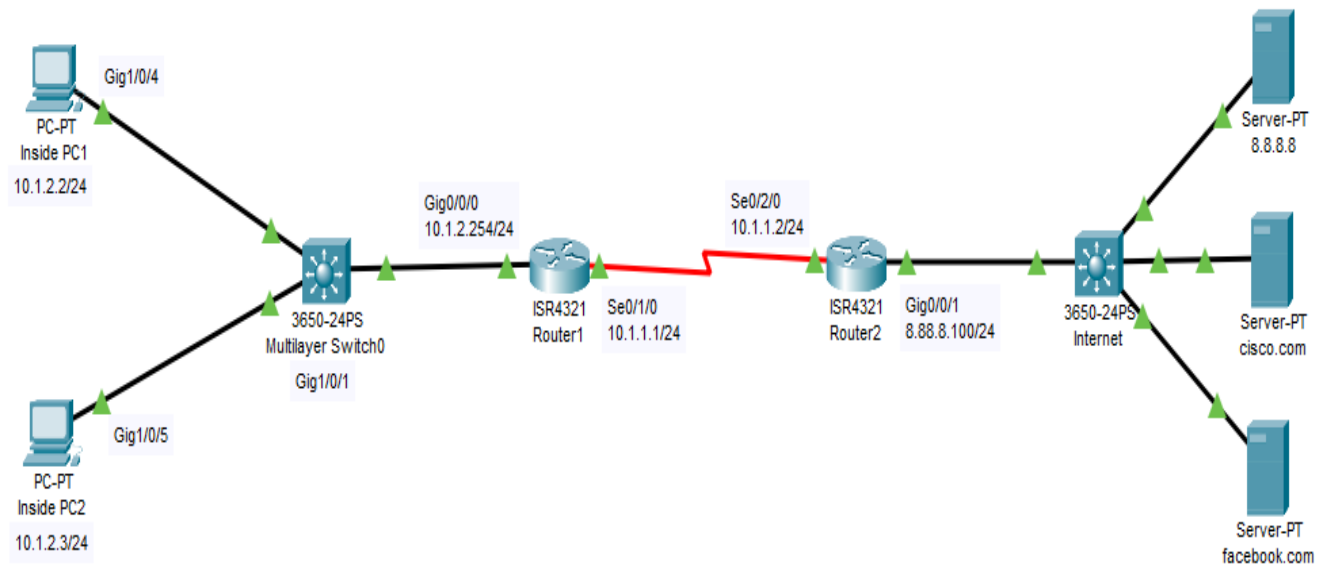


## CO513 - Lab 01

### Introduction to Cisco Packet Tracer

1. Implement the following network using Cisco packet tracer. Perform any IP configuration accordingly within each of the devices. Make sure the network is up and running.



Physical Config **Desktop** Programming Attributes

**IP Configuration** X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 10.1.2.2

Subnet Mask 255.0.0.0

Default Gateway 10.1.2.254

DNS Server 8.8.8.8

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:8FFF:FE49:DC88

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

Physical Config **Desktop** Programming Attributes

**IP Configuration** X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 10.1.2.3

Subnet Mask 255.0.0.0

Default Gateway 10.1.2.254

DNS Server 8.8.8.8

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:96FF:FE01:C631

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

Router1

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

Serial0/1/0

Serial0/1/1

Serial0/2/0

Serial0/2/1

GigabitEthernet0/0/0

Port Status

Bandwidth

Duplex

MAC Address

IP Configuration

IP Address

Subnet Mask

Tx Ring Limit

On

1000 Mbps

Half Duplex

Full Duplex

0001.43DB.3E01

10.1.2.254

255.255.255.0

10

Equivalent IOS Commands

Router(config)#interface GigabitEthernet0/0/0  
Router(config-if)#ip address 10.1.2.254 255.255.0.0  
Router(config-if)#ip address 10.1.2.254 255.255.0.0  
Router(config-if)#ip address 10.1.2.254 255.255.255.0  
Router(config-if)#

Top

Router1

Physical

Config

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ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

Serial0/1/0

Serial0/1/1

Serial0/2/0

Serial0/2/1

Serial0/1/0

Port Status

Duplex

Clock Rate

IP Configuration

IP Address

Subnet Mask

Tx Ring Limit

On

Full Duplex

2000000

10.1.1.1

255.255.255.0

10

Equivalent IOS Commands

Router(config-if)#ip address  
% Incomplete command.  
Router(config-if)#ip address 10.1.1.1 255.255.255.0  
Router(config-if)#ip address 10.1.1.1 255.255.255.0  
Router(config-if)#

Top

Serial0/2/0	
Port Status	<input checked="" type="checkbox"/> On
Duplex	<input type="radio"/> Full Duplex
Clock Rate	2000000
IP Configuration	
IP Address	10.1.1.2
Subnet Mask	255.255.255.0
Tx Ring Limit	10

## Equivalent IOS Commands

```
R2(config)#interface Serial0/2/1
R2(config-if)#
R2(config-if)#exit
R2(config)#interface Serial0/2/0
R2(config-if)#
```

☐ Top

GigabitEthernet0/0/1	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input type="radio"/> 1000 Mbps <input type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	00D0.97B1.2802
IP Configuration	
IP Address	8.8.8.100
Subnet Mask	255.255.255.0
Tx Ring Limit	10

## Equivalent IOS Commands

```
R2(config)#interface Serial0/2/0
R2(config-if)#
R2(config-if)#exit
R2(config)#interface GigabitEthernet0/0/1
R2(config-if)#
```

☐ Top

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

Serial0/1/0

Serial0/1/1

Serial0/2/0

Serial0/2/1

Static Routes

Network 8.8.8.0

Mask 255.255.255.0

Next Hop 10.1.1.2

Add

Network Address

8.8.8.0/24 via 10.1.1.2

Remove

Equivalent IOS Commands

Router#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#  
Router(config)#ip route 8.8.8.0 255.255.255.0 10.1.1.2  
Router(config)#

☐ Top

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

Serial0/1/0

Serial0/1/1

Serial0/2/0

Serial0/2/1

Static Routes

Network 10.1.2.0

Mask 255.255.255.0

Next Hop 10.1.1.1

Add

Network Address

10.1.2.0/24 via 10.1.1.1

Remove

Equivalent IOS Commands

Router#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#  
Router(config)#ip route 10.1.2.0 255.255.255.0 10.1.1.1  
Router(config)#

