
untermeasures  
is an extensive  
source that**

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And  
**aims at  
establishing an  
understanding  
of the core  
concepts of IoT  
among its  
readers and the  
challenges and  
corresponding c  
ountermeasure  
s in the field.**

**Key features:  
Containment of**

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**theoretical  
aspects, as well  
as recent  
empirical  
findings  
associated with  
the underlying  
technologies  
Exploration of  
various  
challenges and  
trade-offs  
associated with**

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**the field and  
approaches to  
ensure security,  
privacy, safety,  
and trust  
across its key  
elements Vision  
of exciting  
areas for future  
research in the  
field to enhance  
the overall  
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**This book is  
suitable for  
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professionals  
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explores  
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terms and

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**examines what  
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manage an  
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systems and as  
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