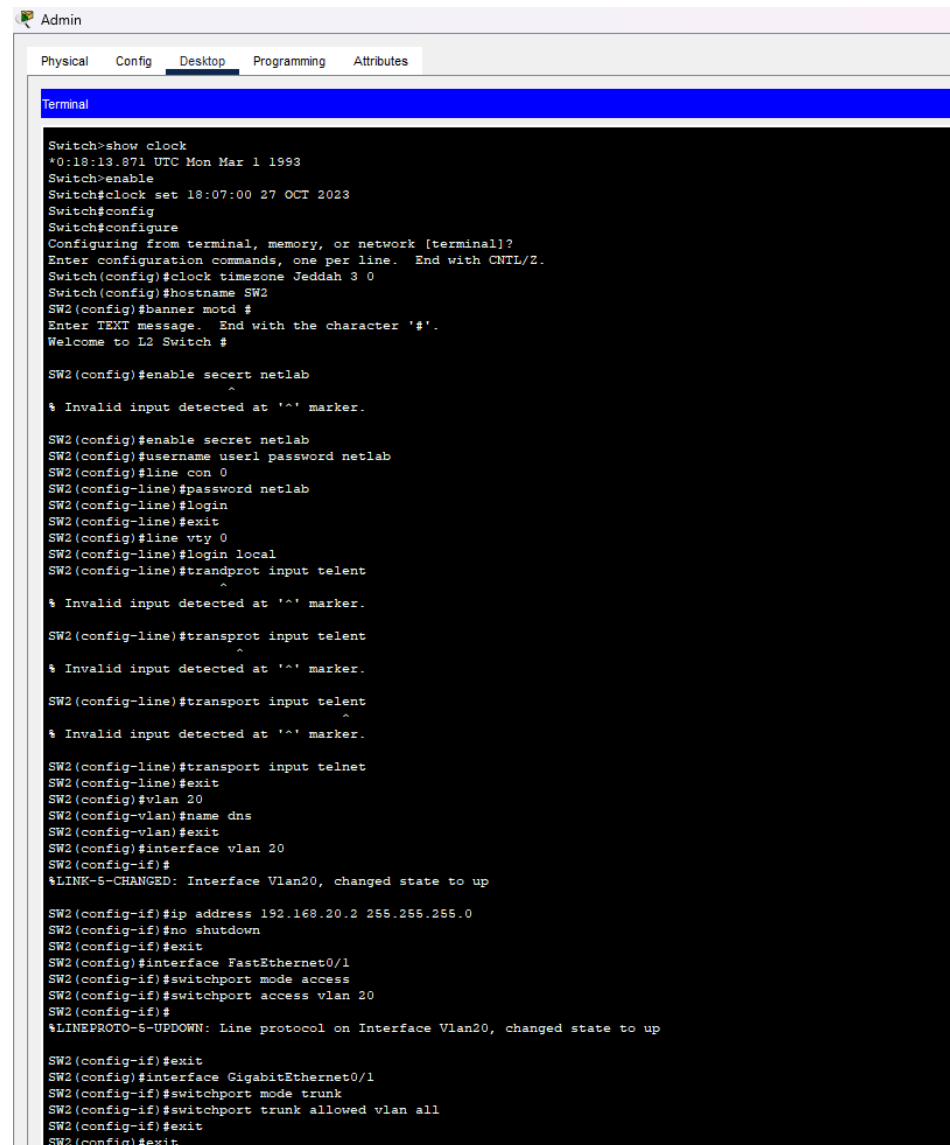


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Admin Laptop showing any switch configuration:



