Configure and Verify Layer 2 Protocols:

CDP and LLDP, serve the same purpose, identify neighbor devices, LLDP is an industry standard and CDP is Cisco proprietary. CDP is used for many purposes in our current network like device identification and carrying vlan information for cisco devices. The voice vlan in Cisco switches carried by CDP packets to ip phone, if you have other vender such as Avaya phone, you can use LLDP to send the voice vlan information LLDP packets just like CDP.

LLDP	**CDP**
Link Layer Discovery Protocol	Cisco Discovery Protocol
LLDP is a layer two discovery protocol	CDP is a layer two discovery protocol
LLDP is a standard protocol	CDP is Cisco Proprietary protocol
LLDP use TLVs (Type, Length, and Value) to send and receive information to their directly connected neighbors.	CDP use TLVs (Type, Length, and Value) to send and receive information to their directly connected neighbors.
CDP message contains information about port, system name, system capabilities, and management address.	CDP message contains information about Device ID, IP address, port ID, VLAN and hardware platform.
LLDP allows switch ports configured with a voice vlan.	CDPv2 allows switch ports configured with a voice vlan.
LLDP announcements are send to the multicast destination address 01-80-C2-00-00-0e on each interface	CDP announcements are send to the multicast destination address 01-00-0c-cc-cc-cc on each interface
LLDP is disabled by default	CDP is enable by default
LLDP advertisements are sent every 30 sec	CDP advertisements are sent every 60 sec
LLDP hold time advertised is 120 seconds	CDP hold time advertised is 180 seconds
Globally enable LLDP SW(config)#lldp run	Globally enable CDP SW(config)#cdp run
Globally disable LLDP SW(config)#no lldp run	Globally disable CDP SW(config)#no cdp run
Enable LLDP on an interface SW(config-if) #lldp transmit SW(config-if)#lldp receive	Enable CDP on an interface SW(config-if)#cdp enable
N/A	Enable CDP version 2 SW(config)# cdp advertise-v2
SW# show lldp neighbors	SW# show cdp neighbors
SW# show lldp entry *	SW# show cdp entry *
SW# show lldp traffic	SW# show cdp traffic
SW# show lldp	SW# show cdp
SW# show lldp interface	SW# show cdp interface
SW(config)#lldp timer <time_ in_ second>	SW(config)#cdp timer <time_ in_ second>
SW(config)#lldp holdtime <time_ in_ second>	SW(config)#cdp holdtime <time_ in_ second>