☐ Top

8.8.8.8

Physical Config Services **Desktop** Programming Attributes

### IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 8.8.8.8

Subnet Mask: 255.255.255.0

Default Gateway: 8.8.8.100

DNS Server: 8.8.8.8

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::20C:CFFF:FEB6:5925

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

☐ Top

cisco.com

Physical Config Services **Desktop** Programming Attributes

### IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 8.8.8.9

Subnet Mask: 255.255.255.0

Default Gateway: 8.8.8.100

DNS Server: 8.8.8.8

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::290:21FF:FE0D:8819

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

☐ Top

Physical Config **Services** Desktop Programming Attributes

## IP Configuration X

## IP Configuration

☐ DHCP ☒ Static

IP Address 8.8.8.10

Subnet Mask 255.255.255.0

Default Gateway 8.8.8.100

DNS Server 8.8.8.8

## IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::240:BFF:FE6A:936B

IPv6 Gateway

IPv6 DNS Server

## 802.1X

☐ Use 802.1X Security

Authentication MD5

☐ TopPhysical Config **Services** Desktop Programming Attributes

## SERVICES

HTTP

DHCP

DHCPv6

TFTP

**DNS**

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

## DNS

DNS Service ☒ On ☐ Off

## Resource Records

Name Type A Record

Address

Add

Save

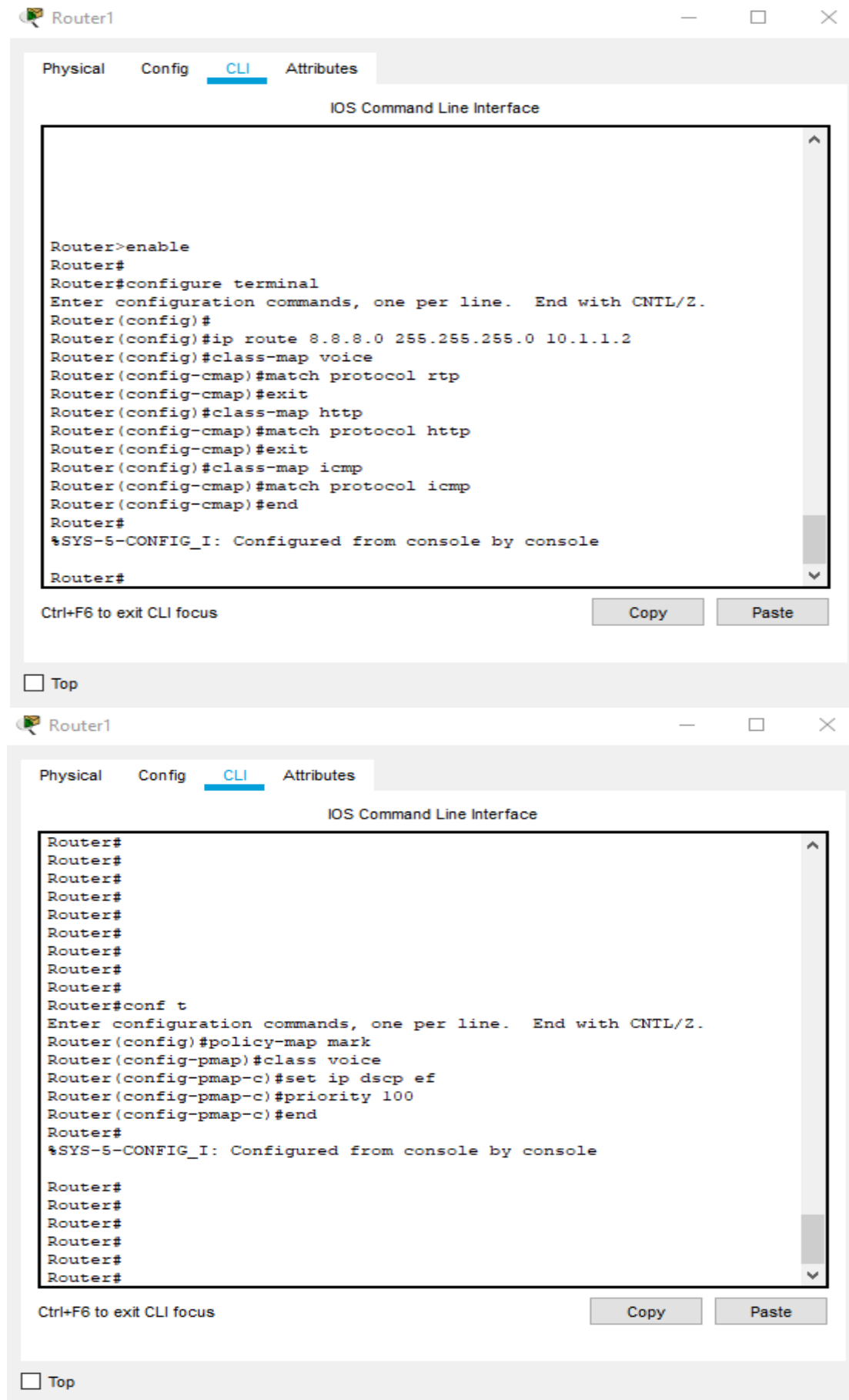
Remove

No.	Name	Type	Detail
0	cisco.com	A Record	8.8.8.9
1	facebook.com	A Record	8.8.8.10

DNS Cache

☐ Top

## On router 1



The image shows two screenshots of a Cisco IOS Command Line Interface (CLI) session on Router1. The top screenshot shows the initial configuration steps, including enabling the terminal, setting the terminal type to vt100, and configuring the terminal width to 80 columns. The bottom screenshot shows the configuration of a policy map named 'mark' to classify voice traffic based on DSCP values.

Router1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#ip route 8.8.8.0 255.255.255.0 10.1.1.2
Router(config)#class-map voice
Router(config-cmap)#match protocol rtp
Router(config-cmap)#exit
Router(config)#class-map http
Router(config-cmap)#match protocol http
Router(config-cmap)#exit
Router(config)#class-map icmp
Router(config-cmap)#match protocol icmp
Router(config-cmap)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

Router1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#policy-map mark
Router(config-pmap)#class voice
Router(config-pmap-c)#set ip dscp ef
Router(config-pmap-c)#priority 100
Router(config-pmap-c)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#
Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top



Router1

Physical Config CLI Attributes

```
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#policy-map mark
Router(config-pmap)#class voice
Router(config-pmap-c)#set ip dscp ef
Router(config-pmap-c)#priority 100
Router(config-pmap-c)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#
Router#
Router#
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#policy-map mark
Router(config-pmap)#class http
Router(config-pmap-c)#set ip dscp af31
Router(config-pmap-c)#bandwidth 50
Router(config-pmap-c)#exit
Router(config-pmap)#class icmp
Router(config-pmap-c)#set ip dscp af11
Router(config-pmap-c)#bandwidth 25
Router(config-pmap-c)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Router1

Physical Config CLI Attributes

IOS Command Line Interface

```
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int serial 0/1/0
Router(config-if)#service-policy output mark
Router(config-if)#end
Router#
```

Router1

Physical Config CLI Attributes

