

## CCNA1 Final Exam Study Guide:

- OSI & TCP/IP Models
- Port Numbers
- The TCP/IP protocols we studied and details about them
- Subnetting IPv4 (practice using <http://www.subnettingquestions.com>)
- Subnetting IPv6
- Cabling
- Topologies
- Basic IOS commands
- Basic show commands
- Intermediate device file storage types and uses (ROM, RAM, NVRAM, Flash)
- IPv4 and IPv6 IP address types and subnet masks/prefix lengths
- PDUs
- Switch operations (how frame forwarding decisions are made)
- CIDR notation
- IOS modes/prompts
- Special use IPv4 and IPv6 addresses
- Private vs. Public addresses
- IPv4 address classes
- Fiber optics
- DMZ/IPS/IDS/Firewalls
- CSMA/CD vs. CSMA/CA