CISCO. 1.2.4.4

Step 1: Opdracht.

* Find the “Configuring Devices Using the Desktop Tab” tutorial. Watch the first part of the tutorial and answer the following question: What information can you configure in the IP Configuration window?
  + Je komt erachter welk IP-adres, subnetmask je hebt. Je weet ook welke DNS server je hebt.

Step 2: Opdracht.

1. In the network topology on the left, click one of the envelopes on an intermediary device and investigate what is inside. Over the course of your CCNA studies, you will learn the meaning of most everything inside these envelopes. For now, see if you can answer the following questions:

* **Under the OSI Model tab, how many In Layers and Out Layers have information?** 
  + In 2 tabellen staat informatie.
* **Under the Inbound PDU Details and Outbound PDU Details tabs, what are the headings of the main sections?** 
  + Onder de inkomende en de uitgaande PDU-details, ze heten ICMP, Ethernet en IP.
* **Click back and forth between the Inbound PDU Details and Outbound PDU Details tabs. Do you see information changing? If so, what?**
  + Ik zie niks veranderen ?

CISCO. 1.2.4.5

Step 1: Opdracht.

* 1. The icon toolbar at the bottom left hand corner has various categories of networking components. You should see categories that correspond to intermediary devices, end devices, and media. The Connections category (with the lightning bolt icon) represents the networking media supported by Packet Packet Tracer. There is also an End Devices category and two categories specific to Packet Tracer. Custom Made Devices and Multiuser Connection.
* List the intermediary device categories:
  + .network devices
  + .end devices
  + .Components
  + .Connections
  + .Misellaneous
  + .Multiuser Connection
  + .Routers
  + .Switches
  + .Hubs
  + .Wireless Devices
  + .Security
  + .WAN Emulation
* Without entering into the Internet cloud or Intranet cloud, how many icons in the topology represent endpoint devices (only one connection leading to them)?
  + Home office, central en branch.
* Without counting the two clouds, how many icons in the topology represent intermediary devices (multiple connections leading to them)?
  + De modem, R4 en R2.
* How many end devices are not desktop computers?
  + Denk aan home office, een laptop, tablet, central server.
* How many different types of media connections are used in this network topology?
  + Home office – 3 types.

Step 2: Opdracht.

1. In Packet Tracer, only the Server-PT device can act as a server. Desktop or Laptop PCs cannot act as a server. Based on your studies so far, explain the client-server model.
   * Het is een server model dat voor samenwerking tussen twee of meerdere programma’s zorgt die op verschillende computers tegelijkertijd kunnen zijn.
2. b. List at least two functions of intermediary devices.
   * Routers en firewalls. Denk hierbij aan de werking van het internet en de veiligheidsmaatregelen.
3. c. List at least two criteria for choosing a network media type.
   * De afstand die het netwerk kan hebben.
   * De plek waar het netwerk wordt geïnstalleerd.

Step 3: Opdracht.

* 1. Explain the difference between a LAN and a WAN. Give examples of each.
  + LAN is voor kleinere (local) netwerkverbindingen, denk aan netwerk in een huis of bijvoorbeeld school. Een WAN verbinding zijn voor grotere netwerkverbindingen, denk aan al het internet in een provincie of in een land.
  1. In the Packet Tracer network, how many WANs do you see?
  + 3.
  1. How many LANs do you see?
  + 6.
  1. The Internet in this Packet Tracer network is overly simplified and does not represent the structure and form of the real Internet. Briefly describe the Internet.
  + Het internet is een extreem groot netwerk op de wereld waar elke computer dat is aangesloten op internet deel kan uitmaken van het netwerk. Je kan informatie krijgen en versturen via sites of computers.
  1. What are some of the common ways a home user connects to the Internet?
  + Via een kabel of DSL.
  1. What are some common methods that businesses use to connect to the Internet in your area?
  + Satteliet mogelijkheden en mobiele telefoons.