```
!
!
spanning-tree mode pvst
!
class-map match-all voice
  match protocol rtp
class-map match-all http
  match protocol http
class-map match-all icmp
  match protocol icmp
!
policy-map mark
  class voice
    priority 100
    set ip dscp ef
  class http
    bandwidth 50
    set ip dscp af31
  class icmp
    bandwidth 25
    set ip dscp af11
,
```

## On router 2

Router2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router>
Router>enable
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#class-map voice
Router(config-cmap)#match ip dscp ef
Router(config-cmap)#exit
Router(config)#class-map http
Router(config-cmap)#match ip dscp af31
Router(config-cmap)#exit
Router(config)#class-map icmp
Router(config-cmap)#match ip dscp af11
Router(config-cmap)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

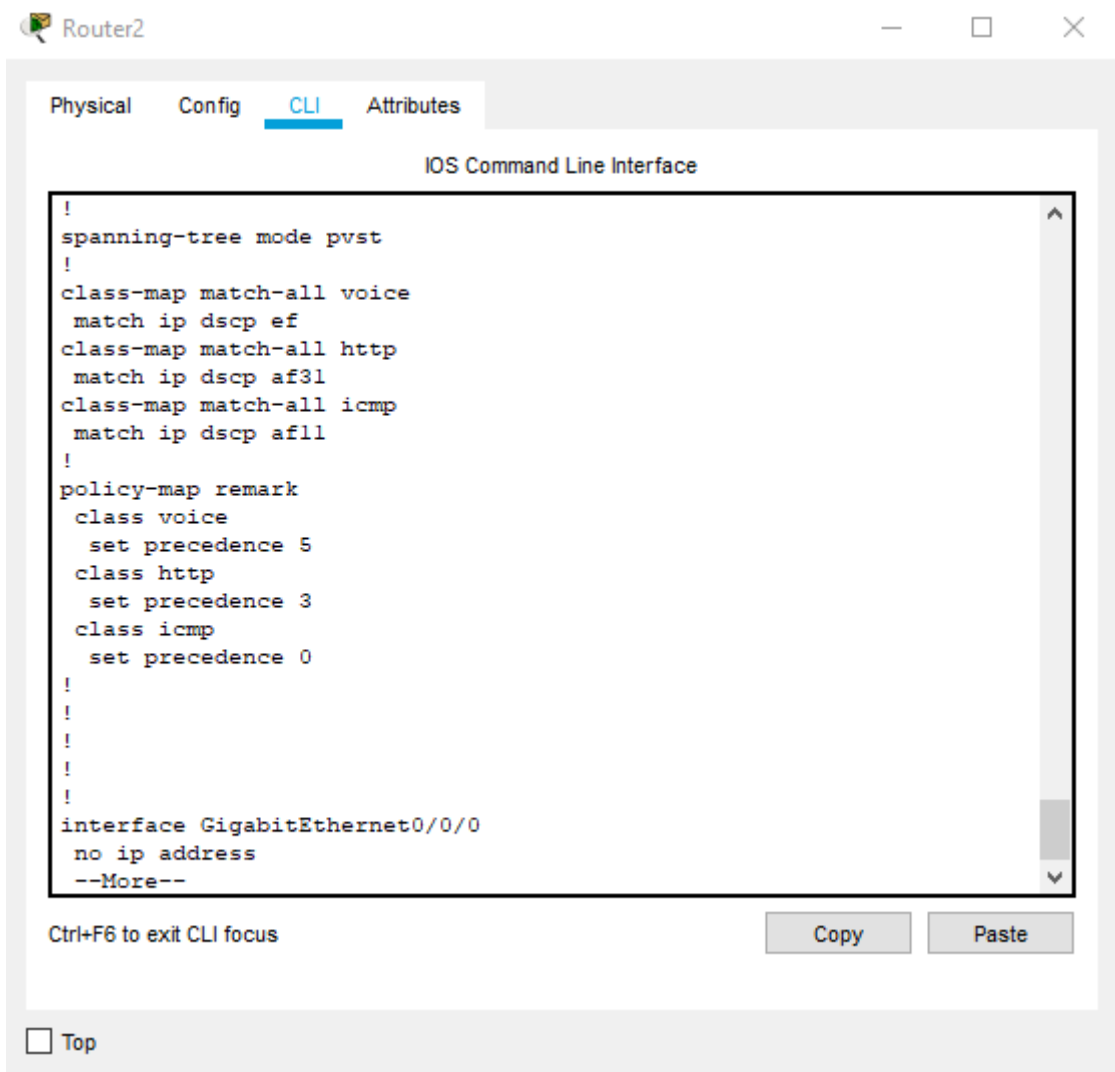
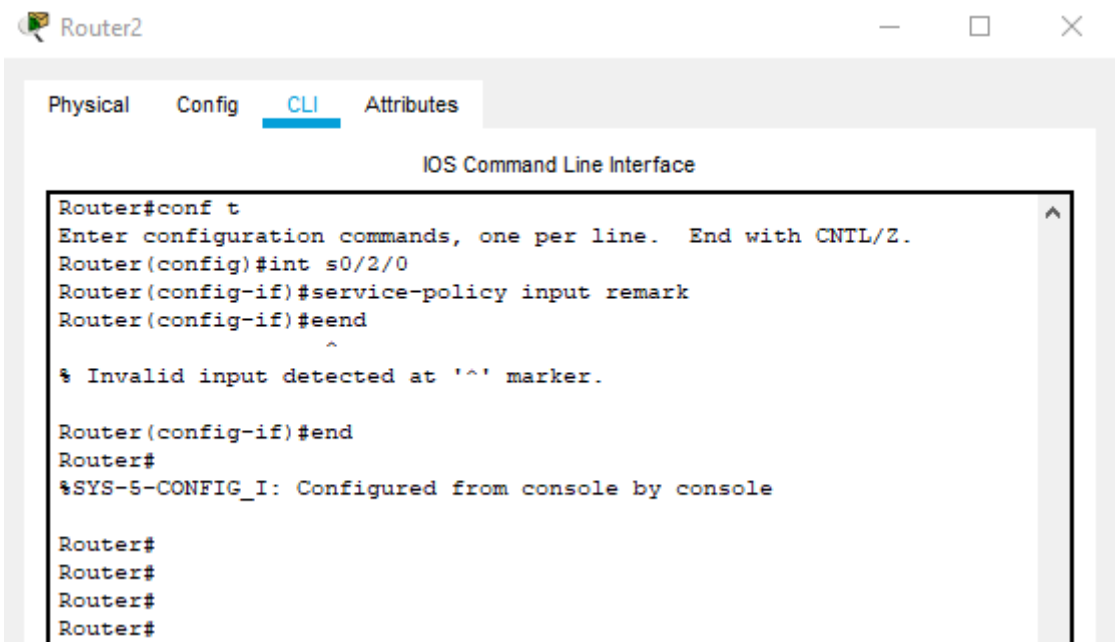
Router2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#policy-map remark
Router(config-pmap)#class voice
Router(config-pmap-c)#set precedence 5
Router(config-pmap-c)#exit
Router(config-pmap)#class http
Router(config-pmap-c)#set precedence 3
Router(config-pmap-c)#exit
Router(config-pmap)#class icmp
Router(config-pmap-c)#set precedence 0
Router(config-pmap-c)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
```



```
Router>enable
Router#show policy-map
  Policy Map mark
    Class voice
      Strict Priority
      Bandwidth 100 (kbps) Burst 2500 (Bytes)
      set ip dscp ef
    Class http
      Bandwidth 50 (kbps) Max Threshold 64 (packets)
      set ip dscp af31
    Class icmp
      Bandwidth 25 (kbps) Max Threshold 64 (packets)
      set ip dscp af11
Router#show policy-map interface s0/1/0
Serial0/1/0

Service-policy output: mark

Class-map: voice (match-all)
  0 packets, 0 bytes
  5 minute offered rate 0 bps, drop rate 0 bps
  Match: protocol rtp
  QoS Set
    dscp ef
    Packets marked 0
  Queueing
    Strict Priority
    Output Queue: Conversation 264
    Bandwidth 100 (kbps) Burst 2500 (Bytes)
    (pkts matched/bytes matched) 0/0
    (total drops/bytes drops) 0/0

Class-map: http (match-all)
  0 packets, 0 bytes
  5 minute offered rate 0 bps, drop rate 0 bps
  Match: protocol http
--More--
```

```
Router#
Router#show policy-map
  Policy Map remark
    Class voice
      set precedence 5
    Class http
      set precedence 3
    Class icmp
      set precedence 0
Router#show policy-map interface s0/2/0
Serial0/2/0

Service-policy input: remark

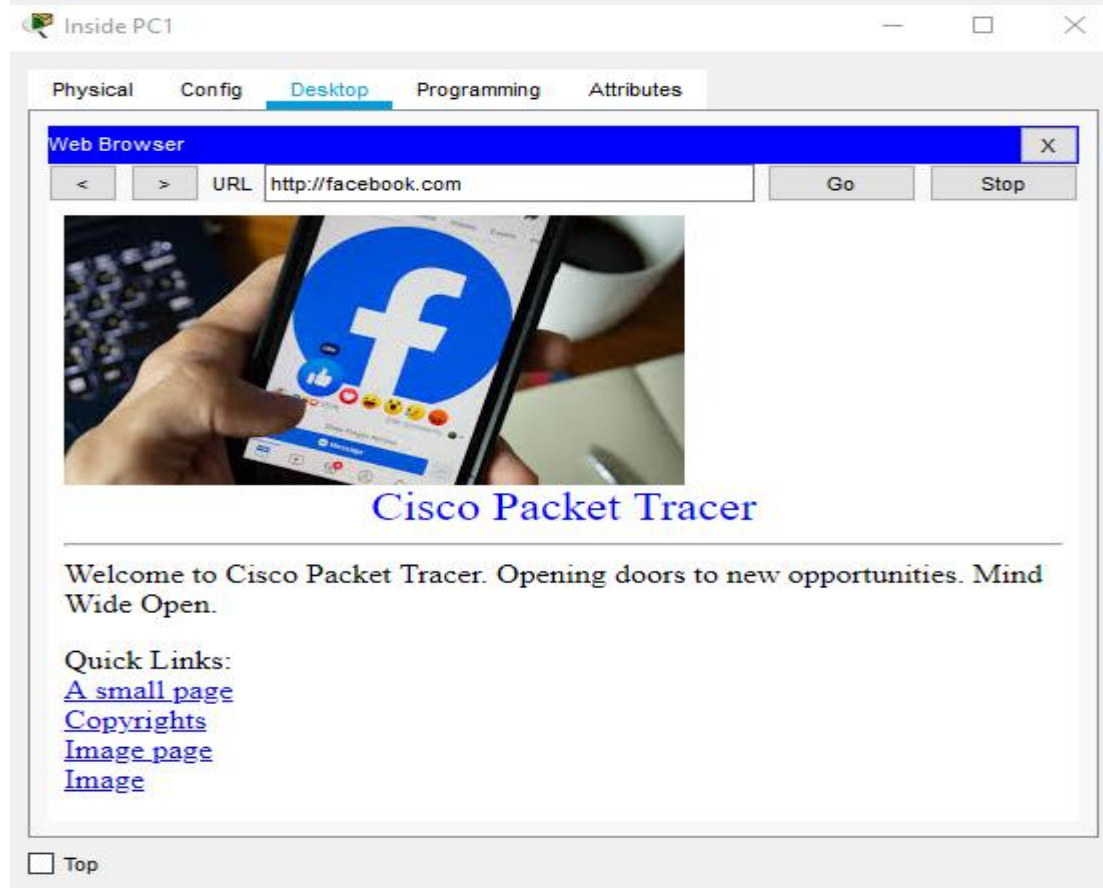
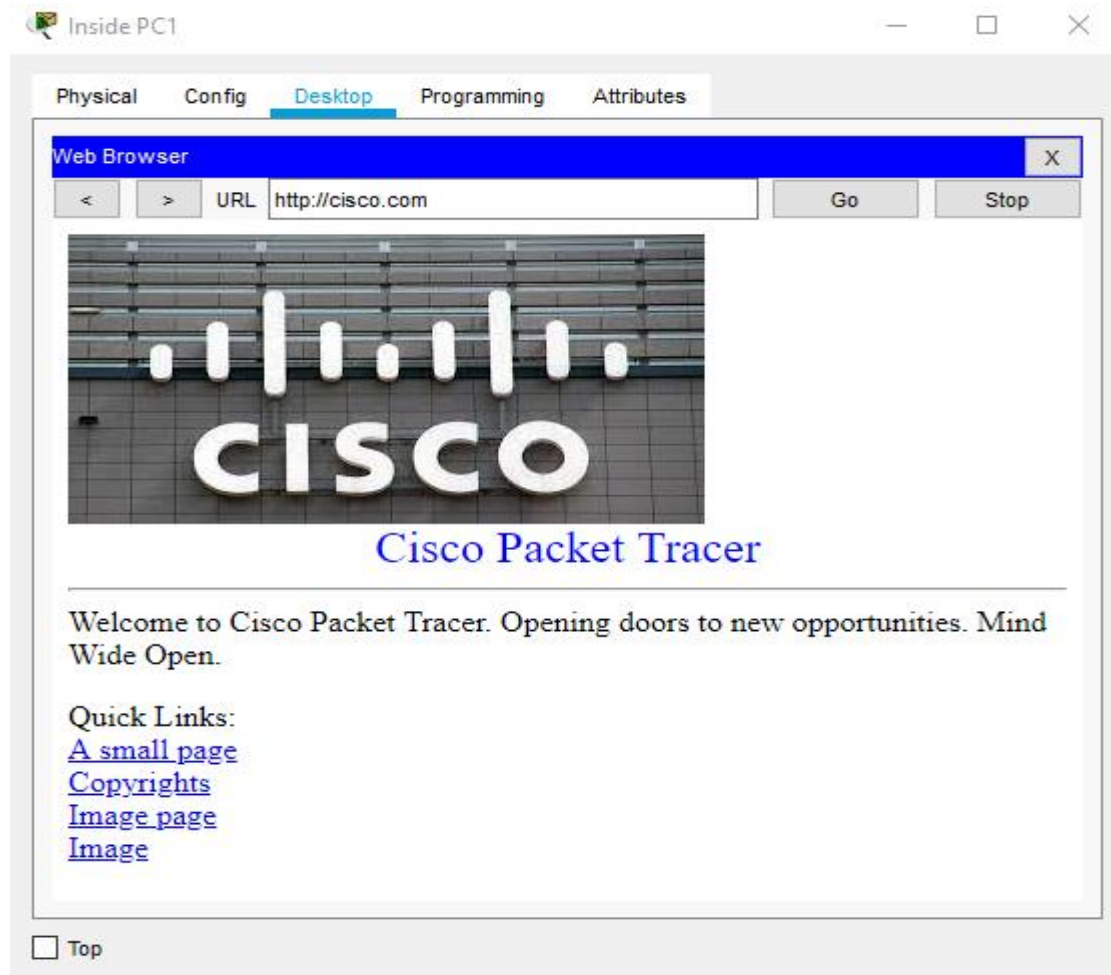
Class-map: voice (match-all)
  0 packets, 0 bytes
  5 minute offered rate 0 bps, drop rate 0 bps
  Match: ip dscp ef (46)
  QoS Set
    precedence 5
    Packets marked 0

Class-map: http (match-all)
  0 packets, 0 bytes
  5 minute offered rate 0 bps, drop rate 0 bps
  Match: ip dscp af31 (26)
  QoS Set
    precedence 3
    Packets marked 0

Class-map: icmp (match-all)
  0 packets, 0 bytes
  5 minute offered rate 0 bps, drop rate 0 bps
  Match: ip dscp af11 (10)
  QoS Set
    precedence 0
    Packets marked 0

--More--
```


