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*5 Assurance In
The Cloud
Using Cobit 5*

"This book presents a collection of diverse perspectives on cloud computing and its vital role in all components of

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5
organizations,
improving the
understanding of
cloud computing
and tackling related
concerns such as
change
management,
security, processing
approaches, and
much
more"--Provided by
publisher.

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5

This unique comprehensive collection presents the latest multi-disciplinary research in strategic digital outsourcing and digital business strategy, providing a management decision-making framework for successful long-

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5
term relationships
and collaboration
based on trust and
governance. Part I:
Innovation in
Business Models
and Digital
Outsourcing takes
an internal company
perspective on
strategic digital
outsourcing, and the
importance of trust

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in outsourcing
relationships. Part II:

5
Inter-organizational
Relations and
Transfer explores
topics underpinning
service recipients
and service
suppliers[]
relationships
including
governance,
knowledge transfer

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and legal aspects.
Part III: From On-
5 site to Cloud
discusses the
challenges
presented by
moving to a cloud
environment,
including risks and
controls. Part IV:
Developments to
Come explores
emerging

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5
technologies and
their impact on
digital outsourcing
such as blockchain
and the Internet of
Things. In a fiercely
competitive market,
companies must
transform their
business models
and embrace new
approaches. This
Companion

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5
provides a
comprehensive
management

overview of strategic
digital outsourcing
and is an invaluable
resource for
researchers and
advanced students
in business and
strategic information
management, as
well as a timely

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resource for
systems
professionals.

With the rapid growth of Cloud computing, the size of Cloud data is expanding at a dramatic speed. A huge amount of data is generated and processed by Cloud applications,

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putting a higher demand on cloud storage. While data reliability should already be a requirement, data in the Cloud needs to be stored in a highly cost-effective manner. This book focuses on the trade-off between data storage cost and

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Cloud Using Cobit
5
data reliability
assurance for big
data in the Cloud.

Throughout the
whole Cloud data
lifecycle, four major
features are
presented: first, a
novel generic data
reliability model for
describing data
reliability in the
Cloud; second, a

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5

minimum replication
calculation
approach for
meeting a given
data reliability
requirement to
facilitate data
creation; third, a
novel cost-effective
data reliability
assurance
mechanism for big
data maintenance,

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5

which could dramatically reduce the storage space needed in the Cloud; fourth, a cost-effective strategy for facilitating data creation and recovery, which could significantly reduce the energy consumption during data transfer.

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5
Captures data
reliability with
variable disk rates
and compares
virtual to physical
disks Offers
methods for
reducing cloud-
based storage cost
and energy
consumption
Presents a minimum
replication

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Cloud Using Cobit

benchmark for data
reliability

5

requirements to
evaluate various
replication-based
data storage
approaches

As the Web grows
and expands into
ever more remote
parts of the world,
the availability of
resources over the

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Internet increases exponentially.

Making use of this widely prevalent tool, organizations and individuals can share and store knowledge like never before. Cloud Technology:
Concepts,
Methodologies,
Tools, and

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5
Applications
investigates the
latest research in
the ubiquitous Web,
exploring the use of
applications and
software that make
use of the Internet's
anytime, anywhere
availability. By
bringing together
research and ideas
from across the

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Assurance In The
globe, this
publication will be of

5
use to computer
engineers, software
developers, and end
users in business,
education,
medicine, and more.
Globally recognized
and backed by the
Cloud Security
Alliance (CSA) and
the (ISC)2 the
Page 18/276

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CCSP credential is the ideal way to match marketability and credibility to your cloud security skill set. The Official (ISC)2® Guide to the CCSPSM CBK® is your ticket for expert insight through the 6 CCSP domains. You will find step-by-step

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5
guidance through
real-life scenarios,
illustrated examples,
tables, best
practices, and more.
Sample questions
help you reinforce
what you have
learned and prepare
smarter. Easy-to-
follow content
guides you through □
Major topics and

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subtopics within the
6 domains ▯

Detailed description
of exam format ▯

Exam registration
and administration
policies Reviewed
by cloud security
experts, and

developed by
(ISC)2, this is your
study guide to fully
preparing for the

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5
CCSP and
reaffirming your
unique cloud

security skills. Get
ready for the next
step in your career
with Official (ISC)2
Guide to the CCSP
CBK.

