WatchIT: Who Watches Your IT Guy?

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1. Motivation

- "God, root, what's the difference?"

- IT can steal valuable data
  - E.g., Edward Snowden

2. Contributions

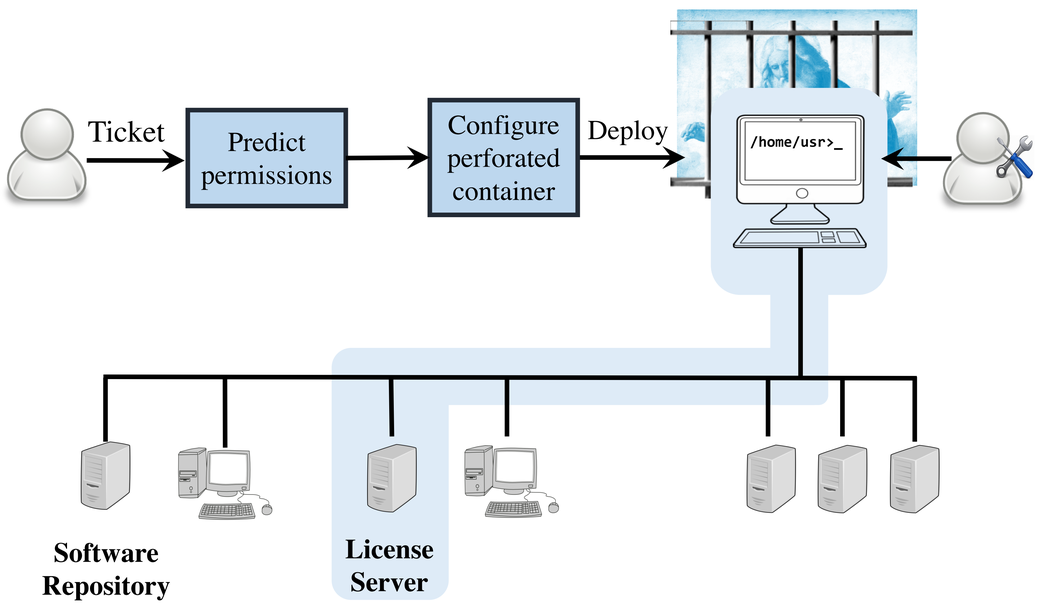
- Strategy for protecting organizations from IT threats.
- WatchIT: A proof of concept implementation.
- Case study on the IBM Research IT Department.

3. Perforated Container

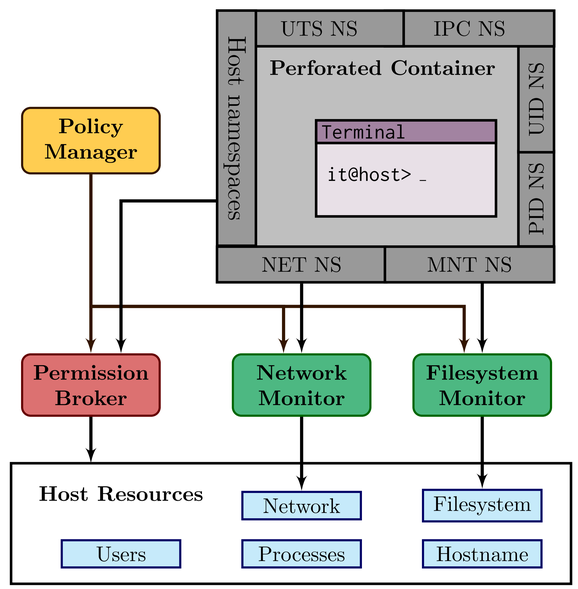
- We introduce *Perforated Linux Container*
  - Like Linux container
  - Punched isolation
  - Shares resources with the host

- Example: license issue
  - Isolated network, filesystem, processes
  - Access license server; home directory

4. WatchIT Work-Flow



5. P-Container as a Sandbox



6. Case Study

IBM Research IT Department

- ~16,000 trouble tickets
- Topic modeling – 10 classes

Topic \ View	Home Directory	Process View	/etc/	License Server
License	✓			✓
Slow Server		✓	✓	
SSH	✓		✓	

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