- a. Open browser on PC1 and PC2 and browse to cisco.com and facebook.com - Verify matches in policy.



Physical Config **Desktop** Programming Attributes

Web Browser X

< > URL  Go Stop



## Cisco Packet Tracer

Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.


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[A small page](#)  
[Copyrights](#)  
[Image page](#)  
[Image](#)

☐ Top

Physical Config **Desktop** Programming Attributes

Web Browser X

< > URL  Go Stop



## Cisco Packet Tracer

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Quick Links:  
[A small page](#)  
[Copyrights](#)  
[Image page](#)  
[Image](#)

☐ Top



```
Router>enable
Router#show policy-map interface s0/1/0
Serial0/1/0

Service-policy output: mark

Class-map: voice (match-all)
  0 packets, 0 bytes
  5 minute offered rate 0 bps, drop rate 0 bps
  Match: protocol rtp
  QoS Set
    dscp ef
    Packets marked 0
  Queueing
    Strict Priority
    Output Queue: Conversation 264
    Bandwidth 100 (kbps) Burst 2500 (Bytes)
    (pkts matched/bytes matched) 0/0
    (total drops/bytes drops) 0/0

Class-map: http (match-all)
  524 packets, 21463 bytes
  5 minute offered rate 23 bps, drop rate 0 bps
  Match: protocol http
  QoS Set
    dscp af31
    Packets marked 524
  Queueing
    Output Queue: Conversation 265
    Bandwidth 50 (kbps)Max Threshold 64 (packets)
    (pkts matched/bytes matched) 0/0
    (depth/total drops/no-buffer drops) 0/0/0

Class-map: icmp (match-all)
  32 packets, 4096 bytes
  5 minute offered rate 31 bps, drop rate 0 bps
  Match: protocol icmp
  QoS Set
```

