



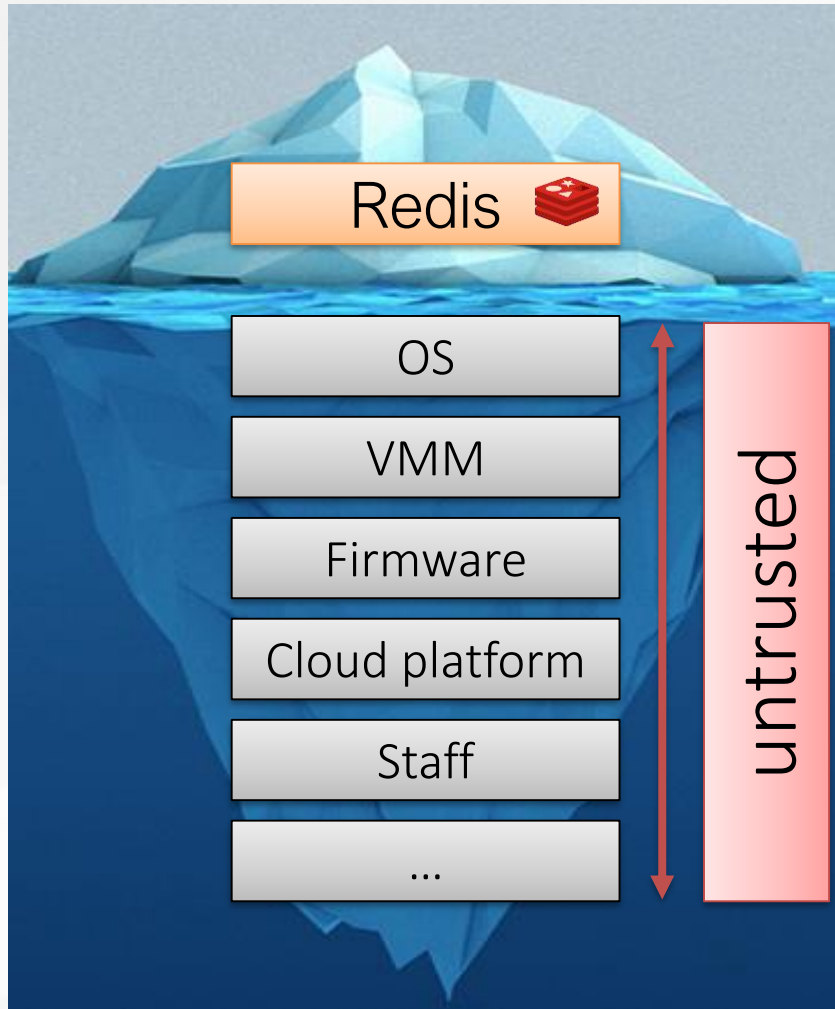
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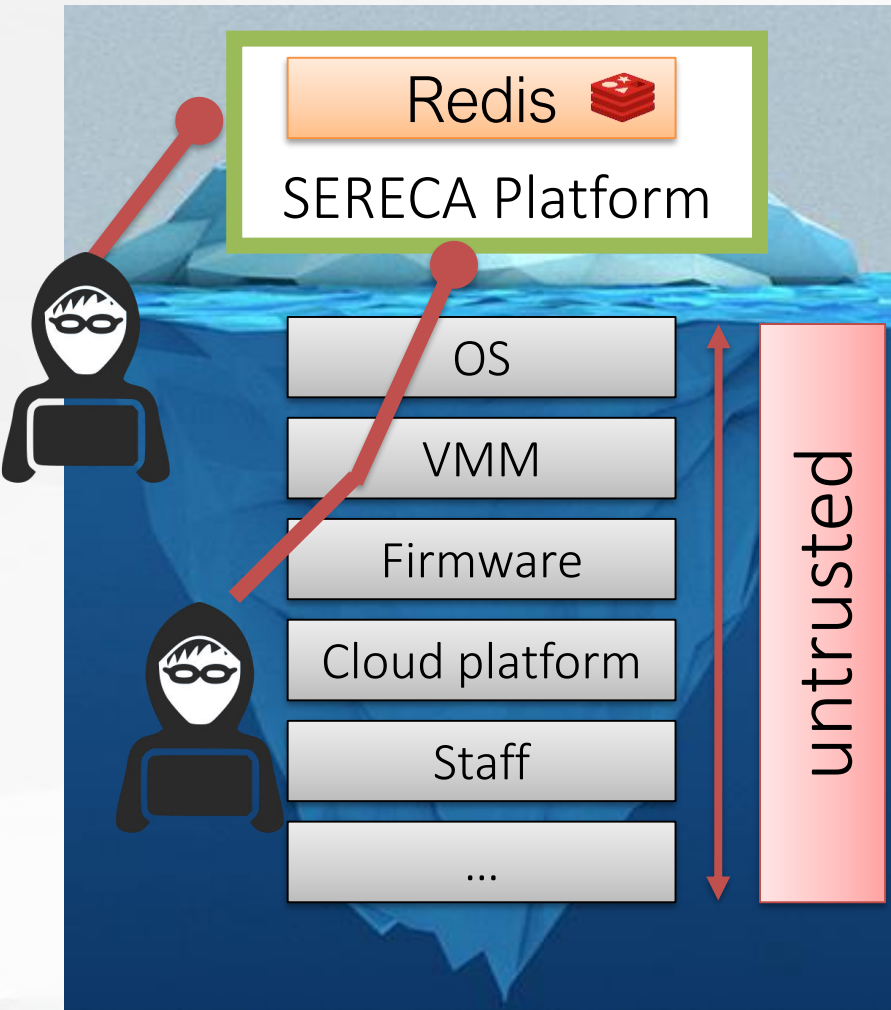
# SECURE ENCLAVES FOR REACTIVE CLOUD APPLICATIONS

