



# Identity Professionals Recommend

## AN ANNOTATED BIBLIOGRAPHY

Updated and Issued from Time to Time

Contributions by the membership of IDPro

compiled by  
THE BODY OF KNOWLEDGE COMMITTEE

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## 1 Introduction

This document is intended as a way to convey some of the accumulated wisdom and knowledge of the members of IDPro. It is in the form of an annotated bibliography, where the references may be books or any other form of knowledge transfer.

The selections are voluntarily submitted by members of IDPro and are expected to accumulate over time.

The contributors' biographic details and likenesses and annotations are subject to only light editing by the Body of Knowledge Committee.

A selection of fonts is intended to create a sense of light-heartedness and the annotations are intended to be likewise fresh and friendly.

Additional contributions are more than welcome. Please contact @bok for the best method to contribute.

## 2 The Contributors

### George Dobbs

Hartford, Connecticut, USA area



Although my day job is not currently involved directly with identity, I continue my long involvement with the subject in my role as chair of the IDPro body of knowledge committee. I also am a current board member IDPro.

In previous roles I have had extensive experience in the corporate world designing and implementing both worker and customer identity systems. My most recent was in the area of so called "proofing" - how to recognize someone at a distance. I am concerned with methods of sharing knowledge and know-how.

### Recommendations

1. Hoffman, Modern Methods for Computer Security and Privacy
2. Cameron, The Laws of Identity

### Salman (Shaq) Haq

Mclean, Virginia, USA area



A digital identity technologist currently working at a major financial institution as a CIAM product manager. In my current role I am responsible for providing a secure and intuitive authentication experience for our customers. Previous stints include an identity platform startup and a registry services provider.

## Recommendations

### 1. Windley, Digital Identity

**Steve Hutchinson**

Richmond, Virginia, USA area



I am the Principal Cybersecurity Architect for GE Digital. After cutting my teeth in C/C++ software development and network engineering, I spent a decade as an enterprise architect in the healthcare sector focused on security and network technologies. In my current role at GE, I am responsible for strategy of one of the largest corporate identity infrastructures in the world and I oversee its evolution to provide the next generation of identity services required for GE's "Industrial Internet." I am a founding member of IDPro and honored to sit on the inaugural Board focused on community development which has always been one of my passions. If you're ever in Richmond, VA on a Wednesday night, drop me a note for an invite to our

biweekly backyard get-together.

## Recommendations

1. Birch, Identity is the New Money
2. Hardjono, Shrier, and Pentland, Trust::Data
3. Richer and Sanso, OAuth 2 in Action

**André Koot**

Amsterdam, Netherlands area



André is IAM and Security Consultant at Nixu Benelux and is the IAM Internal Practice Lead within Nixu.

My IAM experience comes from my financial accounting and auditing background. This background of anti-fraud detection and prevention business processes lead to research in the area of authorization principles. Currently I am working with different customers on federated identity and access architectures, both for internal and external identities (B2C, B2B, B2E and T2B - Things to Business). My motivation to participate in the IDPro BoK project stems directly from my need to share knowledge as a lecturer, author, blogger and social media activist. And from my mission to take infosec

out of the realm of IT.

## Recommendations

1. Cameron, The Laws of Identity

2. Harper, Identity Crisis
3. Hardt, Identity 2.0 Keynote

## Corey Scholefield

Victoria, British Columbia, Canada area



I work in the area of public-sector digital identity management, designing access management solutions that meet requirements for information security, ease of use, and privacy. I am currently working on identity systems renewal projects for the University of Victoria, related to systems that provide accounts-provisioning, access certification, and identity life-cycle management functions. I am also working in the area of identity federation with higher-Ed colleagues connected to BCNet, CANARIE, and the Canadian Access Federation.

dian Access Federation.

