

SCRATCH



Objectives

Development and operation of secure, large-scale IoT systems is hard and current technologies insufficiently address the major concerns of today's software-intensive systems: security, agility and a need for continuous deployment. SCRATCH proposes an integrative approach to IoT, security and DevOps practices through a set of interoperable tools (toolkit) based on a common conceptual architecture and consisting of the following elements:

- **Secure Hardware Integration** for strong device identity
- **SCRATCH Toolkit** with tools for constrain, comply and control phases
- **SecDevOps Methodology** facilitating accessible and complete security

Use Cases

- **Connected Retail:** secure continuous deployment and operations of tomorrow's IoT based retail store
- **Police:** redesign of an existing mobile surveillance platform addressing secure storage, streaming and provisioning
- **Smart Grids:** development of anti-fraud algorithms, blockchain implementations and other security mechanisms
- **Smart Machinery:** secure management of heavy/dangerous machinery and test suite optimisation

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