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# The Application provider's perspective



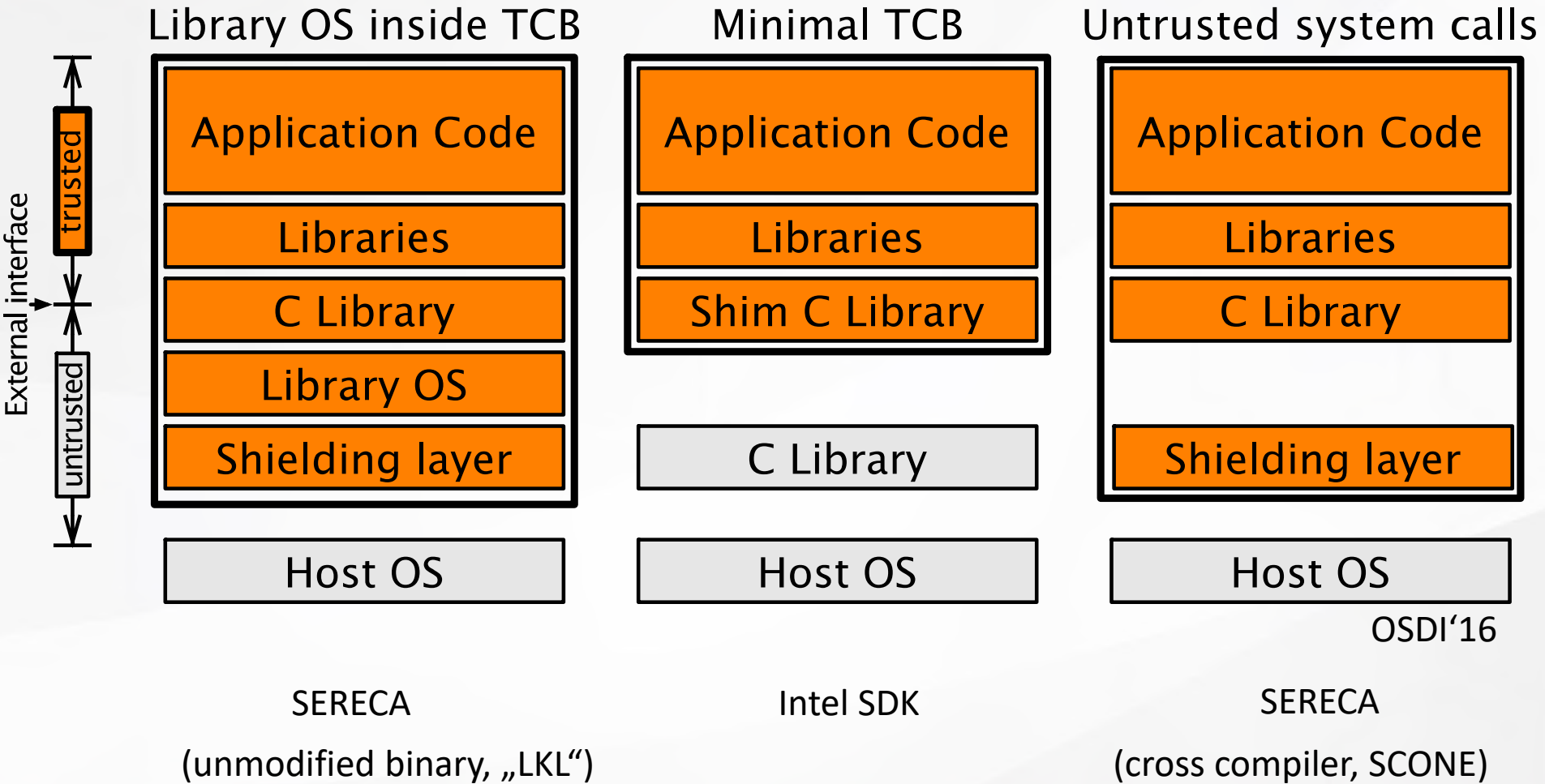
- Application providers trust their application
- They must implicitly trust the cloud provider
- Existing applications implicitly assume trusted systems software



- Objective: Protect the **confidentiality** and **integrity** of applications
  - Even when running in public cloud infrastructure
- Approach:
  - Application-oriented security

- **Secure reactive platform**
  - Execution in untrusted clouds
- **Complete eco system:**
  - Partitioning of applications (Partitioning Framework)
  - Support of standard applications (MySQL, Memcached, Redis, Apache, Nginx, ...)
  - Support of legacy service
    - With recompilation (cross compiler)
    - Binary (LKL work)

# SERECA Architecture



- Cutting edge technology
- Publications in Top Venues (USENIX, ACM, IEEE)
  - Generating lots of academic & industrial interest
- Very well disseminated
  - Several workshops / keynotes
- Exploitation / market:
  - Very good market potential
  - Good time window to commercialize
  - Working on new spin-off for SCONE