The screenshot shows a terminal window titled 'Admin' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Terminal' tab is active, displaying a series of commands and their outputs for configuring a switch (SW2). The configuration includes setting the clock, enabling the terminal, setting the time zone to Jeddah, configuring the hostname to SW2, setting a banner, enabling secret passwords, configuring usernames and passwords for console and vty lines, and configuring interfaces Vlan20 and GigabitEthernet0/1.

```
Switch>show clock
*0:18:13.871 UTC Mon Mar 1 1993
Switch>enable
Switch>clock set 18:07:00 27 OCT 2023
Switch>config
Switch>configure
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#clock timezone Jeddah 3 0
Switch(config)#hostname SW2
SW2(config)#banner motd #
Enter TEXT message. End with the character '#'.
Welcome to L2 Switch #

SW2(config)#enable secret netlab
^
% Invalid input detected at '^' marker.

SW2(config)#enable secret netlab
SW2(config)#username user1 password netlab
SW2(config)#line con 0
SW2(config-line)#password netlab
SW2(config-line)#login
SW2(config-line)#exit
SW2(config)#line vty 0
SW2(config-line)#login local
SW2(config-line)#transport input telnet
^
% Invalid input detected at '^' marker.

SW2(config-line)#transport input telnet
^
% Invalid input detected at '^' marker.

SW2(config-line)#transport input telnet
^
% Invalid input detected at '^' marker.

SW2(config-line)#transport input telnet
SW2(config-line)#exit
SW2(config)#vlan 20
SW2(config-vlan)#name dns
SW2(config-vlan)#exit
SW2(config)#interface vlan 20
SW2(config-if)#
%LINK-5-CHANGED: Interface Vlan20, changed state to up

SW2(config-if)#ip address 192.168.20.2 255.255.255.0
SW2(config-if)#no shutdown
SW2(config-if)#exit
SW2(config)#interface FastEthernet0/1
SW2(config-if)#switchport mode access
SW2(config-if)#switchport access vlan 20
SW2(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan20, changed state to up

SW2(config-if)#exit
SW2(config)#interface GigabitEthernet0/1
SW2(config-if)#switchport mode trunk
SW2(config-if)#switchport trunk allowed vlan all
SW2(config-if)#exit
SW2(config)#exit
```

Figure 1:Switch 2 configuration

Admin Laptop showing router R1 configuration:

