



Team Members

- MIT CSAIL & Univ. Penn SEAS
- Lead Investigator: Howard Shrobe
- Current Team Members:
 - Andre DeHon – Univ Penn
 - Thomas Knight – MIT CSAIL
 - John Mallery – MIT CSAIL

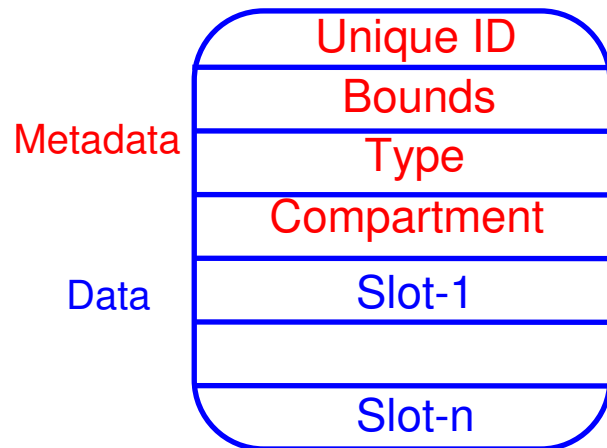


Areas of Research

Hardware-supported, fine-grained, dynamic:

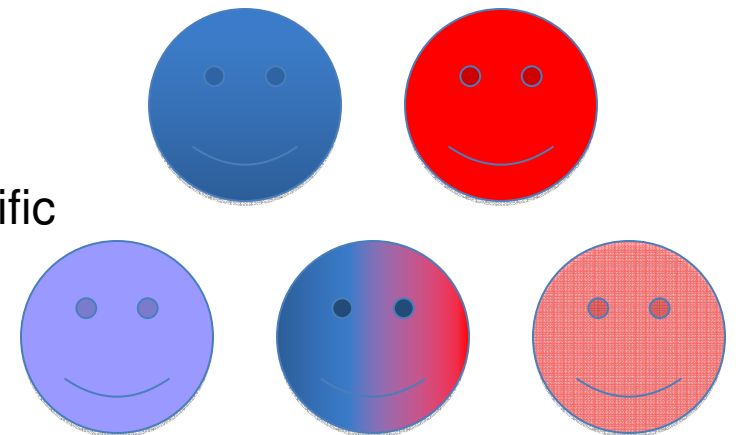
- Confinement, Compartmentalization, Sand-boxing
- Information Flow Tracking
- Execution monitoring, type checking, Access control

Every object carries meta-data
as tags on every word



Access rules limit
principals to access
objects in specific
compartments in specific
ways.

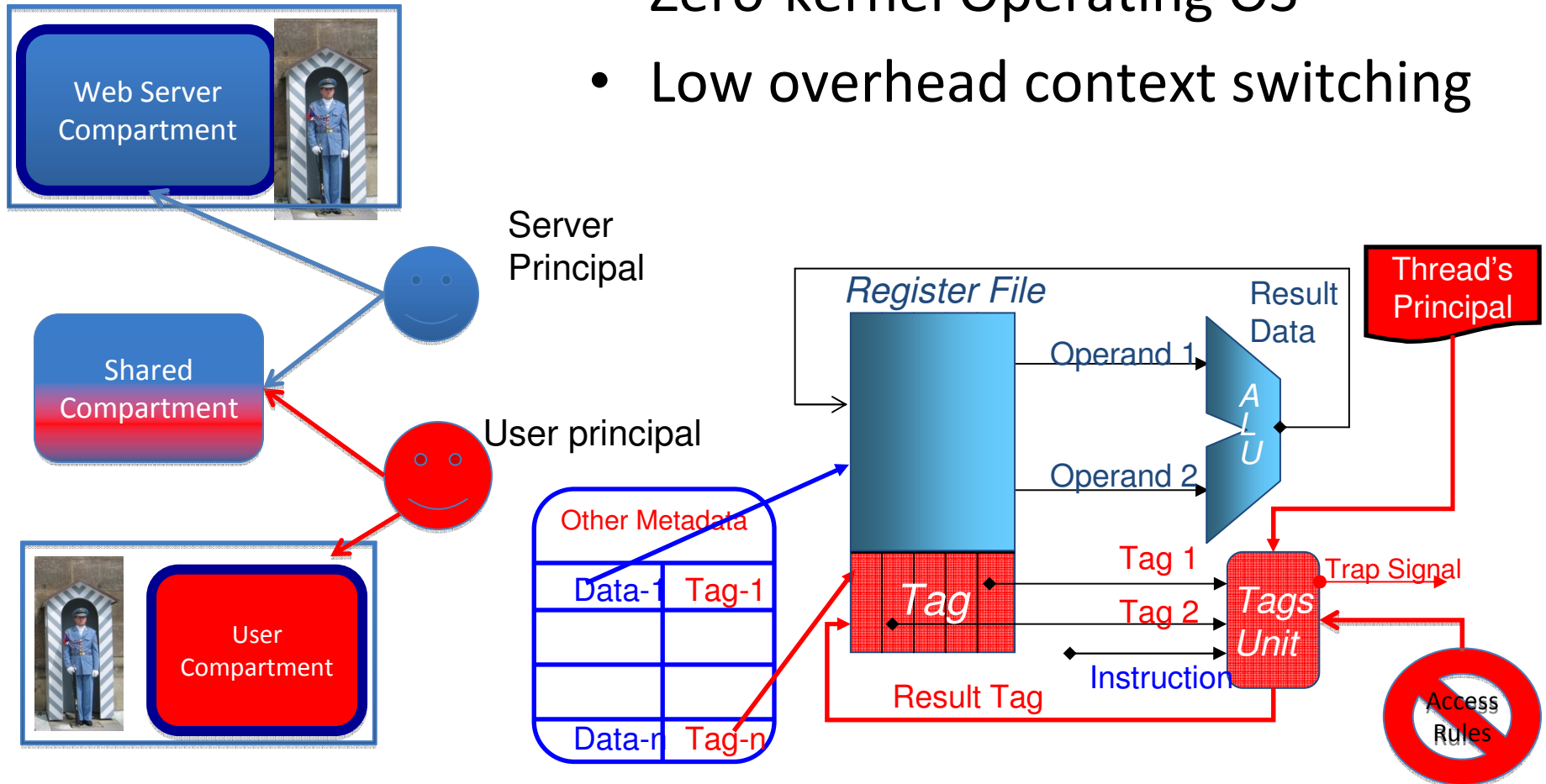
Every thread has a Principal,
representing a specific role
of some entity





Unique Qualifications & Capabilities

- Dynamic hardware enforcement
- Execution monitoring
- Zero-kernel Operating OS
- Low overhead context switching





Capabilities Sought or To Join

- Verification techniques that can benefit from dynamic hardware enforcement
- Emulation capabilities
- Combined static-dynamic enforcement
- Application area expertise



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