Well-known security
experts decipher the
most challenging
aspect of cloud

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5
computing-security
Cloud computing
allows for both large
and small
organizations to
have the opportunity
to use Internet-
based services so
that they can reduce
start-up costs, lower
capital
expenditures, use
services on a pay-

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5

as-you-use basis,
access applications
only as needed, and
quickly reduce or
increase capacities.
However, these
benefits are
accompanied by a
myriad of security
issues, and this
valuable book
tackles the most
common security

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5
challenges that
cloud computing
faces. The authors
offer you years of
unparalleled
expertise and
knowledge as they
discuss the
extremely
challenging topics of
data ownership,
privacy protections,
data mobility, quality

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5
of service and
service levels,
bandwidth costs,
data protection, and
support. As the
most current and
complete guide to
helping you find
your way through a
maze of security
minefields, this book
is mandatory
reading if you are

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Assurance In The
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5
involved in any
aspect of cloud
computing.

Coverage Includes:

Cloud Computing

Fundamentals

Cloud Computing

Architecture Cloud

Computing Software

Security

Fundamentals

Cloud Computing

Risks Issues Cloud

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5
Computing Security
Challenges Cloud
Computing Security
Architecture Cloud
Computing Life
Cycle Issues Useful
Next Steps and
Approaches

This book mainly
focuses on cloud
security and high
performance
computing for cloud

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5
auditing. The book
discusses emerging
challenges and
techniques
developed for high
performance
semantic cloud
auditing, and
presents the state of
the art in cloud
auditing, computing
and security
techniques with

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5
focus on technical
aspects and
feasibility of auditing
issues in federated
cloud computing
environments. In
summer 2011, the
United States Air
Force Research
Laboratory (AFRL)
CyberBAT Cloud
Security and
Auditing Team

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initiated the exploration of the cloud security challenges and future cloud auditing research directions that are covered in this book. This work was supported by the United States government funds from the Air Force Office of Scientific

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5
Research (AFOSR),
the AFOSR

5
Summer Faculty
Fellowship Program
(SFFP), the Air
Force Research
Laboratory (AFRL)
Visiting Faculty
Research Program
(VFRP), the
National Science
Foundation (NSF)
and the National

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5
Institute of Health
(NIH). All chapters
were partially

supported by the
AFOSR Information
Operations and
Security Program
extramural and
intramural funds

(AFOSR/RSL
Program Manager:
Dr. Robert
Herklotz). Key

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5
Features: · Contains surveys of cyber threats and security issues in cloud computing and presents secure cloud architectures · Presents in-depth cloud auditing techniques, federated cloud security architectures, cloud

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Cloud Using Cobit
5
access control
models, and access
assured information
sharing

technologies ·

Outlines a wide
range of challenges
and provides
solutions to manage
and control very
large and complex
data sets

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The Routledge

Companion to

Managing Digital

Outsourcing

Auditing Cloud

Computing

Building trust in the

cloud through

assurance and

accountability

Data Intensive

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Assurance In The Cloud Using Cobit Storage Services for Cloud Environments

5 *This open
access book
brings together
perspectives
from multiple
disciplines
including
psychology,
law, IS, and
computer
science on data*

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*privacy and
trust in the
cloud. Cloud
technology has
fueled rapid,
dramatic
technological
change,
enabling a
level of
connectivity
that has never
been seen*

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Assurance In The
Cloud Using Cobit
5
before in human
history.

However, this
brave new world
comes with
problems.