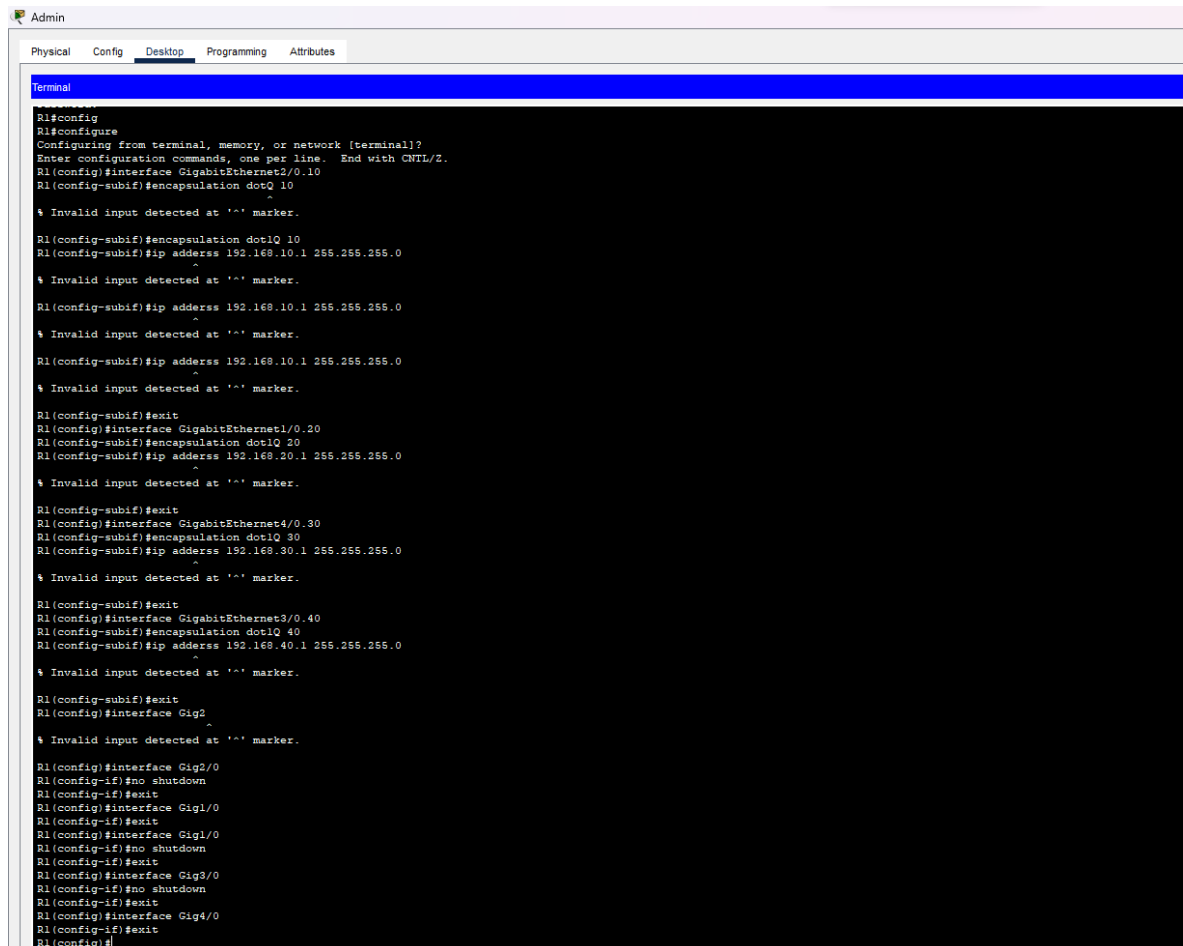
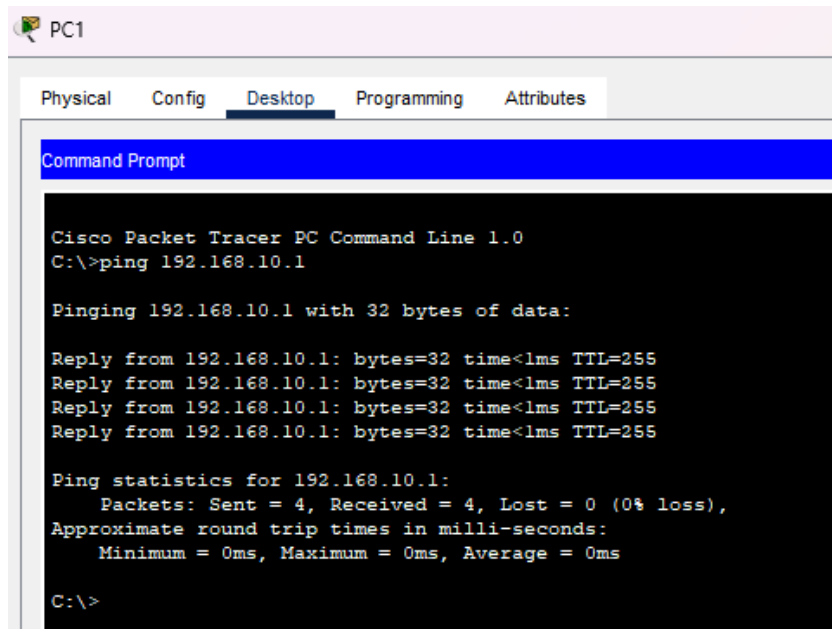


Figure 2: R1 configuration

command prompt from all PCs showing successful ping between PC and Router :

pc1:



The screenshot shows the Cisco Packet Tracer PC Command Line interface for PC1. The 'Desktop' tab is selected. The command prompt displays the output of a ping command to 192.168.10.1. The output shows four successful replies with 32 bytes of data, a time of less than 1ms, and a TTL of 255. The ping statistics show 4 packets sent, 4 received, and 0 lost (0% loss). The approximate round trip times are 0ms for minimum, maximum, and average.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.1

Pinging 192.168.10.1 with 32 bytes of data:

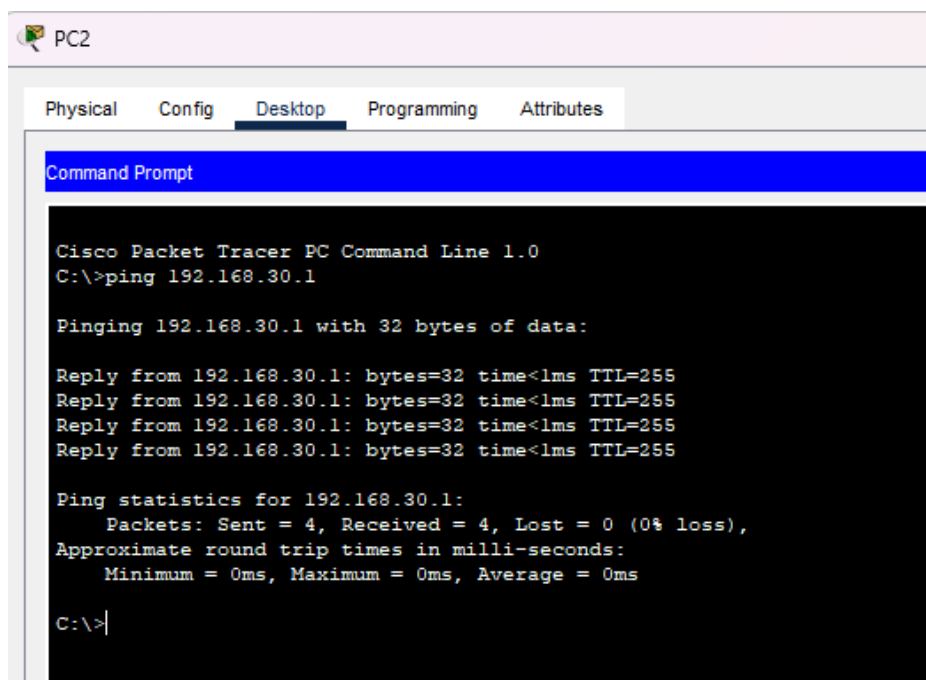
Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
Reply from 192.168.10.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Figure 3: ping between PC1 and Router

Pc2:



The screenshot shows the Cisco Packet Tracer PC Command Line interface for PC2. The 'Desktop' tab is selected. The command prompt displays the output of a ping command to 192.168.30.1. The output shows four successful replies with 32 bytes of data, a time of less than 1ms, and a TTL of 255. The ping statistics show 4 packets sent, 4 received, and 0 lost (0% loss). The approximate round trip times are 0ms for minimum, maximum, and average.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.30.1

Pinging 192.168.30.1 with 32 bytes of data:

Reply from 192.168.30.1: bytes=32 time<1ms TTL=255
Reply from 192.168.30.1: bytes=32 time<1ms TTL=255
Reply from 192.168.30.1: bytes=32 time<1ms TTL=255
Reply from 192.168.30.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.30.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```

Figure 4: ping between PC2 and Router

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Pc3:

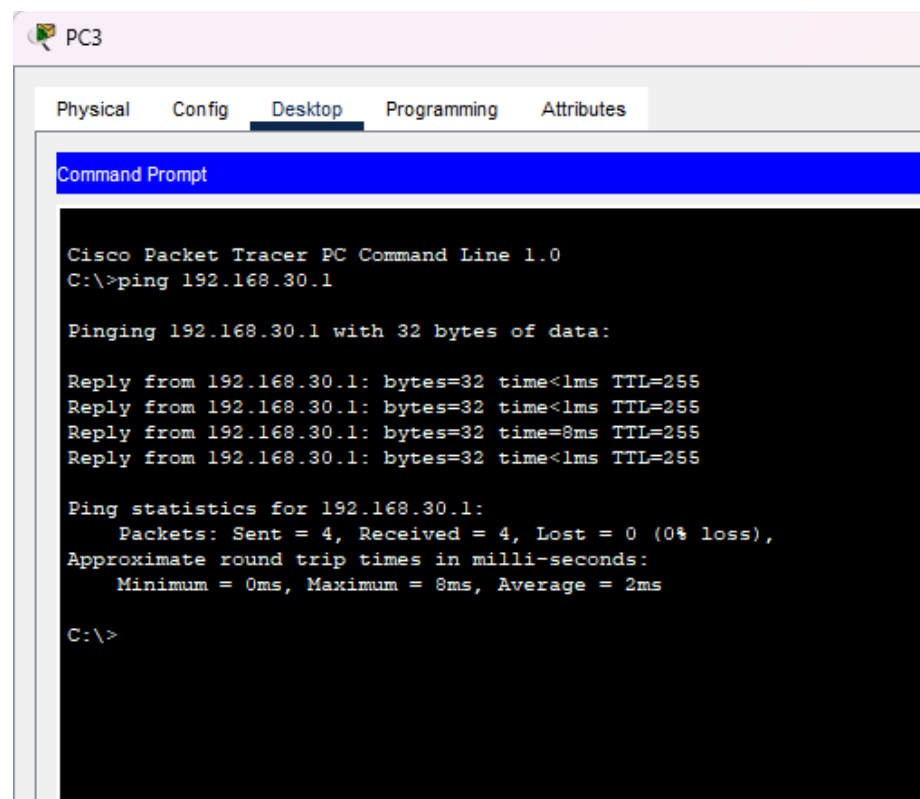


Figure 5: ping between PC3 and Router

Pinging DNS_Server from PC1:

