



King Abdulaziz University

Faculty of Engineering

EE462



Lab 1 Report: Evaluation #1

Tuesday 3 PM to 5 PM

Team 6

Student Name	ID
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1. Switch Configuration

```
Building configuration...

Current configuration : 1491 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname SW3
!
enable secret 5 $1$mERr$kdDYIbB9JXvcGsjsbquLSN.
!
!
!
clock timezone Jeddah 3
!
!
username user1 privilege 1 password 0 netlab
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
 switchport access vlan 30
 switchport mode access
!
interface FastEthernet0/2
!
interface FastEthernet0/3
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
 switchport access vlan 30
 switchport mode access
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
```

```
!
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
  switchport mode trunk
!
interface GigabitEthernet0/2
!
interface Vlan1
  no ip address
  shutdown
!
interface Vlan30
  ip address 192.168.30.2 255.255.255.0
!
banner motd ^C Welcome to L2 Switch ^C
!
!
!
line con 0
  password netlab
  login
  history size 256
!
line vty 0 4
  login local
  transport input telnet
line vty 5 15
  login
!
!
!
!
end
```

2. Router Configuration

```
R1#show running-config
Building configuration...

Current configuration : 1488 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname R1
!
!
!
enable secret 5 $1$mERr$kdDYIbB9JXvcGsjsbquLSN.
!
!
!
clock timezone Jeddah 3
!
!
!
!
no ip cef
no ipv6 cef
!
!
!
username user1 password 0 netlab
!
!
!
!
!
!
!
!
!
!
ip domain-name netlab.kau
!
!
!
!
!
!
!
!
interface GigabitEthernet0/0
no ip address
duplex auto
speed auto
!
interface GigabitEthernet1/0
no ip address
duplex auto
speed auto
!
interface GigabitEthernet1/0.20
description Sub-interface for vlan 20
encapsulation dot1Q 20
ip address 192.168.20.1 255.255.255.0
!
interface GigabitEthernet2/0
```

```
!
interface GigabitEthernet2/0.10
  description Sub-interface for vlan 10
  encapsulation dot1Q 10
  ip address 192.168.10.1 255.255.255.0
!
interface GigabitEthernet3/0
  no ip address
  duplex auto
  speed auto
!
interface GigabitEthernet3/0.40
  description Sub-interface for vlan 40
  encapsulation dot1Q 40
  ip address 192.168.40.1 255.255.255.0
!
interface GigabitEthernet4/0
  no ip address
  duplex auto
  speed auto
!
interface GigabitEthernet4/0.30
  description Sub-interface for vlan 30
  encapsulation dot1Q 30
  ip address 192.168.30.1 255.255.255.0
!
ip classless
!
ip flow-export version 9
!
!
!
banner motd ^C Welcome to Router R1 ^C
!
!
!
!
line con 0
  history size 256
  password netlab
  login
!
line aux 0
!
line vty 0
  login local
  transport input ssh
line vty 1 4
  login
!
!
!
end
```

Pinging connectivity test

From PC1 to R1:

```
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:\>|
```

From PC2 to R1:

```
C:\>ping 192.168.20.1

Pinging 192.168.20.1 with 32 bytes of data:

Reply from 192.168.20.1: bytes=32 time<1ms TTL=255
Reply from 192.168.20.1: bytes=32 time<1ms TTL=255
Reply from 192.168.20.1: bytes=32 time<1ms TTL=255
Reply from 192.168.20.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.20.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

From PC3 to R1:

```
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:\>|
```

From PC1 to DNS Server:

```
C:\>ping 192.168.20.254

Pinging 192.168.20.254 with 32 bytes of data:

Reply from 192.168.20.254: bytes=32 time<1ms TTL=127
Reply from 192.168.20.254: bytes=32 time<1ms TTL=127
Reply from 192.168.20.254: bytes=32 time<1ms TTL=127
Reply from 192.168.20.254: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.20.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

From PC1 to Web server:

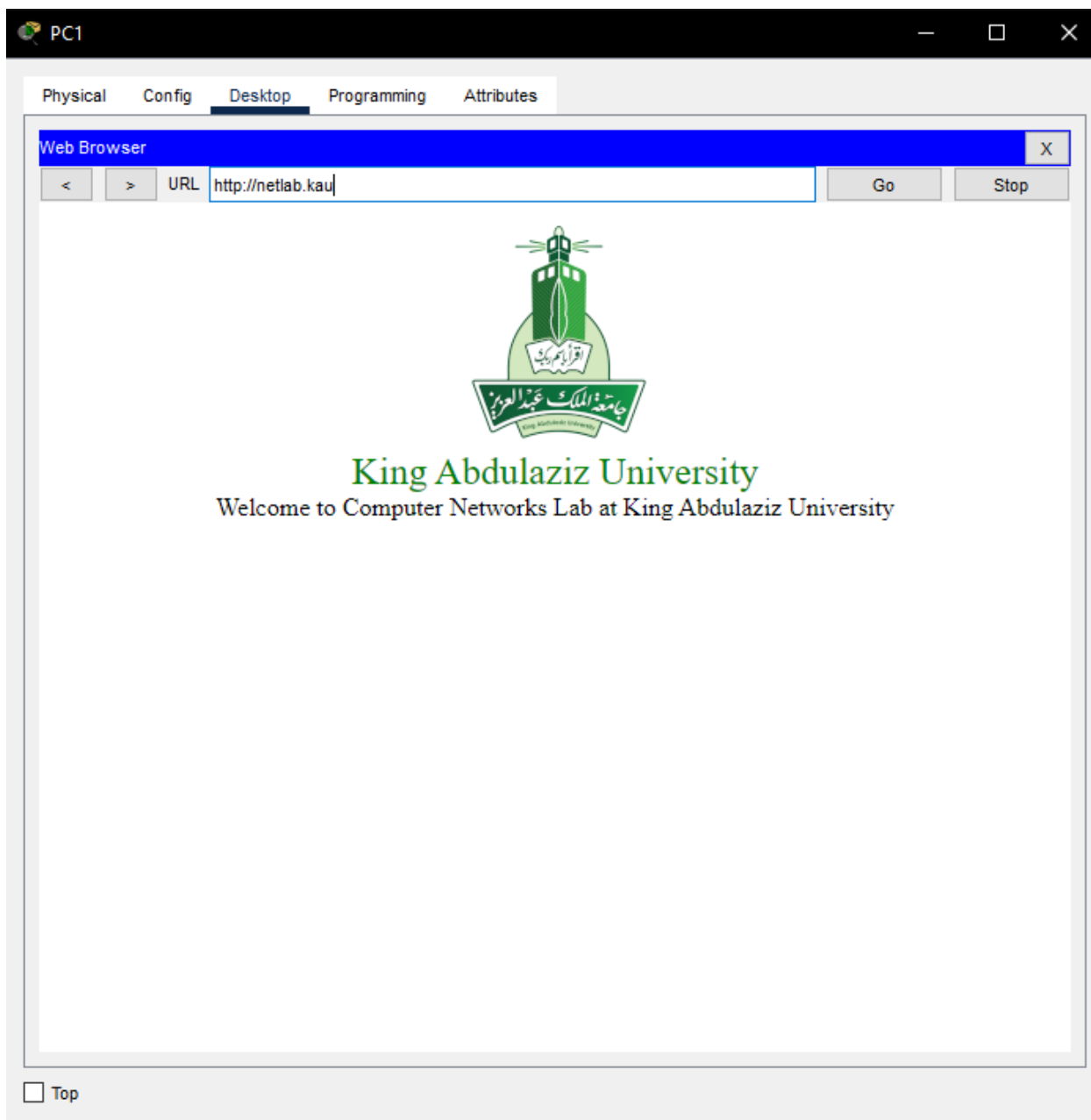
```
C:\>ping 192.168.40.254

Pinging 192.168.40.254 with 32 bytes of data:

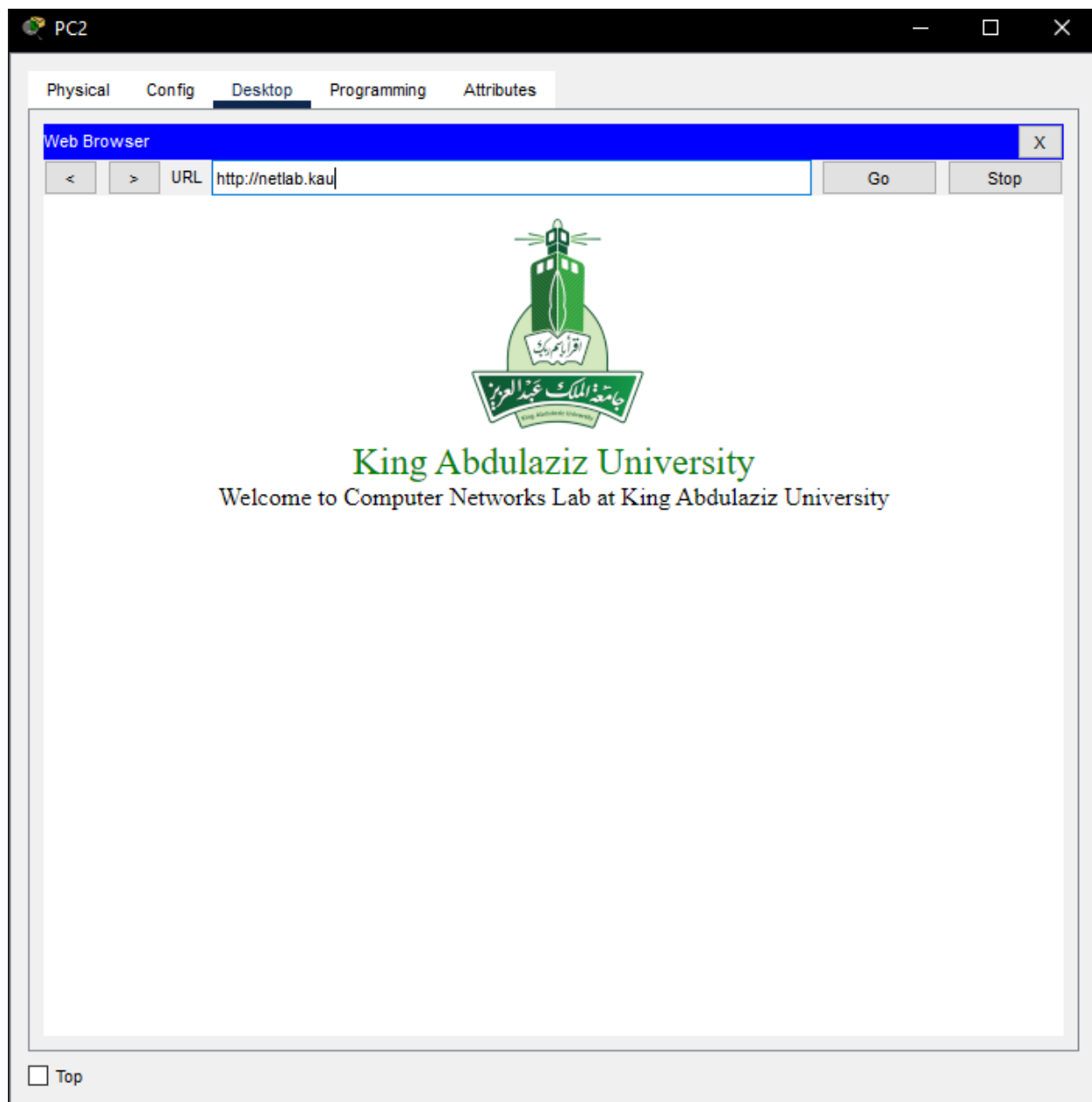
Reply from 192.168.40.254: bytes=32 time<1ms TTL=127
Reply from 192.168.40.254: bytes=32 time<1ms TTL=127
Reply from 192.168.40.254: bytes=32 time<1ms TTL=127
Reply from 192.168.40.254: bytes=32 time<1ms TTL=127

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 = 0ms, Average = 0ms
```

Web page from PC1:



Web page from PC2:



Web page from Pc3:

(locked)