Several high-
profile cases
over the last
few years have
demonstrated
cloud
computing's

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*uneasy
relationship
with data
security and
trust. This
volume explores
the numerous
technological,
process and
regulatory
solutions
presented in
academic*

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5
literature as mechanisms for building trust in the cloud, including GDPR in Europe. The massive acceleration of digital adoption resulting from the COVID-19 pandemic is

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5
introducing new
and significant
security and
privacy threats
and concerns.

Against this
backdrop, this
book provides a
timely
reference and
organising
framework for
considering how

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5
*we will assure
privacy and
build trust in
such a hyper-
connected
digitally
dependent
world. This
book presents a
framework for
assurance and
accountability
in the cloud*

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5
and reviews the literature on trust, data privacy and protection, and ethics in cloud computing.

Federal Cloud Computing: The Definitive Guide for Cloud Service Providers,

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5
Second Edition
offers an in-
depth look at
topics
surrounding
federal cloud
computing
within the
federal
government,
including the
Federal Cloud
Computing

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Standards,
Security and
Privacy, and
Security
Automation. You
will learn the
basics of the
NIST risk
management
framework (RMF)
with a specific

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5
*focus on cloud
computing
environments,
all aspects of
the Federal
Risk and
Authorization
Management
Program
(FedRAMP)
process, and
steps for cost-
effectively*

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*implementing
the Assessment
and*

*Authorization
(A&A) process,
as well as
strategies for
implementing
Continuous
Monitoring,
enabling the
Cloud Service
Provider to*

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5
*address the
FedRAMP
requirement on
an ongoing
basis. This
updated edition
will cover the
latest changes
to FedRAMP
program,
including
clarifying
guidance on the*

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5
Providers to
achieve FedRAMP
compliance, an
expanded
discussion of
the new FedRAMP
Security
Control, which
is based on the
NIST SP 800-53
Revision 4, and

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5
*maintaining
FedRAMP
compliance
through
Continuous
Monitoring.
Further, a new
chapter has
been added on
the FedRAMP
requirements
for
Vulnerability*

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Provides a
common
understanding
of the federal
requirements as
they apply to
cloud computing
Offers a
targeted and
cost-effective

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*approach for
applying the
National
Institute of
Standards and
Technology
(NIST) Risk
Management
Framework (RMF)
Features both
technical and
non-technical
perspectives of*

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*the Federal
Assessment and
Authorization
(A&A) process
that speaks
across the
organization
Introduces the
topic of cloud
computing with
an emphasis on
the
trustworthiness*

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5
*of cloud
computing
systems and
services This
book describes
the scientific
basis of cloud
computing,
explaining the
ideas,
principles, and
architectures
of cloud*

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5
*computing as
well the
different types
of clouds and
the services
they provide.
The text
reviews several
cloud computing
platforms,
including
Microsoft
Azure, Amazon,*

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5
*Oracle, Google,
HP, IBM,
Salesforce, and*

Kaavo. The

author

addresses the

problem of

trustworthiness

in cloud

computing and

provides

methods to

improve the

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*security and
privacy of
cloud
applications.
The end-of-
chapter
exercises and
supplementary
material on the
book's
companion
website will
allow readers*

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5
to grasp the
introductory
and advanced
level concepts
of cloud
computing.

Examines cloud
computing
platforms such
as Microsoft
Azure, Amazon,
Oracle, Google,
HP, IBM,

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*Salesforce, and
Kaavo Analyzes
the use of
aspect-oriented
programming
(AOP) for
refactoring
cloud services
and improving
the security
and privacy of
cloud
applications*

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*Contains
practical
5 examples of
cloud*

*computing, test
questions, and
end-of-chapter
exercises*

*Includes
presentations,
examples of
cloud projects
and other*

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teaching resources at the author's website (<http://www.vladimirsafonov.org/cloud>) Trustworthy Cloud Computing is written for advanced undergraduate and graduate students in