Figure1: Before connecting cisco.com



Router1

Physical Config CLI Attributes

```
Router#show policy-map interface s0/1/0
Serial0/1/0

Service-policy output: mark

Class-map: voice (match-all)
  0 packets, 0 bytes
  5 minute offered rate 0 bps, drop rate 0 bps
  Match: protocol rtp
  QoS Set
    dscp ef
    Packets marked 0
  Queueing
    Strict Priority
    Output Queue: Conversation 264
    Bandwidth 100 (kbps) Burst 2500 (Bytes)
    (pkts matched/bytes matched) 0/0
    (total drops/bytes drops) 0/0

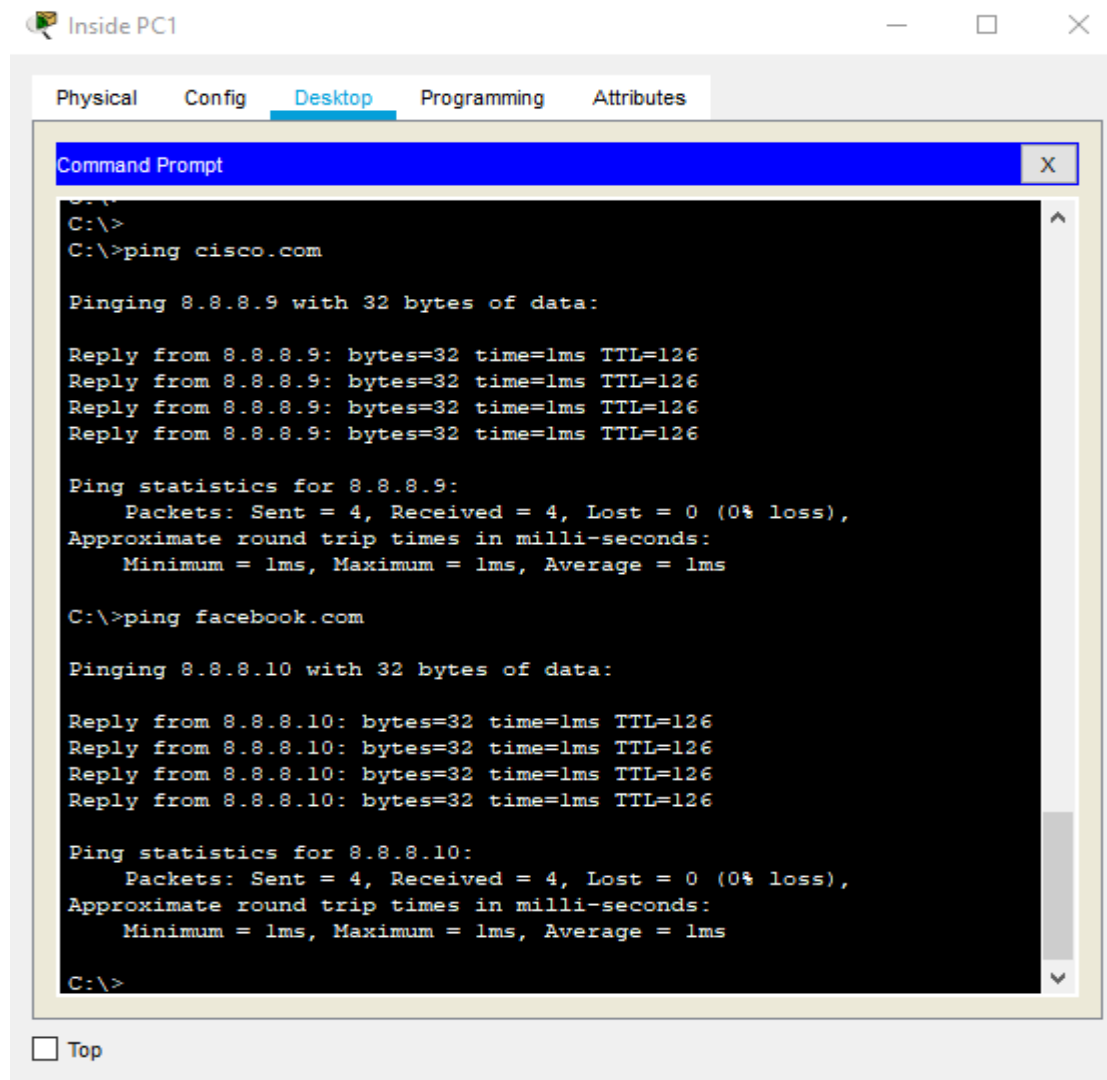
Class-map: http (match-all)
  539 packets, 22077 bytes
  5 minute offered rate 29 bps, drop rate 0 bps
  Match: protocol http
  QoS Set
    dscp af31
    Packets marked 539
  Queueing
    Output Queue: Conversation 265
    Bandwidth 50 (kbps)Max Threshold 64 (packets)
    (pkts matched/bytes matched) 0/0
    (depth/total drops/no-buffer drops) 0/0/0

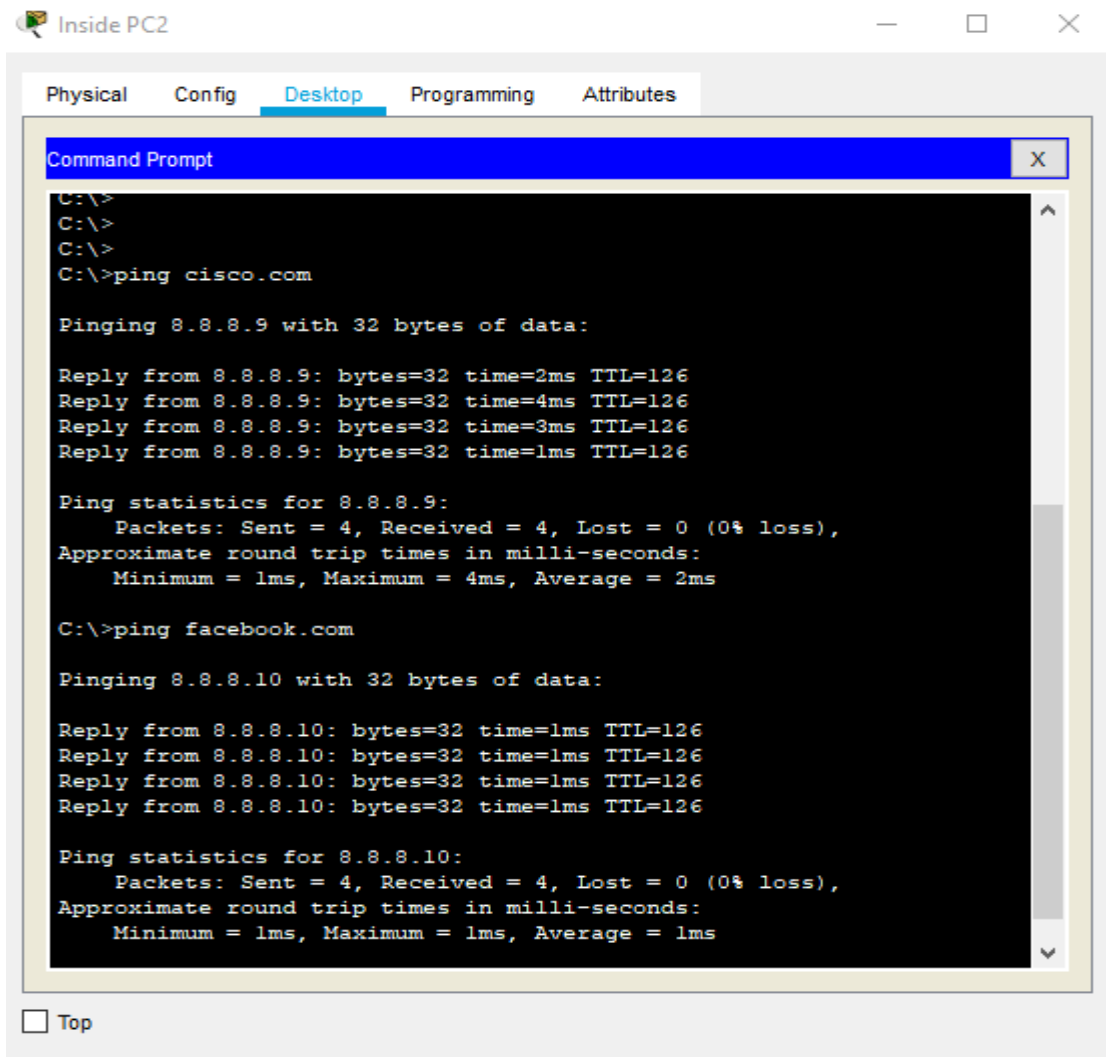
Class-map: icmp (match-all)
  32 packets, 4096 bytes
  5 minute offered rate 31 bps, drop rate 0 bps
  Match: protocol icmp
  QoS Set
    dscp af11
```

Figure2: After connecting cisco.com

If we consider above two figures, we can see http policy matches have increased.

- b. Ping cisco.com from PC1 and PC2 - Verify matches in policy.





- c. Use simulation mode to view DSCP and IP Precedence Packet markings.



PDU Information at Device: Router2

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

HDLC

0		8		16		24	
FLG: 0x7E		ADR: 0x8f		CONTROL: 0x0000			
DATA (VARIABLE LENGTH)							
FCS: 0x0000				FLG: 0x7E			

IP

0		4		8		16		20		24	
VER: 4		IHL: 5		DSCP: 0x0a		TL: 128					
ID: 0x0300				FLA GS: 0		FRAG OFFSET: 0x000					
TTL: 127				PRO: 0x01		CHKSUM					
SRC IP: 10.1.2.2											
DST IP: 8.8.8.9											
OPT: 0x00000000								PADDING: 0x00			
DATA (VARIABLE LENGTH)											

Time: 08:21:56.155

PLAY CONTROLS: [Stop] [Play] [Fast Forward] [Fast Reverse]

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.010	--	Inside PC1	ICMP
	0.011	Inside PC1	Multilayer S...	ICMP
	0.012	Multilayer Swit...	Router1	ICMP
	0.013	Router1	Router2	ICMP

Reset Simulation [x] Constant Delay Captured to: 0.013 s

Play Controls [Stop] [Play] [Fast Forward] [Fast Reverse]

Event List Filters - Visible Events ICMP

Edit Filters Show All/None

Realtime Simulation

PDU Information at Device: Router2

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

HDLC

0		8		16		24	
FLG: 0x7E		ADR: 0x8f		CONTROL: 0x0000			
DATA (VARIABLE LENGTH)							
FCS: 0x0000				FLG: 0x7E			

IP

0		4		8		16		20		24	
VER: 4		IHL: 5		DSCP: 0x0a		TL: 128					
ID: 0x0300				FLA GS: 0		FRAG OFFSET: 0x000					
TTL: 127				PRO: 0x01		CHKSUM					
SRC IP: 10.1.2.2											
DST IP: 8.8.8.9											
OPT: 0x00000000								PADDING: 0x00			
DATA (VARIABLE LENGTH)											

Time: 08:21:56.155

PLAY CONTROLS: [Stop] [Play] [Fast Forward] [Fast Reverse]

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.010	--	Inside PC1	ICMP
	0.011	Inside PC1	Multilayer S...	ICMP
	0.012	Multilayer Swit...	Router1	ICMP
	0.013	Router1	Router2	ICMP

Reset Simulation [x] Constant Delay Captured to: 0.013 s

Play Controls [Stop] [Play] [Fast Forward] [Fast Reverse]

Event List Filters - Visible Events ICMP

Edit Filters Show All/None

Realtime Simulation

Cisco Packet Tracer - C:\Users\My PC\Desktop\E. materials\Third year\Sixth semester\CO513\Lab\Lab5\E16156.pkt

File Edit Options View Tools Extensions Help

PDU Information at Device: Router2

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

Ethernet II

0 4 8 Bytes

PREAMBLE: 101010...10 DEST ADDR: 000D.BD7A.6B76

SRC ADDR: 000 2.4A99.EB02 TYP E: 0x DATA (VARIABLE LENGTH) FCS: 0x00000000

IP

0 4 8 16 20 24 Bits

VER: 4 IHL DSCP: 0x00 TL: 128

ID: 0x0300 FLA GS: 0 FRAG OFFSET: 0x000

TTL: 126 PRO: 0x01 CHKSUM

SRC IP: 10.1.2.2

DST IP: 8.8.8.9

OPT: 0x00000000 PADDING: 0x00

DATA (VARIABLE LENGTH)

ICMP

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.010	--	Inside PC1	ICMP
	0.011	Inside PC1	Multilayer S...	ICMP
	0.012	Multilayer Swit...	Router1	ICMP
	0.013	Router1	Router2	ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.013 s

Play Controls

Event List Filters - Visible Events

ICMP

Edit Filters Show All/None

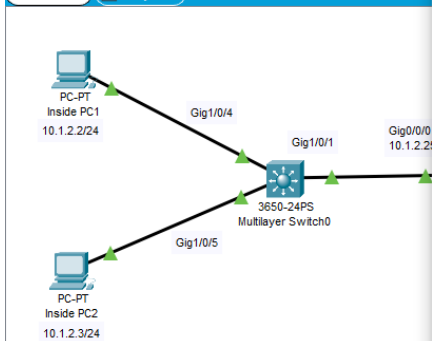
Time: 08:21:56.155 PLAY CONTROLS: [Previous] [Play] [Next] [Stop]

