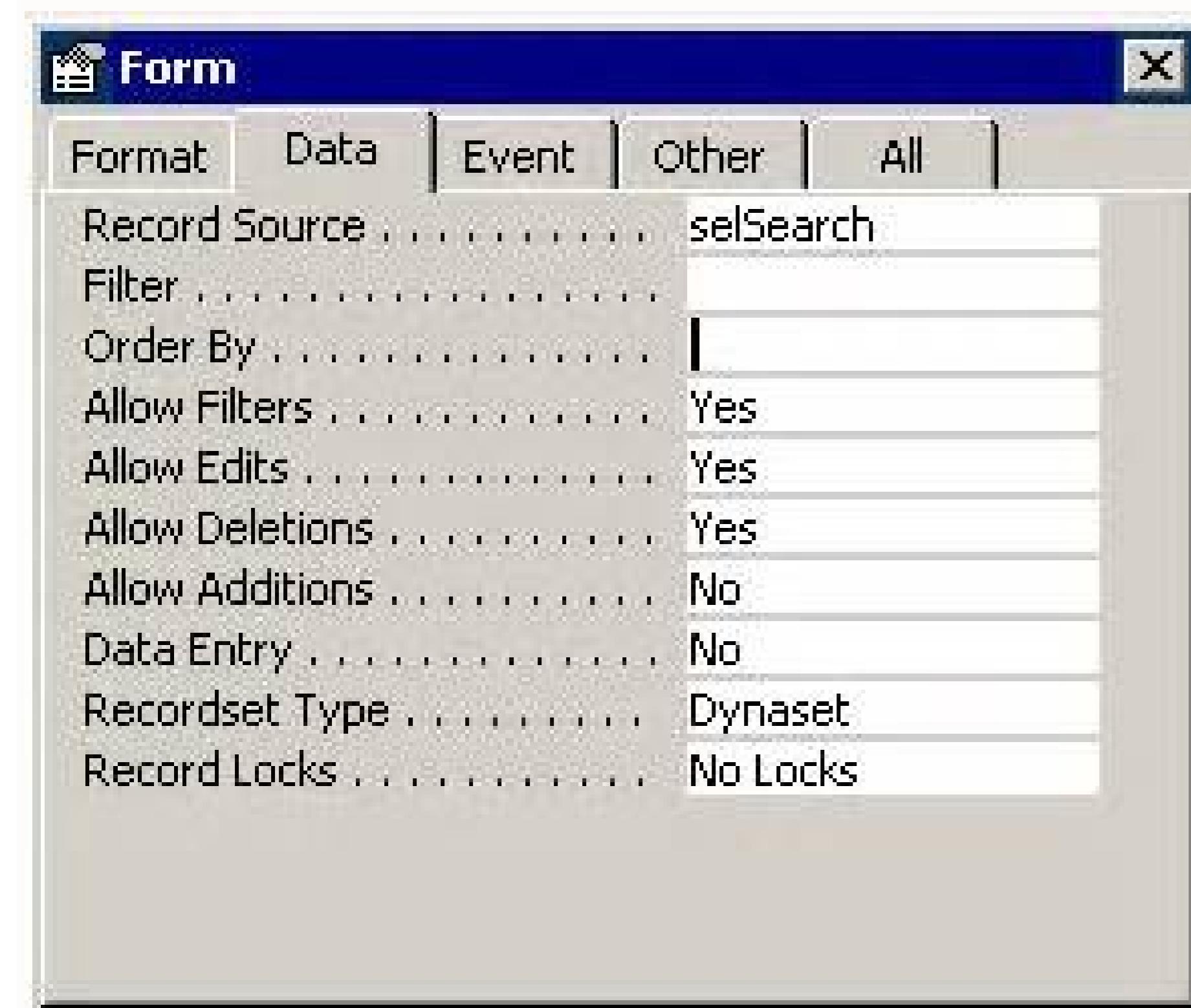I'm not robot

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To learn access lists from the beginning, you can check the previous parts of this tutorial. Configure IP addresses as shown in the above image and test connectivity between sections. Just like the HTTP service, the FTP service is also enabled by default. To view the sequence number of current statements, we can use the 'show ip access-lists' command. Application Protocol Port number Keyword FTP TCP 21 ftp Telnet TCP 23 telnet SMTP TCP 25 smtp HTTP TCP 80 www POP3 TCP 110 pop3 DNS UDP 53 dns TFTP UDP 69 tftp SNMP UDP 161 snmp IP RIP UDP 520 rip Creating an extended access list There are two commands to create an extended access list. We also have to update the IP configuration on PCs to make them DNS clients. deny ip 10.0.0.0 0.255.255.255 host 30.0.0.10 Block a packet if its source address is from the network 10.0.0.0/8 and the destination address is 30.0.0.10. To verify that the Marketing section can access the DNS service running on Server0 and can access the Management section, you can send ping requests to a PC of the Management section from PC0. The following image shows testing from PC0. These commands are 'access-list' and 'ip access-list'. Check the sequence number of the statement that denies all traffic to the destination 30.0.0.10. A statement that allows access to the DNS service. deny ip 10.0.0.0 0.255.255.255 any Block a packet if its source address is from the network 10.0.0.0/8 and the destination address is from any network. A statement that blocks access to all other services. To insert a statement that allows FTP traffic, use a sequence number that is lower than the sequence number of the deny statement. We use the port number of an application to match the traffic of that application. If you can't replicate this lab or need a ready-to-use lab, you can download and use the following pre-created lab.