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5
*computer
science, data
science, and
computer
engineering as
well as
software
engineers,
system
architects,
system
managers, and
software*

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*developers new
to cloud
computing.
In recent
years, cloud
computing has
gained a
significant
amount of
attention by
providing more
flexible ways
to store*

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*applications
remotely. With
software
testing
continuing to
be an important
part of the
software
engineering
life cycle, the
emergence of
software
testing in the*

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5
*cloud has the
potential to
change the way
software
testing is
performed.*

Software

*Testing in the
Cloud:*

*Perspectives on
an Emerging
Discipline is a
comprehensive*

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5
collection of
research by
leading experts
in the field
providing an
overview of
cloud computing
and current
issues in
software
testing and
system
migration.

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5
Deserving the
attention of
researchers,
practitioners,
and managers,
this book aims
to raise
awareness about
this new field
of study.

Cloud computing
has experienced
explosive

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5
growth and is
expected to
continue to
rise in
popularity as
new services
and
applications
become
available. As
with any new
technology,
security issues

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5
continue to be
a concern, and
developing
effective
methods to
protect
sensitive
information and
data on the
cloud is
imperative.

Cloud Security:
Concepts,

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*Methodologies,
Tools, and*

*5 Applications
explores the
difficulties
and challenges
of securing
user data and
information on
cloud*

*platforms. It
also examines
the current*

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5
*approaches to
cloud-based
technologies
and assesses
the
possibilities
for future
advancements in
this field.*

*Highlighting a
range of topics
such as cloud
forensics,*

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*information
privacy, and
standardization
and security in
the cloud, this
multi-volume
book is ideally
designed for IT
specialists,
web designers,
computer
engineers,
software*

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*developers,
academicians,
researchers,
and graduate-
level students
interested in
cloud computing
concepts and
security.
Essential
guidance on the
revised COSO
internal*

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*controls
framework Need
the latest on
the new,
revised COSO
internal
controls
framework?
Executive's
Guide to COSO
Internal
Controls
provides a step-*

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*by-step plan
for installing
and
implementing
effective
internal
controls with
an emphasis on
building
improved IT as
well as other
internal
controls and*

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5
*integrating
better risk
management*

*processes. The
COSO internal
controls
framework forms
the basis for
establishing
Sarbanes-Oxley
compliance and
internal
controls*

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5
*specialist
Robert Moeller
looks at topics
including the
importance of
effective
systems on
internal
controls in
today's
enterprises,
the new COSO
framework for*

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5
*effective
enterprise
internal
controls, and
what has
changed since
the 1990s
internal
controls
framework.*

*Written by
Robert Moeller,
an authority in*

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5

*internal
controls and IT
governance*

*Practical, no-
nonsense*

*coverage of all
three*

*dimensions of
the new COSO
framework Helps*

you change

systems and

processes when

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*implementing
the new COSO
internal
controls
framework
Includes
information on
how ISO
internal
control and
risk management
standards as
well as COBIT*

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5
*can be used
with COSO
internal
controls Other
titles by
Robert Moeller:
IT Audit,
Control, and
Security,
Executives
Guide to IT
Governance
Under the*

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5
Sarbanes-Oxley
Act, every
corporation has
to assert that
their internal
controls are
adequate and
public
accounting
firms
certifying
those internal
controls are

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5
attesting to
the adequacy of
those same
internal
controls, based
on the COSO
internal
controls
framework.

