

Terminology

IOS Internetworking Operating System

CLI Command Line Interface

Device Startup Sequence

Cisco routers and switches generally perform the same steps upon initial startup:

- * Discover device hardware
- * Find and Load IOS image
- * Find and Load configuration file

Memory Types

Flash * Contents of memory are retained even after system is shut down
 * Moderate Size
 * Cisco IOS stored here copied and run from DRAM

NVRAM * Contents of memory are retained even after system is shut down
 Non-Volatile Random Access Memory
 * Small Size
 * Startup-configuration

DRAM * All contents are erased when power is lost
 Dynamic Random Access Memory
 * Large Size
 * IOS is here during run-time
 * Running-configuration

IOS Command Structure

IOS Command Hierarchy

Router> *User (or EXEC) mode*

Router# *Privileged EXEC (or Enable) mode*

Configuration Modes

Router(config)# *Global Configuration Mode*

Router(config-if)# *Interface Configuration Mode*

Router(config-router)# *Router Configuration Mode*

Usage of Exit, End, Ctrl-Z



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