2960 2950 2951 2952 2953 2954 2955 2956 2957 2958 2959 2960 2961 2962 2963 2964 2965 2966 2967 2968 2969 2970 2971 2972 2973 2974 2975 2976 2977 2978 2979 2980 2981 2982 2983 2984 2985 2986 2987 2988 2989 2990 2991 2992 2993 2994 2995 2996 2997 2998 2999 3000 3001 3002 3003 3004 3005 3006 3007 3008 3009 3010 3011 3012 3013 3014 3015 3016 3017 3018 3019 3020 3021 3022 3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034 3035 3036 3037 3038 3039 3040 3041 3042 3043 3044 3045 3046 3047 3048 3049 3050 3051 3052 3053 3054 3055 3056 3057 3058 3059 3060 3061 3062 3063 3064 3065 3066 3067 3068 3069 3070 3071 3072 3073 3074 3075 3076 3077 3078 3079 3080 3081 3082 3083 3084 3085 3086 3087 3088 3089 3090 3091 3092 3093 3094 3095 3096 3097 3098 3099 3100 3101 3102 3103 3104 3105 3106 3107 3108 3109 3110 3111 3112 3113 3114 3115 3116 3117 3118 3119 3120 3121 3122 3123 3124 3125 3126 3127 3128 3129 3130 3131 3132 3133 3134 3135 3136 3137 3138 3139 3140 3141 3142 3143 3144 3145 3146 3147 3148 3149 3150 3151 3152 3153 3154 3155 3156 3157 3158 3159 3160 3161 3162 3163 3164 3165 3166 3167 3168 3169 3170 3171 3172 3173 3174 3175 3176 3177 3178 3179 3180 3181 3182 3183 3184 3185 3186 3187 3188 3189 3190 3191 3192 3193 3194 3195 3196 3197 3198 3199 3200 3201 3202 3203 3204 3205 3206 3207 3208 3209 3210 3211 3212 3213 3214 3215 3216 3217 3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231 3232 3233 3234 3235 3236 3237 3238 3239 3240 3241 3242 3243 3244 3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265 3266 3267 3268 3269 3270 3271 3272 3273 3274 3275 3276 3277 3278 3279 3280 3281 3282 3283 3284 3285 3286 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298 3299 3300 3301 3302 3303 3304 3305 3306 3307 3308 3309 3310 3311 3312 3313 3314 3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 3341 3342 3343 3344 3345 3346 3347 3348 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3949 3950 3951 3952 3953 3954 3955 3956 3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968 3969 3970 3971 3972 3973 3974 3975 3976 3977 3978 3979 3980 3981 3982 3983 3984 3985 3986 3987 3988 3989 3990 3991 3992 3993 3994 3995 3996 3997 3998 3999 4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013 4014 4015 4016 4017 4018 4019 4020 4021 4022 4023 4024 4025 4026 4027 4028 4029 4030 4031 4032 4033 4034 4035 4036 4037 4038 4039 4040 4041 4042 4043 4044 4045 4046 4047 4048 4049 4050 4051 4052 4053 4054 4055 4056 4057 4058 4059 4060 4061 4062 4063 4064 4065 4066 4067 4068 4069 4070 4071 4072 4073 4074 4075 4076 4077 4078 4079 4080 4081 4082 4083 4084 4085 4086 4087 4088 4089 4090 4091 4092 4093 4094 4095 4096 4097 4098 4099 4100 4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115 4116 4117 4118 4119 4120 4121 4122 4123 4124 4125 4126 4127 4128 4129 4130 4131 4132 4133 4134 4135 4136 4137 4138 4139 4140 4141 4142 4143 4144 4145 4146 4147 4148 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4549 4550 4551 4552 4553 4554 4555 4556 4557 4558 4559 4560 4561 4562 4563 4564 4565 4566 4567 4568 4569 4570 4571 4572 4573 4574 4575 4576 4577 4578 4579 4580 4581 4582 4583 4584 4585 4586 4587 4588 4589 4590 4591 4592 4593 4594 4595 4596 4597 4598 4599 4600 4601 4602 4603 4604 4605 4606 4607 4608 4609 4610 4611 4612 4613 4614 4615 4616 4617 4618 4619 4620 4621 4622 4623 4624 4625 4626 4627 4628 4629 4630 4631 4632 4633 4634 4635 4636 4637 4638 4639 4640 4641 4642 4643 4644 4645 4646 4647 4648 4649 4650 4651 4652 4653 4654 4655 4656 4657 4658 4659 4660 4661 4662 4663 4664 4665 4666 4667 4668 4669 4670 4671 4672 4673 4674 4675 4676 4677 4678 4679 4680 4681 4682 4683 4684 4685 4686 4687 4688 4689 4690 4691 4692 4693 4694 4695 4696 4697 4698 4699 4700 4701 4702 4703 4704 4705 4706 4707 4708 4709 4710 4711 4712 4713 4714 4715 4716 4717 4718 4719 4720 4721 4722 4723 4724 4725 4726 4727 4728 4729 4730 4731 4732 4733 4734 4735 4736 4737 4738 4739 4740 4741 4742 4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760 4761 4762 4763 4764 4765 4766 4767 4768 4769 4770 4771 4772 4773 4774 4775 4776 4777 4778 4779 4780 4781 4782 4783 4784 4785 4786 4787 4788 4789 4790 4791 4792 4793 4794 4795 4796 4797 4798 4799 4800 4801 4802 4803 4804 4805 4806 4807 4808 4809 4810 4811 4812 4813 4814 4815 4816 4817 4818 4819 4820 4821 4822 4823 4824 4825 4826 4827 4828 4829 4830 4831 4832 4833 4834 4835 4836 4837 4838 4839 4840 4841 4842 4843 4844 4845 4846 4847 4848 4849 4850 4851 4852 4853 4854 4855 4856 4857 4858 4859 4860 4861 4862 4863 4864 4865 4866 4867 4868 4869 4870 4871 4872 4873 4874 4875 4876 4877 4878 4879 4880 4881 4882 4883 4884 4885 4886 4887 4888 4889 4890 4891 4892 4893 4894 4895 4896 4897 4898 4899 4900 4901 4902 4903 4904 4905 4906 4907 4908 4909 4910 4911 4912 4913 4914 4915 4916 4917 4918 4919 4920 4921 4922 4923 4924 4925 4926 4927 4928 4929 4930 4931 4932 4933 4934 4935 4936 4937 4938 4939 4940 4941 4942 4943 4944 4945 4946 4947 4948 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5149 5150 5151 5152 5153 5154 5155 5156 5157 5158 5159 5160 5161 5162 5163 5164 5165 5166 5167 5168 5169 5170 5171 5172 5173 5174 5175 5176 5177 5178 5179 5180 5181 5182 5183 5184 5185 5186 5187 5188 5189 5190 5191 5192 5193 5194 5195 5196 5197 5198 5199 5200 5201 5202 5203 5204 5205 5206 5207 5208 5209 5210 5211 5212 5213 5214 5215 5216 5217 5218 5219 5220 5221 5222 5223 5224 5225 5226 5227 5228 5229 5230 5231 5232 5233 5234 5235 5236 5237 5238 5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 5258 5259 5260 5261 5262 5263 5264 5265 5266 5267 5268 5269 5270 5271 5272 5273 5274 5275 5276 5277 5278 5279 528





Logical Physical x: 752, y: 163



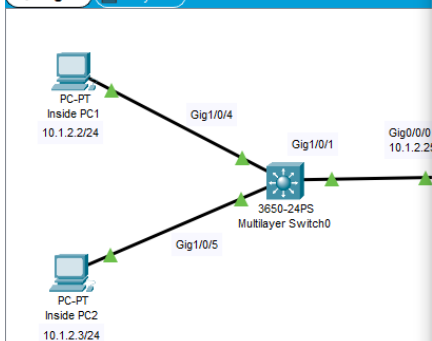
Time: 08:21:56.159 PLAY CONTROLS



Copper Straight-Through



Logical Physical x: 752, y: 163



Time: 08:21:56.159 PLAY CONTROLS



Copper Straight-Through

## PDU Information at Device: Router2

OSI Model Inbound PDU Details Outbound PDU Details

## PDU Formats

EthernetII															
0         4         8         Bytes															
PREAMBLE: 101010...10								DEST ADDR: 0002.4A99.EB02							
SRC ADDR: 000D.BD7A.6B76				TYP E: 0x		DATA (VARIABLE LENGTH)				FCS: 0x00000000					
IP															
0         4         8         16         20         24         Bits															
VER: 4		IHL		DSCP: 0x00				TL: 128							
ID: 0x011e								FLA GS: 0		FRAG OFFSET: 0x000					
TTL: 128				PRO: 0x01				CHKSUM							
SRC IP: 8.8.8.9															
DST IP: 10.1.2.2															
OPT: 0x00000000												PADDING: 0x00			
DATA (VARIABLE LENGTH)															