Executive's
Guide to COSO
Internal
Controls

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5
*thoroughly
considers
improved risk
management
processes as
part of the new
COSO framework;
the importance
of IT systems
and processes;
and risk
management
techniques.*

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Nowadays it is impossible to imagine a business without technology as most industries are becoming "smarter" and more tech-driven, ranging from small individual tech

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*initiatives to
complete
business models
with
intertwined
supply chains
and "platform"-
based business
models. New
ways of
working, such
as agile and
DevOps, have*

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been introduced, leading to new risks. These risks come in the form of new challenges for teams working together in a distributed manner, privacy concerns, human autonomy, and

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*cybersecurity
concerns.*

*5
Technology is
now integrated
into the
business
discipline and
is here to stay
leading to the
need for a
thorough
understanding
of how to*

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5
address these risks and all the potential problems that could arise. With the advent of organized crime, such as hacks and denial-of-service attacks, all kinds of malicious

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5
*actors are
infiltrating
the digital
society in new
and unique
ways. Systems
with poor
design,
implementation,
and
configurations
are easily
taken advantage*

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of. When it
comes to
5 integrating
business and
technology,
there needs to
be approaches
for assuring
security
against risks
that can
threaten both
businesses and

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*their digital
platforms.*

5
*Strategic
Approaches to*

Digital

Platform

Security

Assurance

offers

comprehensive

design science

research

approaches to

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5
*extensively
examine risks
in digital
platforms and
offer pragmatic
solutions to
these concerns
and challenges.
This book
addresses
significant
problems when
transforming an*

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5
organization embracing API-based platform models, the use of DevOps teams, and issues in technological architectures. Each section will examine the status quo for business

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5
technologies,
the current
challenges, and
core success
factors and
approaches that
have been used.
This book is
ideal for
security
analysts,
software
engineers,

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5
*computer
engineers,
executives,
managers, IT
consultants,
business
professionals,
researchers,
academicians,
and students
who want to
gain insight
and deeper*

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5
knowledge of
security in
digital
platforms and
gain insight
into the most
important
success factors
and approaches
utilized by
businesses.

[The Definitive
Guide for Cloud](#)

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Service
Providers

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A Comprehensive
Guide to Secure
Cloud Computing
Trustworthy
Cloud Computing
Reliability
Assurance of
Big Data in the
Cloud
The Official
(ISC)2 Guide to

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the CCSP CBK
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Enterprise
5
Cloud Security
and Governance
High
Performance
Cloud Auditing
and
Applications
An Enterprise
Perspective on
Risks and
Compliance

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Management

Audit/assurance
Program

Vendor

Management:

Using COBIT 5

Data Privacy

and Trust in

Cloud Computing

Handbook of

Research on

Security

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Considerations
in Cloud
Computing

Create strong IT governance processes In the current business climate where a tremendous amount of importance is being given to

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governance, risk,
and compliance

5
(GRC), the
concept of IT
governance is
becoming an
increasingly
strong
component.
Executive's
Guide to IT
Governance

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5 explains IT governance, why it is important to general, financial, and IT managers, along with tips for creating a strong governance, risk, and compliance IT systems process. Written

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Assurance In The
Cloud Using Cobit

by Robert

Moeller, an

5

authority in

auditing and IT

governance

Practical, no-

nonsense

framework for

identifying,

planning,

delivering, and

supporting IT

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5

services to your
business Helps

you identify
current strengths
and weaknesses
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and practical,

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information to
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privacy for both
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become the next
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development for
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technology
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for storage have
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efficiently A
step-by-step*

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*guide that will
teach you the*

*5 unique
techniques and
methodologies of
Cloud data
governance Book
Description
Modern day
businesses and
enterprises are
moving to the
Cloud, to
improve*

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5
**efficiency and
speed, achieve
flexibility and
cost**

**effectiveness,
and for on-
demand Cloud
services.**

**However,
enterprise Cloud
security remains
a major concern
because**

migrating to the

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*public Cloud
requires
transferring
some control
over
organizational
assets to the
Cloud provider.
There are
chances these
assets can be
mismanaged and
therefore, as a
Cloud security*

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*professional,
you need to be
armed with
techniques to
help businesses
minimize the
risks and misuse
of business
data. The book
starts with the
basics of Cloud
security and
offers an
understanding of*

