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Practica 2.2 2.4 packet tracer resuelto

Part 1: Network Exploration and Evaluation Needing for Static Routing Part 2: Configure Static and Default Routes Part 3: Verify Cisco connections and/or its affiliates. All rights reserved. This document is cisco public information. In this activity, you configure static and default routes. A static route is a route that a network administrator enters manually to create a reliable and secure route. This activity uses four different static routes: a recursive static route, a directly linked static route, a fully specified static route, and a default route. To. Look at the topology diagram. How many networks in total? 5 b. How many networks are directly connected to R1, R2 and R3? R1 needs 3 static routes, R2 needs 2 static routes, and R3 needs 3 static routes . How many static routes does each router require to reach networks that are not directly connected? R1 is 2, R2 is 3, and R3 has 2 . Test lan connections R2 and R3 by pinging from PC1 to PC2 and PC3. Why didn't you succeed? Because static routes are not configured. To. What is a recursive static route? The recursive static route depends on the next routing router for the packets to be sent to the destination. A recursive static route requires two routing table searches. B. Why does a recursive static route require two searches in a routing table? First, you must look in the destination site routing table, and then search for the network interface/output address for the next routing router. . Configure a recursive static route for each network that is not directly connected to R1, including the WAN link between r2 and r3. Route R1 (configurator) #ip 172.31.0.0 255.255.255.0 172.31.1.193 Route R1 (config) #ip 172.31.1.196 255.25 5.255.252 172.31.1.193 Route R1 (configurator) #ip 172.31.1.128 255.255.192 172.31.1.193 d. Test the LAN r2 connection and ping the IP addresses of pc2 and PC3. Why didn't you succeed? R1 has a route of ropes R2 and R3, but R2 and R3 do not have a R1 . How is the connected static route directly different from the recursive static route? Directly connected static route the outbound interface so that packets are sent to the destination, while the recursive static route uses the IP address of the next router salto. . Configure a static route connected directly from R2 to any network that is not directly connected. Route R2 (configurator) #ip 172.31.1.0 255.255.255.128 Serial 0/0/0 Route R2 (config) #ip 172.31.1.128 255.255.255.192 Serial0 / 0/1 c. What command shows only directly connected networks? #show connected IP route d. Which command displays only the static routes listed in the routing table? #show static IP e route. How do I distinguish between a directly connected static route and a directly connected network when viewing an entire routing table? The static route has an S and the directly connected network has C . How is the default route different from the normal static route? The default route, also known as the last instance gateway, is the network path used by the router if there is no other known route for the destination network. A static route is used to route traffic to the específica. . Configure the default route to r3 so that it can reach any network that is not directly connected. R3 (config) #ip route 0.0.0.0 0.0 Serial0 / 0/1 c. How do I display a static route in a routing table? S* 0.0.0.0/0 Note: The Tracer packet does not currently support configuring fully specified static routes. Therefore, in this step, register the configuration for the fully specified routes. To. Explain what a fully specified path is. A fully specified route is a static route that is configured with the output interface and the next routing address b. Which command provides a fully specified static route from R3 to R2 LAN? R3 (config) ? ip route 172.31.0.0 255.255.255.0 s0 / 0/1 172.31.1.197 . Enter the fully specified route from R3 to the network between R2 and R1. Do not configure the route, just calculate it. R3 (config) ? ip route 172.31.1.192 255.255.255.252 s0 / 0/1 d. Enter a fully specified static route from R3 to LAN r1. Do not configure the route, just calculate it. R3 (config) . What display commands can you use to verify the correct configuration of static routes? View ip route, display ip route static, and display ip routing commands [network]. Now all devices should be able to ping all other devices. If not, check the static and default route settings. © 2018 by Cisco and/or its affiliates. All rights reserved. This document is cisco public information. Página 1 de 4 Packet Tracer: Configuración de rutas estáticas y predeterminadas IPv4 Topología Tabla de direccionamiento El administrador Interfaz Dirección IPv4 Máscara de subred Gateway predeterminado R1 G0/0 172.31.1.1 255.255.255.128 N/D S0/0/0 172.31.1.194 255.255.255.252 N/D R2 G0/0 172.31.0.1 255.255.255.0 N/D S0/0/0 172.31.1.193 255.255.255.252 N/D S0/0/1 172.31.1.197 255.255.255.252 N/D R3 G0/0 172.31.1.129 255.255.255.192 N/D S0/0/1 172.31.1.198 255.255.255.252 N/D PC1 NIC 172.31.1.126 255.255.255.128 172.31.1.1 PC2 NIC 172.31.0.254 255.255.255.0 172.31.0.1 PC3 NIC 172.31.1.190 255.255.255.192 172.31.1.129 Objetivos Parte 1: Examinar la red y evaluar la necesidad de routing estático Parte 2: Configurar rutas estáticas y predeterminadas Parte 3: Verificar la conectividad © 2018 Cisco y/o sus filiales. All rights reserved. This document is cisco public information. Page 2 4 Packet Tracer: Configure static and default IPv4 directions basics In this activity, you will configure static and default routes. A static route is a route that a network administrator enters manually to create a reliable and secure route. This activity uses four different static routes: a recursive static route, a directly linked static route, a fully specified static route, and a default route. Part 1: Check the network and assess the need for static routing. Look at the topology diagram. How many networks in total? 5 networks b. How many networks are directly connected to R1, R2 and R3? R1 has 2 R2 network has 3 R3 network has 2 networks c. How many static routes does each router require to reach networks that are not directly connected? R1 requires 3 static routes, R2 needs 2 static routes, and R3 needs 3 static routes. d. Test lan r2 connection and ping from PC1 to PC2 and PC3. Why didn't you succeed? Ping from PC1 to PC2 Ping from PC1 to PC3 Why didn't you succeed? Because there is no route to this network in R1 Part 2: Configure static and default routes Step 1: Configure recursive static routes on R1 a. What is a recursive static route? A recursive static route is configured when we enter the IP address of the next routing of the neighboring router. - This allows the router to perform a second search route to resolve the output interface and enter an additional routing address. B. Why does a recursive static route require two searches in a routing table? Because you must first locate the destination network in the routing table and then look at its interface in the direction of the next routing router network. c. Configure a recursive static route for each network that is not directly connected to R1, including the WAN link between R2 and R3. © 2018 by Cisco and/or its affiliates. All rights reserved. This document is cisco public information. Page 3 4 Packet Tracer: Configure static and default IPv4 d routes. Test the LAN r2 connection and ping the IP addresses of pc2 and PC3. Why didn't you succeed? Ping PC1 on PC2 Ping PC1 on PC3 Why didn't you succeed? Ping fails again because R1 has a route for R2 and R3, but R2 and R3 do not have a route for R1 Step 2: Configure static routes directly connected to R2 and. How is a static route connected directly from a recursive static route different? The directly connected static route depends on the outlet interface to be sent or the packets to be sent to the destination, while the recursive static route trusts the IP address of the next routing router b. Configure a static route connected directly from R2 to any network that is not directly connected. c. With what command are only directly connected networks displayed? d. With what command are only static routes listed in the routing table displayed? Routing?

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