Third OS Concept: Process

- **Process: execution environment with Restricted Rights**
  - **Address Space with One or More Threads**
  - Owns memory (address space)
  - Owns file descriptors, file system context, …
  - Encapsulate one or more threads sharing process resources
- Why processes?
  - **Protected from each other!**
  - **OS Protected from them**
  - Navigate fundamental tradeoff between protection and efficiency
  - Processes provides memory protection
- Application instance consists of one or more processes