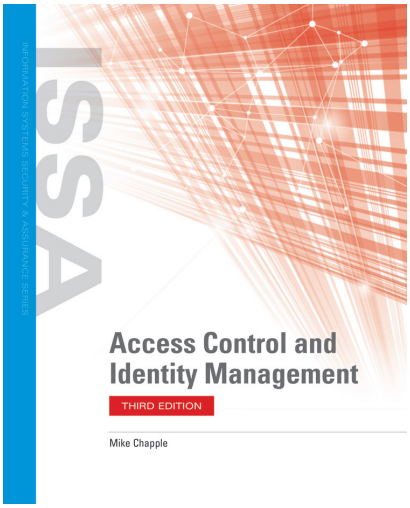
# TRANSITION GUIDE




This transition guide serves to outline the updates and new content found in ***Access Control and Identity Management, Third Edition.***

## SUMMARY

Access control protects resources against unauthorized viewing, tampering, or destruction. These systems serve as a primary means of ensuring privacy, confidentiality, and prevention of unauthorized disclosure. Revised and updated with the latest data from this fast-paced field, ***Access Control and Identity Management, Third Edition*** defines the components of access control, provides a business framework for implementation, and discusses legal requirements that impact access control programs. Focusing on Identity and Security Management, this new edition looks at the risks, threats, and vulnerabilities prevalent in information systems and IT infrastructures and how to handle them. This valuable resource provides both students and professional with details and procedures on implementing access control systems as well as managing and testing those systems.

## REVISION UPDATES

- Available with the updated cybersecurity Cloud Labs, providing immersive mock IT infrastructures where students can learn and practice foundational cybersecurity skills
- New Case Study on Biometrics
- New sections on the Federal Information Security Management Act (FISMA) concerning US compliance
- Restructured organization of topics to better align with both the subject matter and student learning
- Updated references, examples, and screenshots of Software
- New information on Risk Adaptive Access Control (RAdAC)

## APPLICABLE COURSES

- Written for IT students and professionals looking to gain knowledge in access control systems and information systems security.

## INSTRUCTOR RESOURCES

- Instructor's Guide
- Syllabus
- Slides in PowerPoint format
- 15-Week Course Map
- Handouts
- Course Projects
- Answers to Lab Exercises
- Test Bank

**Mike Chapple**

ISBN: 978-1-284-19835-5
Paperback • 400 pages • © 2021

## STAY CONNECTED

Facebook:
https://www.facebook.com/jonesbartlettlearning/

Twitter:
@JBLearning

Blog:
https://blogs.jblearning.com/

Website:
jblearning.com

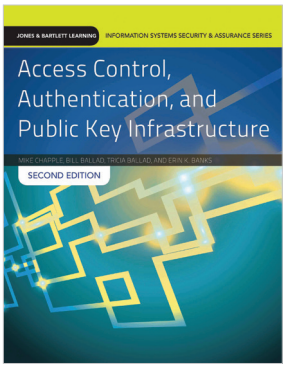
SourceCode: CHA3ETG20

JONES & BARTLETT LEARNING
An Ascend Learning Company

Jones & Bartlett Learning | 5 Wall Street | Burlington, MA | 01803
phone: 1-800-832-0034 | fax: 978-443-8000 | **www.jblearning.com**

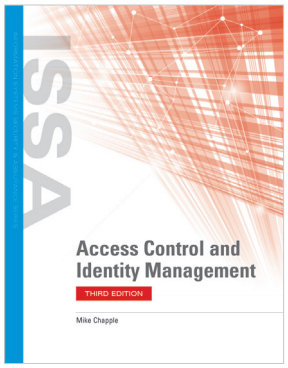
# CHAPTER OUTLINE

This chapter outline has been created to help you easily transition to the third edition. Note that chapter content from the second edition may now be found in a different chapter in the third edition. Also note that chapter numbers and titles may have been updated.




