



NETWORK MAPPING

Topology Discovery Using CDP



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Network Mapping

Topology (to be drawn by student)

Addressing Table (Filled by the student)

[illegible]

Background

Cisco Discovery Protocol (CDP) is a proprietary Data Link Layer protocol developed by Cisco Systems. It is used to share information about other directly connected Cisco equipment, such as the operating system version and IP address. CDP can also be used for On-Demand Routing, which is a method of including routing information in CDP announcements so that dynamic routing protocols do not need to be used in simple networks.

Cisco devices send CDP announcements to the multicast destination address 01-00-0c-cc-cc-cc, out each connected network interface. These multicast frames may be received by Cisco switches and other networking devices that support CDP into their connected network interface. This multicast destination is also used in other Cisco protocols such as Virtual Local Area Network (VLAN) Trunking Protocol (VTP).

Each Cisco device that supports CDP stores the information received from other devices in a table that can be viewed using the **show cdp neighbors** command. This table is also accessible via Simple Network Management Protocol (SNMP).

Scenario

You have been hired by a company to substitute the network admin they had whom was in a car accident and cannot be contacted. All you have is a piece of paper from his office that contains a username **admin** and a password **pass**. You need to map your network and build the topology and the addressing table.

Required Resources

The file Network Mapping.pka is all you need.

Part 1: Use CDP to map your network

When mapping your network draw on page 1 and fill the addressing table in page 2.