

Modular Monolithic Kernel

LOADABLE MODULES

- INCLUDES VIRTUALLY ALL OF THE OS FUNCTIONALITY IN ONE LARGE BLOCK OF CODE THAT RUNS AS A SINGLE PROCESS WITH A SINGLE ADDRESS SPACE
- ALL THE FUNCTIONAL COMPONENTS OF THE KERNEL HAVE ACCESS TO ALL OF ITS INTERNAL DATA STRUCTURES AND ROUTINES
- LINUX IS STRUCTURED AS A COLLECTION OF MODULES

Relatively independent blocks

A module is an object file whose code can be linked to and unlinked from the kernel at runtime

A module is executed in kernel mode on behalf of the current process

Have two important characteristics:

- dynamic linking
- stackable modules