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various
policies,
5 governance, and
compliance
challenges in
Cloud. This
helps you build
a strong
foundation
before you dive
deep into
understanding
what it takes to
design a secured

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*network
infrastructure
and a well-
architected
application
using various
security
services in the
Cloud
environment.
Automating
security tasks,
such as Server
Hardening with*

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Ansible, and other automation services, such as Monit, will monitor other security daemons and take the necessary action in case these security daemons are stopped maliciously. In short, this book has everything

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***you need to
secure your
Cloud
environment
with. It is your
ticket to obtain
industry-adopted
best practices
for developing a
secure, highly
available, and
fault-tolerant
architecture for
organizations.***

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**What you will
learn Configure
your firewall
and Network ACL
Protect your
system against
DDOS and applica
tion-level
attacks Explore
cryptography and
data security
for your cloud
Get to grips
with**

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5
*configuration
management tools*

*to automate your
security tasks*

Perform

*vulnerability
scanning with*

*the help of the
standard tools*

in the industry

Learn about

central log

management Who

this book is for

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*If you are a
Cloud security
professional who
wants to ensure
Cloud security
and data
governance
irrespective of
the environment,
then this book
is for you.*

*Basic
understanding of
working on any*

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5*
**Cloud platforms
is beneficial.**

**When it comes to
computer
security, the
role of auditors
today has never
been more
crucial.**

**Auditors must
ensure that all
computers, in
particular those
dealing with e-**

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*business, are
secure. The only
source for
information on
the combined
areas of
computer audit,
control, and
security, the IT
Audit, Control,
and Security
describes the
types of
internal*

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5
**controls,
security, and
integrity**

***procedures that
management must
build into its
automated
systems. This
very timely book
provides
auditors with
the guidance
they need to
ensure that***

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5 *their systems
are secure from
both internal
and external
threats.*

*Explores key
challenges and
solutions to
assured cloud
computing today
and provides a
provocative look
at the face of
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*tomorrow This
book offers
5 readers a
comprehensive
suite of
solutions for
resolving many
of the key
challenges to
achieving high
levels of
assurance in
cloud computing.
The distillation*

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of critical
research
5 findings
generated by the
Assured Cloud
Computing Center
of Excellence
(ACC-UCoE) of
the University
of Illinois, Urb
ana-Champaign,
it provides
unique insights
into the current

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**and future shape
of robust,
dependable, and
secure cloud-
based computing
and data cyberin
frastructures. A
survivable and
distributed clou
d-computing-
based
infrastructure
can enable the
configuration of**

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any dynamic systems-of-systems

that contain both trusted and partially trusted resources and services sourced from multiple organizations. To assure mission-critical computations and workflows that

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rely on such systems-of-systems

5 it is necessary to ensure that a given configuration does not violate any security or reliability requirements.

Furthermore, it is necessary to model the trustworthiness

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*of a workflow or
computation*

*fulfillment to a
high level of
assurance. In
presenting the
substance of the
work done by the
ACC-UCoE, this
book provides a
vision for
assured cloud
computing
illustrating how*

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*individual
research
5 contributions
relate to each
other and to the
big picture of
assured cloud
computing. In
addition, the
book: Explores
dominant themes
in cloud-based
systems,
including design*

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*correctness,
support for big*

*data and
analytics,
monitoring and
detection,
network
considerations,
and performance*

*Synthesizes
heavily cited
earlier work on
topics such as
DARE, trust*

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*mechanisms, and
elastic graphs,
as well as newer
research
findings on
topics,
including R-
Storm, and RAMP
transactions
Addresses
assured cloud
computing
concerns such as
game theory,*

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*stream
processing,
storage,
algorithms,
workflow,
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formal analysis
of safety, and
streaming
Bringing
together the
freshest
thinking and*

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*most important
topics, Assured
Cloud Computing
is a must-read
for researchers
and*

*professionals in
the fields of
computer science
and engineering,
especially those
working within*

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5 industrial, military, and governmental contexts. It is also a valuable reference for advanced students of computer science.

