

Introduction to Cisco Routers

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- Internal components of routers
 - IOS : Internetwork Operating System
 - ROM : bootstrap code (set of instructions to load IOS)
 - FLASH : IOS image loaded at start up
 - NVRAM : start up configuration files
 - RAM : currently running configuration
 - Start up process : ROM loads IOS to FLASH + NVRAM loads RAM
- External components of routers
 - Serial ports (WAN) --> routers to routers
 - Console ports (access) --> management PC to router
 - Ethernet ports (LAN) --> router to switches or PCs
 - Auxiliary ports (modem connectivity) --> router to modem
 - Power ports (electrical power) --> router to electrical socket
- DCE/DTE
 - Data Communication Equipment (ie modem) --> clockrate (bandwidth in kbps) has to be configured
 - Data Terminal Equipment --> no clockrate
 - When 2 routers are linked together, one must be DCE and the other one must be DTE
- 3 modes
 - User mode (= console mode) : basic mode to log in to the route
 - Privilege mode (= enable mode) : mode to check the configuration and write to NVRAM
 - Configuration mode : mode to configure the router and write to RAM

