



Intro to Cisco IOS and CatOS



Keith Bogart

CCIE #4923



- ✉ kbogart@ine.com
- 🐦 [@keithbogart1](https://twitter.com/keithbogart1)
- in [linkedin.com/in/keith-bogart-2a75042](https://www.linkedin.com/in/keith-bogart-2a75042)

CCIE Routing & Switching



Video Overview

- Describe the different operating modes for Cisco CatOS/IOS Software
- Navigate between the different operating modes listed
- Determine the current mode of the device

Introduction to IOS

- » Internetworking Operating System
- » Native software for Cisco routers and switches
- » Cisco develops different IOSs for different platforms
 - Example: Cisco 1841, Cisco 2821, etc.
- » Usually operated through CLI

IOS Operating Modes

» IOS has a 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

What is CatOS?

» Crescendo Communications

- Cisco's first acquisition in 1993
- LAN Switching company with its own OS

» Catalyst 5000/5500 switches

» Operating System used was called, "CatOS"

- "Cat" for "Catalyst"

» End of Support was 2013

CatOS and IOS Comparison

CatOS	IOS
Two modes only (EXEC and Enable)	Multiple Modes of Operation
Commands entered in Enable mode saved automatically.	Changes to Running-Config must be manually saved to Startup-Config
Command Syntax; Most commands begin with the word, “set”	Command syntax varies widely depending on feature/protocol.
“clear” used to erase commands	“no” or “default” used to erase commands

CatOS Examples

CatOS (enable) show config

set prompt Switch-1

!

Set vlan 2 4/1-5

!

set port channel all distribution mac both

!

set port channel 2/1-4 29

!

set trunk 2/1 nonegotiate 802.1Q 1-1005

!

set trunk 4/1 on isl 1-1005