This book provides the latest research findings, and

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*discusses, from
both theoretical
and practical
perspectives,
innovative
research methods
and development
techniques
related to
intelligent
social networks
and
collaborative
systems,*

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5
*systems, mobile
collaborative
systems and
secure*

*intelligent
cloud systems.*

*It also presents
the synergies
among various
paradigms in
such a multi-
disciplinary*

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field of
Cloud Using Cobit
5
collaborative
systems. With
the rapid
development of
the Internet, we
are experiencing
a shift from the
traditional
sharing of
information and
applications as
the main purpose

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of the Web to an
Cloud Using Cobit
emergent
5 paradigm, which
locates people
at the very
centre of
networks and
exploits the
value of
individuals'
connections,
relations and
collaboration.
Social networks

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5

*are also playing
a major role in
the dynamics and
structure of
intelligent Web-
based networking
and
collaborative
systems. Virtual
campuses,
virtual
communities and
organizations
strongly*

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5 Leverage intelligent networking and collaborative systems by means of a great variety of formal and informal electronic relations, such as business-to-business, peer-to-peer and

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*various types of
online*

*5 collaborative
learning
interactions,
including the
emerging e-
learning
systems. This
has resulted in
entangled
systems that
need to be
managed*

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efficiently and autonomously. In addition, the latest, powerful technologies based on grid and wireless infrastructure as well as cloud computing are currently enhancing collaborative and networking

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applications significantly, but are also facing new issues and challenges. The principal purpose of the research and development community is to stimulate research that will lead to the

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5 creation of responsive environments for networking and, in the longer term, the development of adaptive, secure, mobile, and intuitive intelligent systems for collaborative work and

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Learning.

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5
*Despite the buzz
surrounding the
cloud computing,
only a small
percentage of
organizations
have actually
deployed this
new style of
IT—so far. If
you're planning
your long-term
cloud strategy,*

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*this practical
book provides
insider
knowledge and
actionable real-
world lessons
regarding
planning,
design,
operations,
security, and
application
transformation.
This book*

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managers how to
transition their
organization's
traditional IT
to cloud
computing.*

*Rather than yet
another book
trying to sell
or convince
readers on the
benefits of*

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clouds, this
book provides
guidance,
lessons learned,
and best
practices on how
to design,
deploy, operate,
and secure an
enterprise cloud
based on real-
world
experience.*

Author James

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*Bond provides
useful guidance*

*and best-
practice
checklists based
on his field
experience with
real customers
and cloud
providers.*

*You'll view
cloud services
from the
perspective of a*

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*5 consumer and as
an owner/operator
of an enterprise
private or
hybrid cloud,
and learn
valuable lessons
from successful
and less-than-
successful
organization use-
case scenarios.
This is the*

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5
information every CIO needs

*in order to make
the business and
technical
decisions to
finally execute
on their journey
to cloud
computing. Get
updated trends
and definitions
in cloud
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models, and for
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not foreseen by
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field of cloud
control systems

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(CCS). The book begins with an overview of cloud control systems (CCS) fundamentals, which will help beginners to better understand the depth and scope of the field. It then discusses current

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techniques and
developments in
CCS, including
event-triggered
cloud control,
predictive cloud
control, fault-
tolerant and
diagnosis cloud
control, cloud
estimation
methods, and
secure control/e
stimation under*

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researchers
including
professors,
postgraduate
students and
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the innovative
application of
cloud computing
principles to
control and
automation
systems Provides
an overview of
cloud control
systems (CCS)
fundamentals and
introduces*

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*current
techniques and
developments in
CCS Investigates
distributed
denial of
service attacks,
false data
injection
attacks,
resilient design
under
cyberattacks,
and safety*

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*assurance under
stealthy
cyberattacks*

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