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• Provides Access Control to hardware & memory resources • Provides Dynamic Memory to kernel sub-system o Drivers o File Systems o Stacks • Provides virtual memory to kernel and sser space o Kernel and user processes run in their own virtual address spaces o Providing the various features of a Linux system ? System reliability, Security ? Communication Program ? Execution Support Swapping • Optimizes primary and secondary memory usage • Primary memory pages swapped out o When running out of memory • Secondary memory pages swapped in o When needed back • Linux maintains page cache in primary memory for o Code: Reloadable o Data: Unchanged vs changed o Changed data: Temporary (dynamic) vs persistent (files) • Linux uses swap (raw) partition on secondary memory • Related commands: mkswap, swapon/off

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Title: Linux Memory Management

swapping optimizes primary & secondary memory usage primary memory pages swapped out when running out of memory secondary memory pages swapped in when needed back linux maintains page cache in primary memory for code: reloadable data...

https://www.slideshare.net/anil_pugalia/linux-memory-management