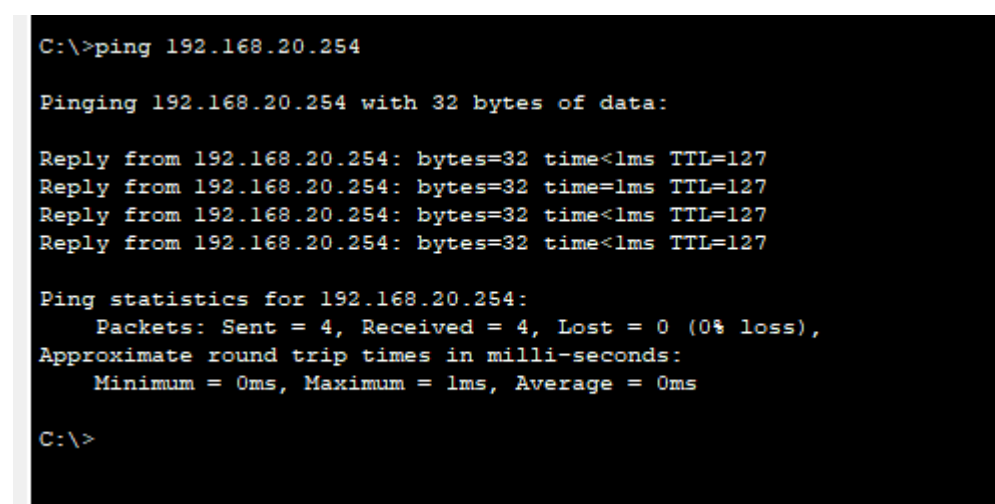


Figure 6: Pinging DNS_Server from PC1

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Pinging Web_Server from PC1:

```
C:\>ping 192.168.40.254

Pinging 192.168.40.254 with 32 bytes of data:

Reply from 192.168.40.254: bytes=32 time<1ms TTL=127
Reply from 192.168.40.254: bytes=32 time=1ms TTL=127
Reply from 192.168.40.254: bytes=32 time<1ms TTL=127
Reply from 192.168.40.254: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.40.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Figure 7: Pinging Web_Server from PC1

Web Browser from all PCs showing the web page:

PC1:

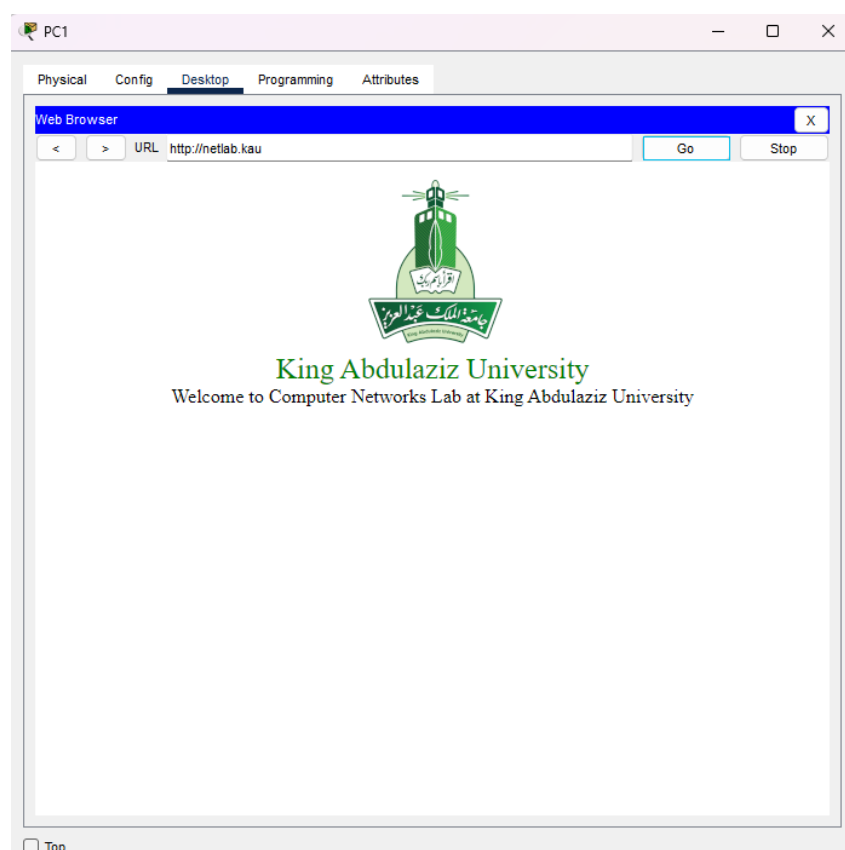


Figure 8: Web Browser PC1 showing the web page

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Pc2:

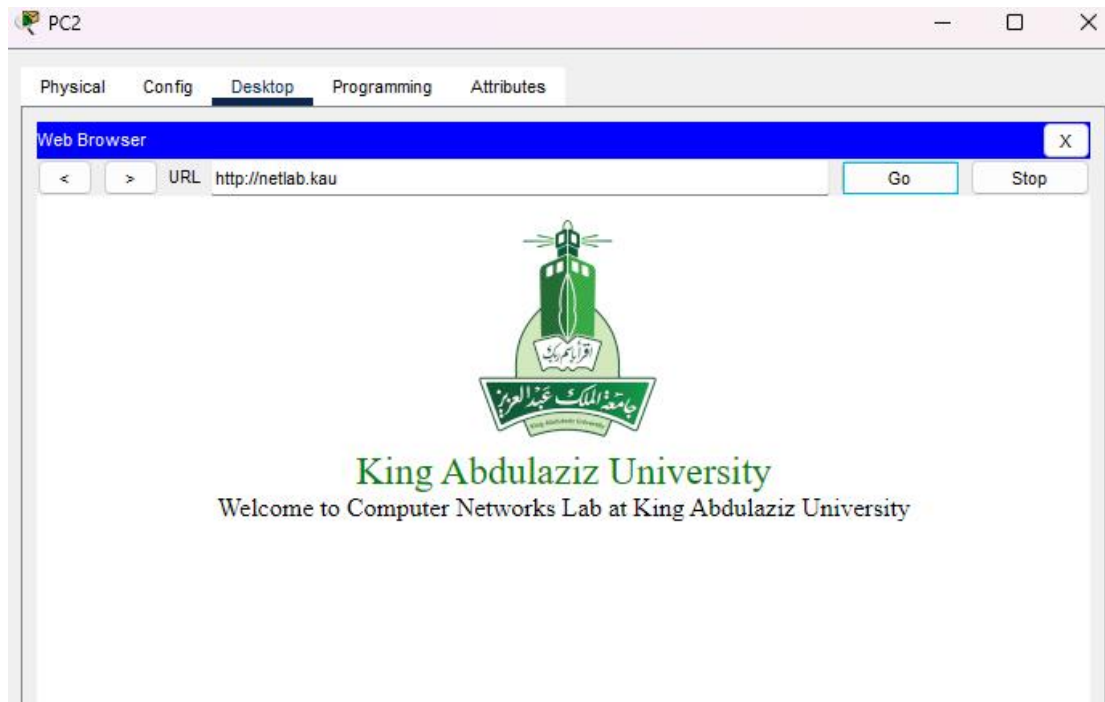


Figure 9: Web Browser PC2 showing the web page