***Access Control, Authentication, and Public Key Infrastructure, Second Edition***

By Mike Chapple, Bill Ballad, Tricia Ballad, and Erin Banks



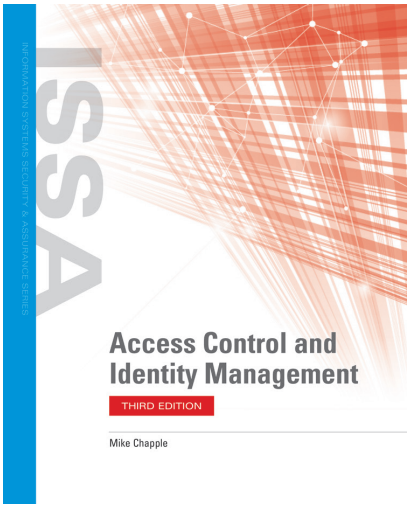

***Access Control and Identity Management, Third Edition***

By Mike Chapple

| SECOND EDITION | THIRD EDITION |
|---|---|
| **Chapter 1** Access Control Framework | **Chapter 1** Access Control Framework |
| **Chapter 2** Assessing Risk and Its Impact on Access Control | **Chapter 2** Business Drivers for Access Control |
| **Chapter 3** Business Drivers for Access Controls | **Chapter 3** Human Nature and Organizational Behavior |
| **Chapter 4** Access Control Policies, Standards, Procedures, and Guidelines | **Chapter 4** Assessing Risk and Its Impact on Access Control |
| **Chapter 5** Unauthorized Access and Security Breaches | **Chapter 5** Access Control in the Enterprise |
| **Chapter 6** Mapping Business Challenges to Access Control Types | **Chapter 6** Mapping Business Challenges to Access Control Types |
| **Chapter 7** Human Nature, Organizational Behavior, and Considerations | **Chapter 7** Access Control System Implementations |
| **Chapter 8** Access Control for Information Systems | **Chapter 8** Access Control for Information Systems |
| **Chapter 9** Physical Security and Access Control | **Chapter 9** Physical Security and Access Control |
| **Chapter 10** Access Control in the Enterprise | **Chapter 10** Access Control Solutions for Remote Workers |
| **Chapter 11** Access Control System Implementations | **Chapter 11** Public Key Infrastructure and Encryption |
| **Chapter 12** Access Control Solutions for Remote Workers | **Chapter 12** Testing Access Control Systems |
| **Chapter 13** Public Key Infrastructure and Encryption | **Chapter 13** Access Control Assurance |
| **Chapter 14** Testing Access Control Systems | **Chapter 14** Access Control Laws, Policies, and Standards |
| **Chapter 15** Access Control Assurance | **Chapter 15** Security Breaches and the Law |

JONES & BARTLETT LEARNING
An Ascend Learning Company

Jones & Bartlett Learning | 5 Wall Street | Burlington, MA | 01803
phone: 1-800-832-0034 | fax: 978-443-8000 | **www.jblearning.com**




**Mike Chapple**

ISBN: 978-1-284-19835-5
Paperback • 400 pages • © 2021

This document has been created to help you easily transition to the Cloud Labs for the ***Third Edition***.

## GLOBAL LAB UPDATES

- Automated Lab Report functionality allows students to create Deliverables directly from the Lab Guide and download their Lab Reports as PDFs.
- Primary operating system updated to Windows Server 2019.
- Additional updates to all software used in the labs.
- More realistic network topologies.
- Increased number of screenshots.
- Improved alignment with textbook chapters.
- Replaced Landing VM and RDP folder with Virtual Machine drop-down menu on Lab View toolbar for simplified navigation.
- Moved Lab Overview before Learning Objectives.
- Eliminated deliverable files, replacing with screenshots where applicable.
- Eliminated Assessment Worksheets and reduced Assessment Quizzes to 10 questions to simplify assessment options.
- Updated Section 3 to provide more engaging scenario-based challenge exercises.

## SPECIAL LAB UPDATES

Lab 1: Design an Access Control System

- New Theory Lab, introduces students to design considerations for creating an access control system

Lab 2: Conducting a Risk Assessment of an Access Control System

- New Theory Lab, introduces students to risk assessment in the context of access controls

Lab 3: Configuring an Active Directory Domain Controller

- Updated version of 2e Lab 1: Configuring an Active Directory Domain Controller
- Added coverage of joining a server to the new domain in Section 2

Lab 4: Managing Windows Accounts and Organizational Units

- Updated version of 2e Lab 2: Managing Windows Accounts and Organizational Units

Lab 5: Configuring Windows File System Permissions

- Updated version of 2e Lab 3: Configuring Windows File System Permissions

Lab 6: Configuring a Remote Access VPN

- New lab, introduces students to Windows and Linux-based VPNs

Lab 7: Encrypting and Decrypting Files with Public Key Infrastructure

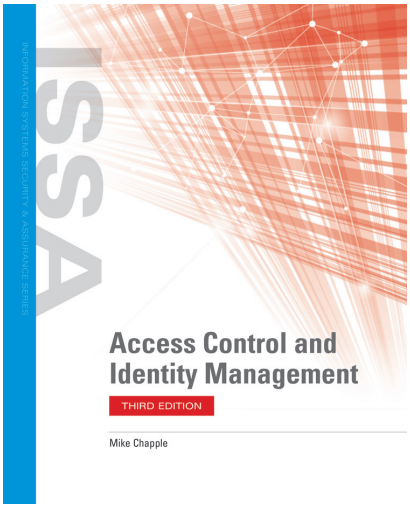
- Updated version of 2e Lab 8: Encrypting and Decrypting Files with PKI