{"cookieName":"wBounce","isAggressive":false,"isSitewide":true,"hesitation":"1000","openAnimation":false,"exitAnimation":false,"timer":"","sensitivity":"","cookieExpire":"","cookieDomain":"","autoFire":"","isAnalyticsEnabled":false} This tutorial explains how to create, apply, update and delete a named extended access list. Extended access lists are flexible. For testing, a default account is also created. Understanding requirements To fulfill the above requirements, we have to add the following statements to the extended access list. Testing/verifying the extended access list To verify that the Marketing section can access the webserver running on Server0, you can access a web page from the webserver. Router(config)#ip access-list extended BlockMarketing Router(config-ext-nacl)#permit tcp 10.0.0.0 0.255.255.255 host 30.0.0.10 eq 80 Router(config-ext-nacl)#permit udp 10.0.0.0 0.255.255.255 host 30.0.0.10 eq 53 Router(config-ext-nacl)#deny ip 10.0.0.0 0.255.255.255 host 30.0.0.10 Router(config-ext-nacl)#permit ip 10.0.0.0 0.255.255.255 20.0.0.0 0.255.255.255 Router(config-ext-nacl)#deny ip 10.0.0.0 0.255.255.255 any Router(config-ext-nacl)#exit Router(config)#interface gigabitethernet 0/0 Router(config-if)#ip access-group BlockMarketing in Router(config-if)#exit Router(config)#exit Router# The above commands create an extended access list BlockMarketing and apply it to the GigabitEthernet 0/0 interface in the inward direction. The Marketing section's traffic enters the network from the Gig0/0 interface of the router. Some applications also use keywords. We will implement an extended ACL on this interface with the above statements. End with CNTL/Z. These services are HTTP, FTP, and DNS. Port numbers/names To keep each application's data separate from other applications, TCP and UDP assign a unique numeric value to each application. The following link provides the updated packet tracer lab. Requirements Create an extended access list that allows the Marketing section to access only the web service and DNS service from the Server. We have to enable it. To send ping requests, instead of using the IP address of the PC, use the name of the PC. The following image shows how to perform this test on PC0. The FTP service requires authentication. The request must be blocked by the ACL. They support many options and parameters to define criteria in statements. To enable it, select the 'On' option. Configured Packet Tracer Lab The following link provides the configured packet tracer lab of the above example. In this tutorial, we will discuss how to define criteria for layer-4 protocols in extended access lists. The Marketing section should not be allowed to access any other services running on the Server. An extended list is applied near to the source. The following table lists port numbers and names for some most common applications. To verify that the Marketing section can't access any other services running on the Server, you can access the FTP service running on the Server from PC0. In an IP network, two protocols work on layer 4. We will learn how to create an extended access list for both protocols. We don't need to make any changes to enable this service. If a keyword is available, you can use the keyword in the place of the port number. Add the DNS server's IP address to the IP configuration of PCs. The following image shows how to set the DNS server's IP address on PC0. We have already discussed the 'access-list' command in the previous part of this article. The following commands perform the above tasks. After updating the DNS server's IP address, verify that PC0 can access all three services. To verify that the Marketing section can access the FTP service running on Server. The username and password for this account are 'cisco' and 'cisco', respectively. In the next tutorial, we will learn how to create, implement, and verify a named extended access list. For this, we have to create an allow statement and will have to insert this statement before the statement that denies all traffic to the Server. The following image verifies that PC0 can access web service running on Server0. The HTTP service is already enabled. In this part, we will use the 'ip access