



## Building the Infrastructure for Cloud Security: A Solutions View (Expert's Voice in Internet Security)

By Raghuram Yeluri, Enrique Castro-Leon

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For cloud users and providers alike, security is an everyday concern, yet there are very few books covering cloud security as a main subject. This book will help address this information gap from an Information Technology solution and usage-centric view of cloud infrastructure security. The book highlights the fundamental technology components necessary to build and enable trusted clouds. Here also is an explanation of the security and compliance challenges organizations face as they migrate mission-critical

applications to the cloud, and how trusted clouds, that have their integrity rooted in hardware, can address these challenges.

This book provides:

- Use cases and solution reference architectures to enable infrastructure integrity and the creation of trusted pools leveraging Intel Trusted Execution Technology (TXT).
- Trusted geo-location management in the cloud, enabling workload and data location compliance and boundary control usages in the cloud.
- OpenStack-based reference architecture of tenant-controlled virtual machine and workload protection in the cloud.
- A reference design to enable secure hybrid clouds for a cloud bursting use case, providing infrastructure visibility and control to organizations.

"A valuable guide to the next generation of cloud security and hardware based root of trust. More than an explanation of the what and how, is the explanation of why. And why you can't afford to ignore it!" —**Vince Lubsey, Vice President, Product Development, Virtustream Inc.**

"Raghu provides a valuable reference for the new 'inside out' approach, where trust in hardware, software, and privileged users is never assumed—but instead measured, attested, and limited according to least privilege principles." —**John Skinner, Vice President, HyTrust Inc.**

"Traditional parameter based defenses are insufficient in the cloud. Raghu's book addresses this problem head-on by highlighting unique usage models to enable trusted infrastructure in this open environment. A must read if you are exposed in cloud." —**Nikhil Sharma, Sr. Director of Cloud Solutions, Office of CTO, EMC Corporation**

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### Editorial Review

#### About the Author

Raghu Yeluri is a Principal Engineer and lead Security Solutions Architect in the Data Center & Cloud Products Group at Intel Corporation with focus on virtualization and cloud security usages, solution architectures and technology initiatives. In this role, he drives security solution Pathfinding and development to deliver hardware-assisted security solutions that enable deep visibility, orchestration and control in multi-tenant Clouds. Prior to this role, he has worked in various engineering and architecture positions in systems development and deployment, focusing on service-oriented architectures and large data analytics, in Information Technology and Manufacturing Technology groups during the last 15+ years at Intel. Raghu has multiple patents filed in security, attestation and control in virtualization and cloud computing, and he is a co-author of a book, Creating the Infrastructure for Cloud Computing: An Essential Handbook for IT Professionals. He holds a MS degree in Computer Science, and a B.S in Electrical Engineering, and was involved in multiple Artificial Intelligence/Knowledge-Engineering startup ventures, prior to joining Intel.

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