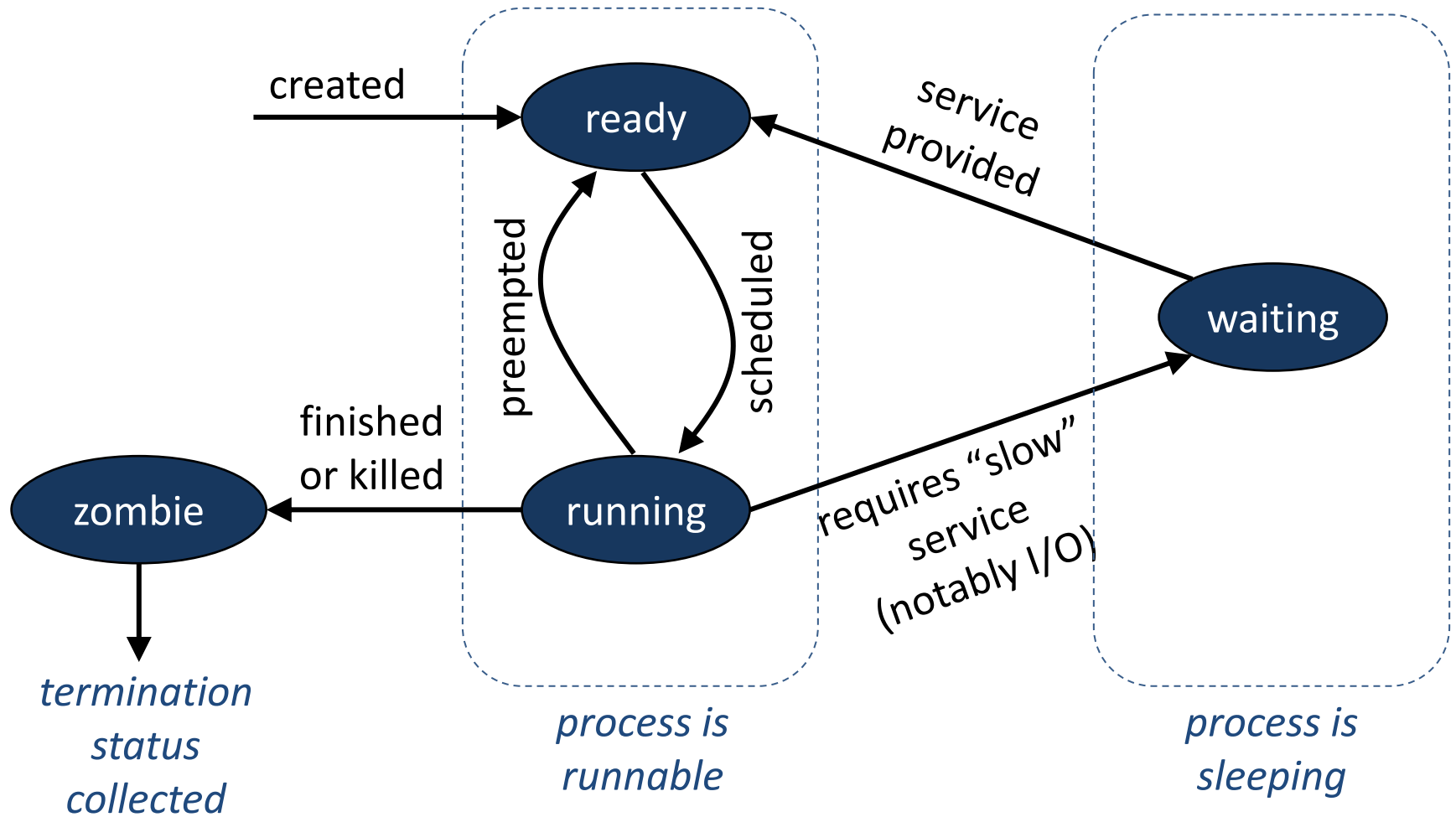


Process states



Process control block (“PCB”)

- **The OS maintains a “state” for every process**
 - Encapsulated in a PCB
- **In Linux**
 - Called a “process descriptor”
 - Of type `task_struct` (C struct)
 - Has $O(100)$ fields
- **Used in context switches**
 - Updated upon preemption
 - Loaded upon resumption
- **Question**
 - Can a process access its own PCB?

- PID (process ID)
- UID (user ID)
- Pointer to address space
- Registers
- Scheduling priority
- Resources usage limits (e.g., memory, CPU, num of open files)
- Resources consumed
- State (previous slide)
- Current/present working directory (`pwd=cwd`)
- Open files table
- ...

process attributes
in PCB