

System Initialization

Memory



Reading: Memory

20 min



Reading: Swap

10 min



Video: Using Swap and OOM (Demo)

4 min



Video: Threading Models

2 min



Reading: Invoking the OOM Killer (Lab)

1h



Quiz: Memory

5 questions

Threading Models

Processes and Threads

- A **process** is a running instance of a program and contains information about environment variables, file descriptors and current directory, etc.
- It can contain one or more **threads**, each of which has the same process ID and shares the same environment, memory regions (except for stack), etc.
- While Linux permits thread (or process) creation through the low level **clone()** system call, the most usual method is to use **pthread_create()** which is part of the standard **POSIX Threads (pthreads)** library