ICMP

[Root] 10:15:30

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.010	---	Inside PC1	ICMP
	0.011	Inside PC1	Multilayer S...	ICMP
	0.012	Multilayer Swit...	Router1	ICMP
	0.013	Router1	Router2	ICMP
	0.014	Router2	Internet	ICMP
	0.015	Internet	8.8.8.8	ICMP
	0.015	Internet	cisco.com	ICMP
	0.015	Internet	facebook.com	ICMP
	0.016	cisco.com	Internet	ICMP
	0.017	Internet	Router2	ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.017 s

Play Controls



Event List Filters - Visible Events

ICMP

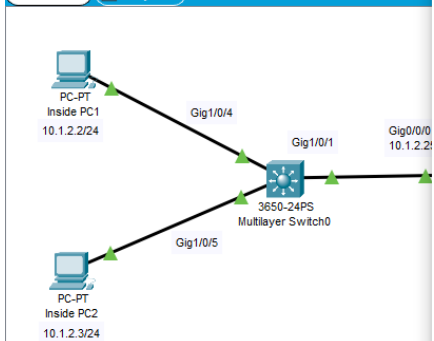
Edit Filters Show All/None

Event List Realtime Simulation







Logical Physical x: 531, y: 161



## PDU Information at Device: Router1

OSI Model Inbound PDU Details Outbound PDU Details

## PDU Formats

HDLC																											
0 8 16 24 32 40 48 56 64 72 80 88 96 104 112 120 128 136 144 152 160 168 176 184 192 200 208 216 224 232 240 248 256 264 272 280 288 296 304 312 320 328 336 344 352 360 368 376 384 392 400 408 416 424 432 440 448 456 464 472 480 488 496 504 512 520 528 536 544 552 560 568 576 584 592 600 608 616 624 632 640 648 656 664 672 680 688 696 704 712 720 728 736 744 752 760 768 776 784 792 800 808 816 824 832 840 848 856 864 872 880 888 896 904 912 920 928 936 944 952 960 968 976 984 992 1000																											
Bits																											
FLG: 0x7E				ADR: 0x8f				CONTROL: 0x0000																			
DATA (VARIABLE LENGTH)																											
FCS: 0x0000								FLG: 0x7E																			
IP																											
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96 100 104 108 112 116 120 124 128 132 136 140 144 148 152 156 160 164 168 172 176 180 184 188 192 196 200 204 208 212 216 220 224 228 232 236 240 244 248 252 256 260 264 268 272 276 280 284 288 292 296 300 304 308 312 316 320 324 328 332 336 340 344 348 352 356 360 364 368 372 376 380 384 388 392 396 400 404 408 412 416 420 424 428 432 436 440 444 448 452 456 460 464 468 472 476 480 484 488 492 496 500 504 508 512 516 520 524 528 532 536 540 544 548 552 556 560 564 568 572 576 580 584 588 592 596 600 604 608 612 616 620 624 628 632 636 640 644 648 652 656 660 664 668 672 676 680 684 688 692 696 700 704 708 712 716 720 724 728 732 736 740 744 748 752 756 760 764 768 772 776 780 784 788 792 796 800 804 808 812 816 820 824 828 832 836 840 844 848 852 856 860 864 868 872 876 880 884 888 892 896 900 904 908 912 916 920 924 928 932 936 940 944 948 952 956 960 964 968 972 976 980 984 988 992 996 1000																											
Bits																											
VER: 4				IHL				DSCP: 0x00				TL: 128															
ID: 0x011e								FLA 		GS: 		FRAG OFFSET: 0x000															
TTL: 127				PRO: 0x01				CHKSUM																			
SRC IP: 8.8.8.9																											
DST IP: 10.1.2.2																											
OPT: 0x00000000																											
PADDING: 0x00																											
DATA (VARIABLE LENGTH)																											

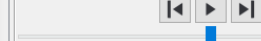
[Root] 10:22:00

## Simulation Panel

Vis.	Time(sec)	Last Device	At Device	Type
	0.010	--	Inside PC1	ICMP
	0.011	Inside PC1	Multilayer S...	ICMP
	0.012	Multilayer Swt...	Router1	ICMP
	0.013	Router1	Router2	ICMP
	0.014	Router2	Internet	ICMP
	0.015	Internet	8.8.8.8	ICMP
	0.015	Internet	cisco.com	ICMP
	0.015	Internet	facebook.com	ICMP
	0.016	cisco.com	Internet	ICMP
	0.017	Internet	Router2	ICMP
	0.018	Router2	Router1	ICMP

Reset Simulation Constant Delay Captured to: 0.018 s

## Play Controls



Event List Filters - Visible Events

ICMP

Edit Filters

Show All/None

Event List

Realtime

Simulation

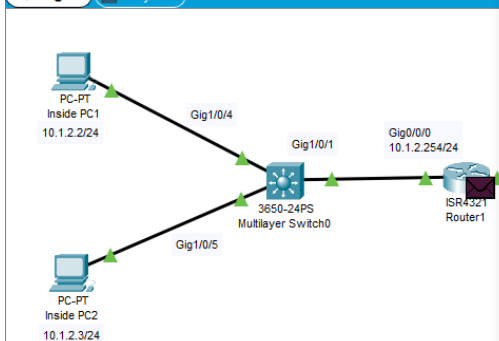
Time: 08:21:56.160 PLAY CONTROLS:



Copper Straight-Through



Logical Physical x: 531, y: 161



## PDU Information at Device: Router1

OSI Model Inbound PDU Details Outbound PDU Details

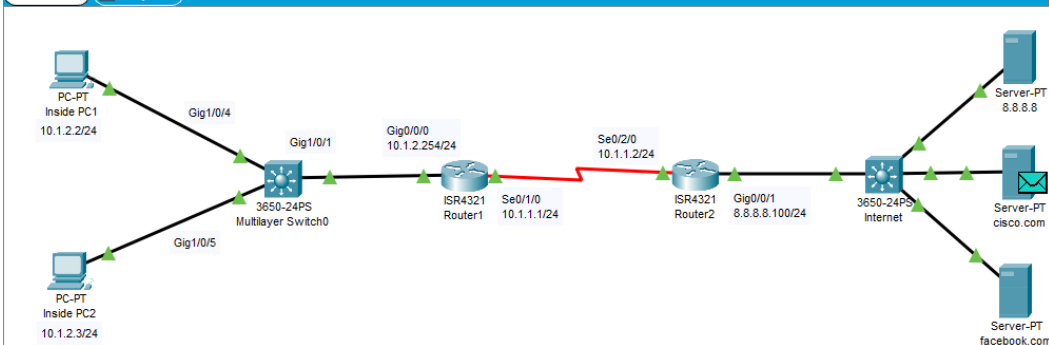
## PDU Formats

Ethernet II																Bytes																			
PREAMBLE: 101010..10																↓		DEST ADDR: 00E0.8F49.DC88																↑	
SRC ADDR: 000 1.43DB.3E01				↑		TYP E: 0x		↓		DATA (VARIABLE LENGTH)				↓		FCS: 0x00000000																			
IP																		Bits																	
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96 100 104 108 112 116 120 124 128 132 136 140 144 148 152 156 160 164 168 172 176 180 184 188 192 196 200 204 208 212 216 220 224																																			
VER: 4				IHL				DSCP: 0x00				TL: 128																							
ID: 0x011e												FLA GS: 0		↑		FRAG OFFSET: 0x000																			
TTL: 126								PRO: 0x01								CHKSUM																			
SRC IP: 8.8.8.9																																			
DST IP: 10.1.2.2																																			
OPT: 0x00000000																PADDING: 0x00																			
DATA (VARIABLE LENGTH)																																			

ICMP



[Logical] [Physical] x: 1047, y: 108



[Root] 10:53:30

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.017	Internet	Router2	
	0.018	Router2	Router1	
	0.019	Router1	Multilayer S...	
	0.020	Multilayer Swit...	Inside PC1	
	1.021	--	Inside PC1	
	1.022	Inside PC1	Multilayer S...	
	1.023	Multilayer Swit...	Router1	
	1.024	Router1	Router2	
	1.025	Router2	Internet	
	1.026	Internet	cisco.com	