## Recommendations

1. Windley, Digital Identity
2. Prasad and Rajbhandari, Identity Management on a Shoestring
3. Hazelton and Walker, The CIC Cloud Services Cookbook

## Sarah Squire

Seattle, Washington, USA area



Sarah Squire is a Senior Technical Architect at Ping Identity. She is a co-author of NIST Special Publication 800-63C Digital Identity Guidelines, which outlines federated authentication standards for all US federal agencies. She serves on the Board of Directors for IDPro and the OpenID Foundation. She has been named one of the top 100 influencers in identity. Sarah holds a Bachelor of Science in Physics and a Master of Science in Information Management from the University of Washington where she was a NASA Space Grant Scholar. She is also a Certified Information Security

System Professional (CISSP).

## Recommendations

1. National Strategy for Trusted Identities in Cyberspace
2. Richer and Sanso, OAuth 2 in Action
3. Gilman and Barth, Zero Trust Networks
4. Hardt, Identity 2.0 Keynote

## References

**Birch, David. Identity is the New Money. London Publishing Partnership, 2014, 140 pages.**

I purchased this book shortly after its release after reading one of David Birch's online posts about the rise of social identity in parallel to the decline of cash in our modern world. He begins with a synopsis of how broken our definitions of 'identity' are and focuses on three primary types: personal individual identity, social identity, and legal identity. Of these, he singles out social identity (which he differentiates from social media) with the observation that "identity is returning to a concept built on networks, rather than index cards in a filing cabinet." The book is also loaded with real-world case studies to highlight and support David's conclusions. Even those seasoned professionals who feel that there's little more to learn from a book will find important insights here that have certainly shaped my own view on the future of identity, identity systems, and the frameworks that support them.

– Steve Hutchinson

**Cameron, Kim. The Laws of Identity. 2005. URL: <http://www.identityblog.com/stories/2005/05/13/TheLawsOfIdentity.pdf> (visited on 12/01/2018).**

It is such a fundamental piece of writing, that major topics are now part of GDPR.

– André Koot

Love the careful use of language. For example distinguishing between claims and assertions based on the connotation or not of doubt. How sad that 2005 era vision of user control and consent has not yet been universally accepted in 2018. In 2018 this document still provides a powerful framework for thought about identities.

– George Dobbs

**Gilman, Evan and Doug Barth. Zero Trust Networks: Building Secure Systems in Untrusted Networks. O'Reilly Media, June 2017, 240 pages.**

This is an excellent primer on strong authentication techniques. Don't let the word "networks" in the title fool you. This is about securing systems using methods other than networks - namely, identity, device, and application management.

– Sarah Squire

**Hardjono, Thomas, David Shrier, and Alex Pentland, eds. Trust::Data: A New Framework for Identity and Data Sharing. VisionaryFuture, 2016, 312 pages.**

A wonderful academic discussion on the need for our identity and data security systems to adapt to a world that has moved from a physical document-based culture to one built on digital transactions. The book includes in-depth examinations of user centricity, data privacy, distributed trust authorities, universal access, and many other topics. It also includes some possible solutions (such as MIT's OPAL/ENIGMA systems). The solutions presented are more reliant on blockchain than I care for but

followers of UMA will see much in here familiar and well presented. You may not agree with everything in the book but it superbly researched and documented. The 20-page bibliography alone is worth the price of admission as it allows you to delve deeper into specific topics with the source material.

– Steve Hutchinson

**Hardt, Dick. Identity 2.0 Keynote. 2005. URL: <https://www.youtube.com/watch?v=RrpajcAgR1E> (visited on 12/01/2018).**

Although an old video, still worthwhile: the keynote about "Identity 2.0". This presentation (great style, by the way) shows that we still have a long way to go to enable access.

– André Koot

This keynote has inspired a generation of identity professionals, and highlights many deep problems with current identity infrastructure (like a lack of pervasive zero-knowledge proofs) that still exist today.

– Sarah Squire

**Harper, Jim. Identity Crisis: How Identification is Overused and Misunderstood. Cato Institute, May 19, 2006, 250 pages.**

I really love the subtitle. We should care more about Access, than about Identity. Especially in federated contexts, identity is no longer the bearer of authorizations.

