SCRIPT

Hello, guys. Welcome to the video tutorial on how to configure access control list or acl on cisco packet tracer

So we will use this topology to make the configurations. So we have three routers, three switch and 8 PCs.

So let's look at here. For our router we will use the 1841. Open the router, turn off the device, choose WIC-2T and then turn it back on.

Then next is the switch. We will use the 2960 switch and then the end devices. So in this part (switch 1), we have 4 devices, switch 2 has 2 and switch 3 as well.

Next, we will put the connection of each devices. We will use copper straight-through cable.

And then next we will use serial DTE to connect router to a router.

And then we have the network. So here we have the 192.168.0.0 and then here is 192.168.1.0 and we have here 192.168.2.0 and here is 192.168.3.0 and then last on is 192.168.4.0

So, here. Let's change the name.

Next we will configured the IP addresses of the devices or PCs.

So in network 192.168.0.0, 2 devices here is from the IT department and then this part here is HR. Then in 192.168.3.0 part is HR. Lastly, 192.168.4.0 is in IT department.

So we have to make sure that the only devices that can communicate is only HR to HR. So the IT here cannot communicate with the HR here but IT can communicate to IT and same as well in HR.

So now, we will configure the IP address.

PC1 is 192.168.0.2

Subnet Mask is 255.255.255.0

Default Gateway is 192.168.0.1

PC2 is 192.168.0.3

Subnet Mask is 255.255.255.0

Default Gateway is 192.168.0.1

PC3 is 192.168.0.4

Subnet Mask is 255.255.255.0

Default Gateway is 192.168.0.1

PC4 is 192.168.0.5

Subnet Mask is 255.255.255.0

Default Gateway is 192.168.0.1

PC5 is 192.168.3.2

Subnet Mask is 255.255.255.0

Default Gateway is 192.168.3.1

PC6 is 192.168.3.3

Subnet Mask is 255.255.255.0

Default Gateway is 192.168.3.1

PC7 is 192.168.4.2

Subnet Mask is 255.255.255.0

Default Gateway is 192.168.4.1

PC8 is 192.168.4.3

Subnet Mask is 255.255.255.0

Default Gateway is 192.168.4.1

Next we will configure the router. So to make it faster, we will just go to R1, config then fastEthernet 0/0. We will put the ip address 192.168.0.1. Next is the serial 0/1/0 is 192.168.1.2. And then next here in R2, go the config choose serial0/0/1 then put 192.168.1.3. Then here in serial0/1/1 put 192.168.2.1. In fa0/0 put 192.168.3.1. Next in R3, go to config and choose fa0/0 then put 192.168.4.1. In serial0/0/0 put 192.168.2.2. And there you go.

Next we will configure the router rip. So shortcut for router rip let's just go to config and then we're just going to add the network. So this… the network connected to this particular router.

R1: 192.168.1.0 and 192.168.0.0

R2: 192.168.1.0, 192.168.2.0 and 192.168.3.0

R3: 192.168.2.0 and 192.168.4.0

So let's try to ping test. So PC1 to HR is successful. Then PC1 to IT is successful. Then HR to HR is successful.

So our objective is the IT here (PC1 and PC2) cannot communicate with the HR. You can see that they can still communicate with each other. So using acl, the PC from this IT department cannot communicate to the PC in HR department.

So let's configure the acl of the router 1. Go to CLI then type this commands:

enable

config t

no access-list 1

access-list 1 permit any

int se0/1/0

ip access-group 1 out

do wr

Next in R2, type this command

enable

config t

no access-list 1

access-list 1 deny host 192.168.0.2

access-list 1 deny host 192.168.0.3

access-list 1 permit any

int fa0/0

ip access-group 1 out

do wf

Last in R3, type this commands:

enable

config t

no access-list 1

access-list 1 deny host 192.168.0.4

access-list 1 deny host 192.168.0.5

access-list 1 permit any

int fa0/0

ip access-group 1 out

int se0/0/0

ip access-group 1 in

do wr

So that’s it, let’s try to ping this the connectivity.

[Ping test Result]

And that’s it. So by configuring ACL, PC1 and PC2 cannot communicate with PC5 and PC6. Vice versa with PC3 and PC4 to PC7 and PC8. Thank you.