Lab 8: Scanning an Active Directory Domain Controller for Vulnerabilities

- New lab, introduces students to vulnerability management and common scanning tools

JONES & BARTLETT LEARNING
An Ascend Learning Company

Jones & Bartlett Learning | 5 Wall Street | Burlington, MA | 01803
phone: 1-800-832-0034 | fax: 978-443-8000 | **www.jblearning.com**




**Mike Chapple**

ISBN: 978-1-284-19835-5
Paperback • 400 pages • © 2021

Lab 9: Enabling Audit Trails to Enforce Accountability

- New lab, introduces students to logging and auditing system events

Lab 10: Applying the Security Policy Framework to an Access Control Environment

- New Theory Lab, introduces students to security policies in the context of access controls

Supplemental Lab 1: Managing Group Policy Objects in Active Directory

- Updated version of 2e Lab 4: Managing Group Policy Objectives in Active Directory

Supplemental Lab 2: Managing Linux Accounts

- Updated version of 2e Lab 6: Managing Linux Accounts

Supplemental Lab 3: Configuring Linux File System Permissions

- Updated version of 2e Lab 7: Configuring Linux File System Permissions

Supplemental Lab 4: Authenticating Encrypted Communications with Digital Signatures

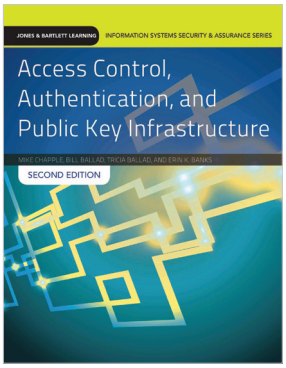
- Updated version of 2e Lab 9: Authenticating Security Communications with Digital Signatures

Supplemental Lab 5: Encrypting and Decrypting Web Traffic with HTTPS

- Updated version of 2e Lab 10: Encrypting and Decrypting Web Traffic with HTTPs

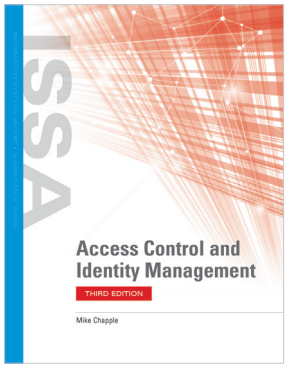
JONES & BARTLETT LEARNING
An Ascend Learning Company

Jones & Bartlett Learning | 5 Wall Street | Burlington, MA | 01803
phone: 1-800-832-0034 | fax: 978-443-8000 | **www.jblearning.com**




***Access Control, Authentication, and Public Key Infrastructure, Second Edition***

By Mike Chapple, Bill Ballad, Tricia Ballad, and Erin Banks




***Access Control and Identity Management, Third Edition***

By Mike Chapple

| SECOND EDITION | THIRD EDITION |
|---|---|
| **Lab 1:** Configuring an Active Directory Domain Controller | **Lab 1:** Designing an Access Control System |
| **Lab 2:** Managing Windows Accounts and Organizational Units | **Lab 2:** Conducting a Risk Assessment of an Access Control System |
| **Lab 3:** Configuring Windows File System Permissions | **Lab 3:** Configuring an Active Directory Domain Controller |
| **Lab 4:** Managing Group Policy Objects in Active Directory | **Lab 4:** Managing Windows Accounts and Organizational Units |
| **Lab 5**: Configuring the Windows Firewall | **Lab 5:** Configuring Windows File System Permissions |
| **Lab 6:** Managing Linux Accounts | **Lab 6:** Configuring a Remote Access VPN |
| **Lab 7:** Configuring Linux File System Permissions | **Lab 7:** Encrypting and Decrypting Files with Public Key Infrastructure |
| **Lab 8:** Encrypting and Decrypting Files with PKI | **Lab 8:** Scanning an Active Directory Domain Controller for Vulnerabilities |
| **Lab 9:** Authenticating Security Communications with Digital Signatures | **Lab 9:** Enabling Audit Trails to Enforce Accountability |
| **Lab 10:** Encrypting and Decrypting Web Traffic with HTTPS | **Lab 10:** Applying the Security Policy Framework to an Access Control Environment |
| | **Supplemental Lab 1:** Managing Group Policy Objects in Active Directory |
| | **Supplemental Lab 2:** Managing Linux Accounts |
| | **Supplemental Lab 3**: Configuring Linux File System Permissions |
| | **Supplemental Lab 4:** Authenticating Encrypted Communications with Digital Signatures |
| | **Supplemental Lab 5:** Encrypting and Decrypting Web Traffic with HTTPS |

JONES & BARTLETT LEARNING
An Ascend Learning Company

Jones & Bartlett Learning | 5 Wall Street | Burlington, MA | 01803
phone: 1-800-832-0034 | fax: 978-443-8000 | **www.jblearning.com**