– André Koot

**Hazelton, Keith and David Walker. The CIC Cloud Services Cookbook. 2015. URL: <https://carmenwiki.osu.edu/display/CICIDM/The+CIC+Cloud+Services+Cookbook> (visited on 12/01/2018).**

A great reference coming from the higher-Ed space on SAML SSO integrations, written in a very compelling DO and DON'T format. Many great lessons-to-learn from this one, on many topics in the identity and access management space.

– Corey Scholefield

**Hoffman, Lance J. Modern Methods for Computer Security and Privacy. Prentice-Hall, Inc., 1977, 234 pages.**

It is interesting how much the world has changed since this book came out. And it is also interesting how much is still relevant. Sure you can smirk at some of the examples, such as a line speed of 600 characters per minute! However, it does a good job of the basics on Authentication and Authorization - many of the considerations are the same - although this predates public key technology and packet switched networks were not yet widely adopted. Chapter 5 is an excellent introduction to ciphers leading up to the P-boxes and S-boxes used Data Encryption Standard. Good background for more modern crypto! There is also a long bibliography of historical interest.

– George Dobbs

**National Strategy for Trusted Identities in Cyberspace.** 2011. URL: <https://www.nist.gov/sites/default/files/documents/2016/12/08/nsticstrategy.pdf> (visited on 01/02/2019).

This paper was produced by the US Government during the Obama administration and outlines in basic English why the United States does not want to have a central government directory or a central government identity provider. It speculates as to how government could enable the private sector to fill that gap in very smart and innovative ways that protect citizen privacy and prevent government overreach.

– Sarah Squire

**Prasad, Ganesh and Umesh Rajbhandari. Identity Management on a Shoestring.** 2012. URL: <https://www.infoq.com/minibooks/Identity-Management-Shoestring> (visited on 12/01/2018).

In some contexts, IDAM middleware doesn't get much love. And sometimes, not much budget. In those cases, take some tips from these authors as they assemble an admirable collection of open-source technologies, and an identity-management architecture (IMA) for enterprise. A great read, recommended to me by a respected IDAM colleague.

– Corey Scholefield

**Richer, Justin and Antonio Sanso. OAuth 2 in Action.** Manning Publications, 2017. 360 pages.

This is not only the most comprehensive book available about OAuth but it is also the most accessible, which is a neat trick to pull off. Justin and Antonio expertly guide the reader by providing an overview of what OAuth is by talking about why it came to be and what it was meant to solve. They describe the flow between all of the different players in the framework followed by dedicated chapters for each one of those participants before presenting the reader with more advanced topics. One of those is easily the best description ever written about dynamic client registration, which I have referred to many times in our own implementation. As a cybersecurity architect, I particularly appreciate the 50 pages of detailed discussion about common vulnerabilities of different parts of the system. It's a fantastic resource that you'll not only refer to again and again, but also a resource to lend to those new identity professionals that you're trying to grow.

– Steve Hutchinson

This is a textbook on the theory and intent behind OAuth and OpenID Connect. It includes not only history and reasoning behind the development of these standards, but also easy tutorials and sample code allowing the reader to build his own providers and clients in an afternoon. Highly recommended.

– Sarah Squire

**Windley, Phillip J. Digital Identity: Unmasking Identity Management Architecture (IMA). O'Reilly Media, 2005, 266 pages.**

I've used Phil's resource before in several contexts, including: a) Course textbook for an online course in enterprise identity management b) Selecting some chapters as "homework assignments" for newcomers to our IDAM Team c) Educating decision-makers on the governance aspects of identity management in enterprise.

His chapter 15 example of an Identity Management Maturity (IMM) model is outstanding.

– Corey Scholefield

This book starts with the basics of digital identity - what you know, what you have, what you are. From there it provides a broad overview of many important concepts. It is an accessible book and caters to beginner and expert readers alike and best of all, it can be read cover to cover in one sitting.

– Salman (Shaq) Haq