Reset Simulation ☒ Constant Delay Captured to: 1.026 s

Play Controls

Event List Filters - Visible Events

ICMP

Edit Filters Show All/None

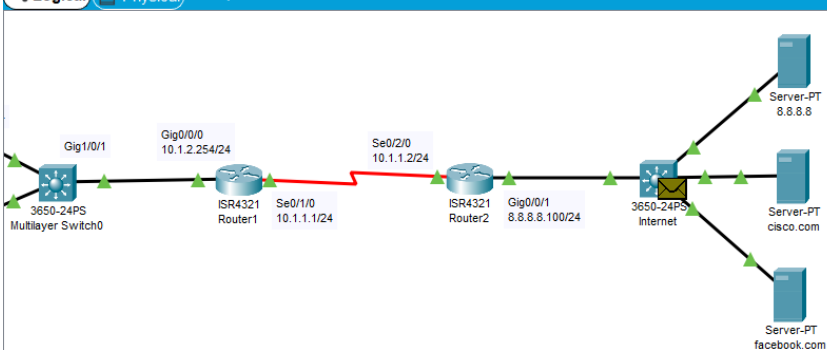
Time: 08:21:57.168 PLAY CONTROLS:



Copper Straight-Through



[Logical] [Physical] x: 1065, y: 368



[Root] 12:15:00

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	300.019	--	Inside PC1	IC
	300.020	Inside PC1	Multilayer S...	IC
	300.021	Multilayer Swit...	Router1	IC
	300.022	Router1	Router2	IC
	300.023	Router2	Internet	IC

Reset Simulation ☒ Constant Delay Captured to: 300.023 s

Play Controls

Event List Filters - Visible Events

ICMP

Edit Filters Show All/None

Time: 08:27:07.631 PLAY CONTROLS:

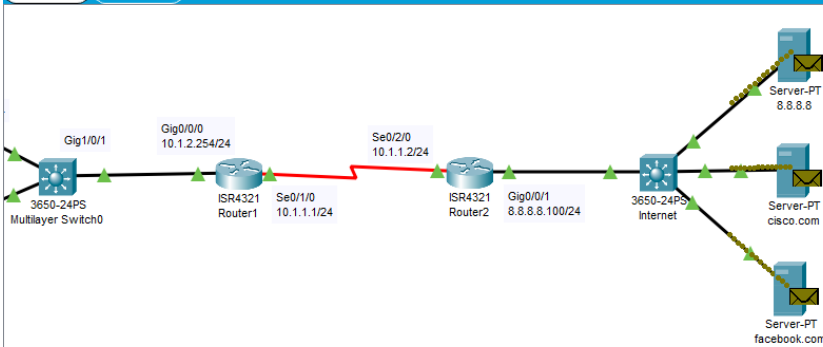


Copper Straight-Through





[Root] x: 1065, y: 368



[Root] x: 1065, y: 368

Simulation Panel				
Event List				
Vis.	Time(sec)	Last Device	At Device	Type
	300.019	--	Inside PC1	IC
	300.020	Inside PC1	Multilayer S...	IC
	300.021	Multilayer Swit...	Router1	IC
	300.022	Router1	Router2	IC
	300.023	Router2	Internet	IC
	300.024	Internet	8.8.8.8	IC
	300.024	Internet	cisco.com	IC
	300.024	Internet	facebook.com	IC

Reset Simulation ☒ Constant Delay Captured to: 300.024 s

Play Controls

Event List Filters - Visible Events

ICMP

Edit Filters Show All/None

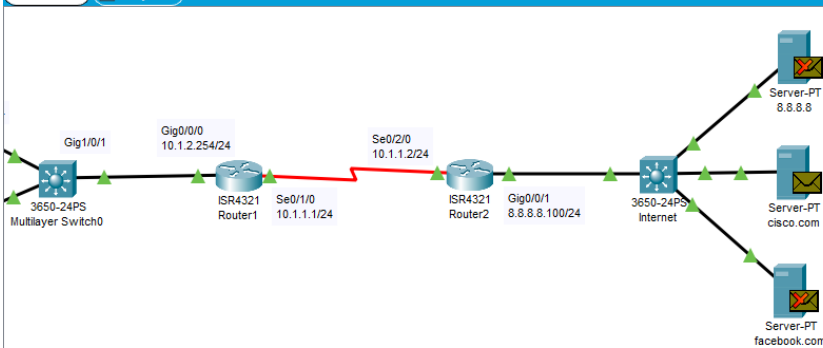
Time: 08:27:07.632 PLAY CONTROLS: Event List Realtime Simulation



Copper Straight-Through



[Root] x: 1065, y: 368



[Root] x: 1065, y: 368

Simulation Panel				
Event List				
Vis.	Time(sec)	Last Device	At Device	Type
	300.019	--	Inside PC1	IC
	300.020	Inside PC1	Multilayer S...	IC
	300.021	Multilayer Swit...	Router1	IC
	300.022	Router1	Router2	IC
	300.023	Router2	Internet	IC
	300.024	Internet	8.8.8.8	IC
	300.024	Internet	cisco.com	IC
	300.024	Internet	facebook.com	IC

Reset Simulation ☒ Constant Delay Captured to: 300.024 s

Play Controls

Event List Filters - Visible Events

ICMP

Edit Filters Show All/None

Time: 08:27:07.632 PLAY CONTROLS: Event List Realtime Simulation



Copper Straight-Through



[Root] x: 1065, y: 368



[Root] x: 1065, y: 368

Simulation Panel				
Event List				
Vis.	Time(sec)	Last Device	At Device	Type
	300.019	--	Inside PC1	IC
	300.020	Inside PC1	Multilayer S...	IC
	300.021	Multilayer Swit...	Router1	IC
	300.022	Router1	Router2	IC
	300.023	Router2	Internet	IC
	300.024	Internet	8.8.8.8	IC
	300.024	Internet	cisco.com	IC
	300.024	Internet	facebook.com	IC

Reset Simulation ☒ Constant Delay Captured to: 300.024 s

Play Controls

Event List Filters - Visible Events

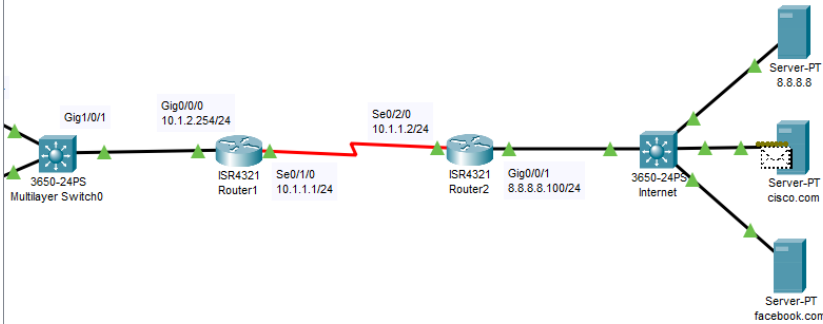
ICMP

Edit Filters Show All/None



Logical Physical x: 1065, y: 368

[Root] 12:19:30



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	300.019	--	Inside PC1	IC
	300.020	Inside PC1	Multilayer S...	IC
	300.021	Multilayer Swit...	Router1	IC
	300.022	Router1	Router2	IC
	300.023	Router2	Internet	IC
	300.024	Internet	8.8.8.8	IC
	300.024	Internet	cisco.com	IC
	300.024	Internet	facebook.com	IC
	300.025	cisco.com	Internet	IC

Reset Simulation

Constant Delay Capturing...

Play Controls

Event List Filters - Visible Events

ICMP

Edit Filters Show All/None

Time: 08:27:07.632 PLAY CONTROLS:

Event List Realtime Simulation

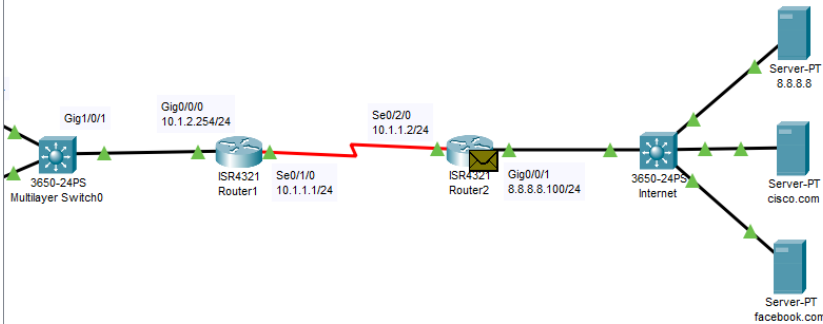


Copper Straight-Through



Logical Physical x: 1065, y: 368

[Root] 12:24:00



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	300.019	--	Inside PC1	IC
	300.020	Inside PC1	Multilayer S...	IC
	300.021	Multilayer Swit...	Router1	IC
	300.022	Router1	Router2	IC
	300.023	Router2	Internet	IC
	300.024	Internet	8.8.8.8	IC
	300.024	Internet	cisco.com	IC
	300.024	Internet	facebook.com	IC
	300.025	cisco.com	Internet	IC
	300.026	Internet	Router2	IC

Reset Simulation

Constant Delay Captured to: 300.026 s

Play Controls

Event List Filters - Visible Events

ICMP

Edit Filters Show All/None

Time: 08:27:07.634 PLAY CONTROLS:

Event List Realtime Simulation



Copper Straight-Through