list' command to create the extended access list. A statement that allows access to the Management section. We also need to add some records. Learn the Extended access list management through a packet tracer example. The following table lists the meaning of these statements. Access the command line interface of the Router and run the following commands. Statements Description/action permit tcp 10.0.0.0 0.255.255.255 host 30.0.0.10 eq 80 Allow a packet if its source address is from the network 10.0.0.0/8 and the destination address is 30.0.0.10 and the destination application is HTTP. Download Packet Tracer Lab with ACL Configuration Updating the extended ACL Now suppose, we want to allow the Marketing section to access the FTP service running on the Server. The access list contains five statements. By default, the DNS service is not enable. From these services, we will use three services to test layer-4 connectivity. In our example, we want to filter the traffic that originates from the Marketing section. The ping command will use the DNS service running on Server0 to resolve the name to the IP address and then will send ping requests to the IP address. A statement that allows access to the web service. This way, you can verify both requirements with a single command. Since keywords are not available for all applications, it is recommended to use port numbers instead of names. Server0 includes many services. If PC0 can access the FTP server running on Server, it verifies that the ACL has been successfully updated for the new requirement. permit ip 10.0.0.0 0.255.255.255 20.0.0.0 0.255.255.255 Allow a packet if its source address is from the network 10.0.0.0/8 and the destination address is from the network 20.0.0.0/8. Router(config)#ip access-list extended BlockMarketing Router(config-ext-nacl)#21 permit tcp 10.0.0.0 0.255.255.255 host 30.0.0.10 eq 21 Router(config-ext-nacl)#exit Router(config)#exit Router# Router#show ip access-lists Extended IP access list BlockMarketing 10 permit tcp 10.0.0.0 0.255.255.255 host 30.0.0.10 eq www 20 permit udp 10.0.0.0 0.255.255.255 host 30.0.0.10 eq domain 21 permit tcp 10.0.0.0 0.255.255.255 host 30.0.0.10 eq ftp 30 deny ip 10.0.0.0 0.255.255.255 host 30.0.0.10 40 permit ip 10.0.0.0 0.255.255.255 20.0.0.0 0.255.255.255 50 deny ip 10.0.0.0 0.255.255.255 any Router# The following image shows how to run the above commands on the Router. Download updated Packet Tracer Lab with ACL Configuration That's all for this tutorial. The following image shows this process. permit udp 10.0.0.0 0.255.255.255 host 30.0.0.10 eq 53 Allow a packet if its source address is from the network 10.0.0.0/8 and the destination address is 30.0.0.10 and the destination application is DNS. Router>enable Router#show ip access-lists Extended IP access list BlockMarketing 10 permit tcp 10.0.0.0 0.255.255.255 host 30.0.0.10 eq www 20 permit udp 10.0.0.0 0.255.255.255 host 30.0.0.10 eq domain 30 deny ip 10.0.0.0 0.255.255.255 host 30.0.0.10 40 permit ip 10.0.0.0 0.255.255.255 20.0.0.0 0.255.255.255 50 deny ip 10.0.0.0 0.255.255.255 any Router#configure terminal Enter configuration commands, one per line. These protocols are TCP and UDP. Router>enable Router#configure terminal Enter configuration commands, one per line. This value is known as the port number. To test connectivity, you can use the 'ping' command. Download Packet Tracer Lab with Initial Configuration This lab includes all the above configurations. The following image shows how to execute the above commands on the Router. Now, this lab is ready. For example, you can use a source address, a destination address, a layer-3 protocol, and a layer-4 protocol. The following image verifies that PC0 can access FTP and DNS services running Server0. To add a record, specify the name and IP address of the device and click the Add and Save buttons. A statement that blocks all other traffic. For this tutorial, I assume that you know what access lists are and how they work. Open the command prompt on PC0 and access the FTP server running on Server. Setting up a practice lab Create a practice lab on Packet Tracer as shown in the following image.

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