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[The Linux Kernel Module Programming Guide was originally written for the 2.2 kernels by Ori Pomerantz. Eventually, Ori no longer had time to maintain the document. After all, the Linux kernel is a fast moving target. Peter Jay Salzman took over maintenance and updated it for the 2.4 kernels.](#)

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[So, let's look at a simple Makefile for compiling a module named hello-1.c: Example 2-2. Makefile for a basic kernel module. obj-m += hello-1.o all: make -C /lib/modules/\\$ \(shell uname -r\)/build M=\\$ \(PWD\) modules clean: make -C /lib/modules/\\$ \(shell uname -r\)/build M=\\$ \(PWD\) clean.](#)

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[June 13, 2017 Categories. Linux Certifications 5 Comments. A kernel module is a program which can loaded into or unloaded from the kernel upon demand, without necessarily recompiling it \(the kernel\) or rebooting the system, and is intended to enhance the functionality of the kernel. In general software terms, modules are more or less like plugins to a software such as WordPress.](#)

[How to Load and Unload Kernel Modules in Linux](#)

[Linux Kernel Module Programming Guide is for people who want to write kernel modules. It takes a hands-on approach starting with writing a small "hello, world" program, and quickly moves from there. Far from a boring text on programming, Linux Kernel Module Programming Guide has a lively style that entertains while it educates.An excellent guide for anyone wishing to get started on kernel ...](#)

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[Linux Kernel Programming Basics, Create Loadable Kernel Module What is Linux Kernel? Kernel is the core and central part of the Linux Operating system. It is responsible for the most critical functions of the operating system like process scheduling, memory management, file system management, device handling, networking, interrupt handing etc.](#)

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[Modules can be considered as parts of kernel code. A module never runs by itself, but can be loaded or removed into the kernel while the system is running. Once a module is loaded into the kernel, it behaves like a part of the actual kernel itself. The kernel modules are mainly used to load device drivers.](#)

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[Write modules to insert in kernel to alter the behavior and functionality of Linux kernel. Student should be able to compile linux kernel from git source \(kernel.org\) or download the standalone kernel for compilation](#)

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[Each device is represented in the kernel by a file structure, which is defined in linux/fs.h. Be aware that a file is a kernel level structure and never appears in a user space program. It's not the same thing as a FILE, which is defined by glibc and would never appear in a kernel space function.](#)

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