

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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