

Microservices Security in Action

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Synopsis

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About the technology **Integrating** independent services into a single system presents special security challenges in a microservices deployment. With proper planning, however, you can build in security from the start. Learn to create secure services and protect application data throughout development and deployment. As microservices continue to change enterprise application systems, developers and architects must learn to integrate security into their design and implementation. Because microservices are created as a system of independent components, each a possible point of failure, they can multiply the security risk.

About the book **Microservices Security in Action** is filled with solutions, teaching best practices for throttling and monitoring, access control, and microservice-to-microservice communications. Along the way, authors and software security experts Prabath Siriwardena and Nuwan Dias shine a light on important concepts like throttling, analytics gathering, access control at the API gateway, and microservice-to-microservice communication. You'll also discover how to securely deploy microservices using state-of-the-art technologies including Kubernetes, Docker, and the Istio service mesh. When you're finished listening, you'll be planning, designing, and implementing microservices applications with the priceless confidence that comes with knowing they're secure!

What's inside

- Microservice security concepts
- Edge services with an API gateway
- Deployments with Docker, Kubernetes, and Istio
- Security testing at the code level
- Communications with HTTP, gRPC, and Kafka

About the audience For experienced microservices developers with intermediate Java skills.

About the authors Prabath Siriwardena is the vice president of security architecture at WSO2. Nuwan Dias is the director of API architecture at WSO2. They have designed secure systems for many Fortune 500 companies.

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