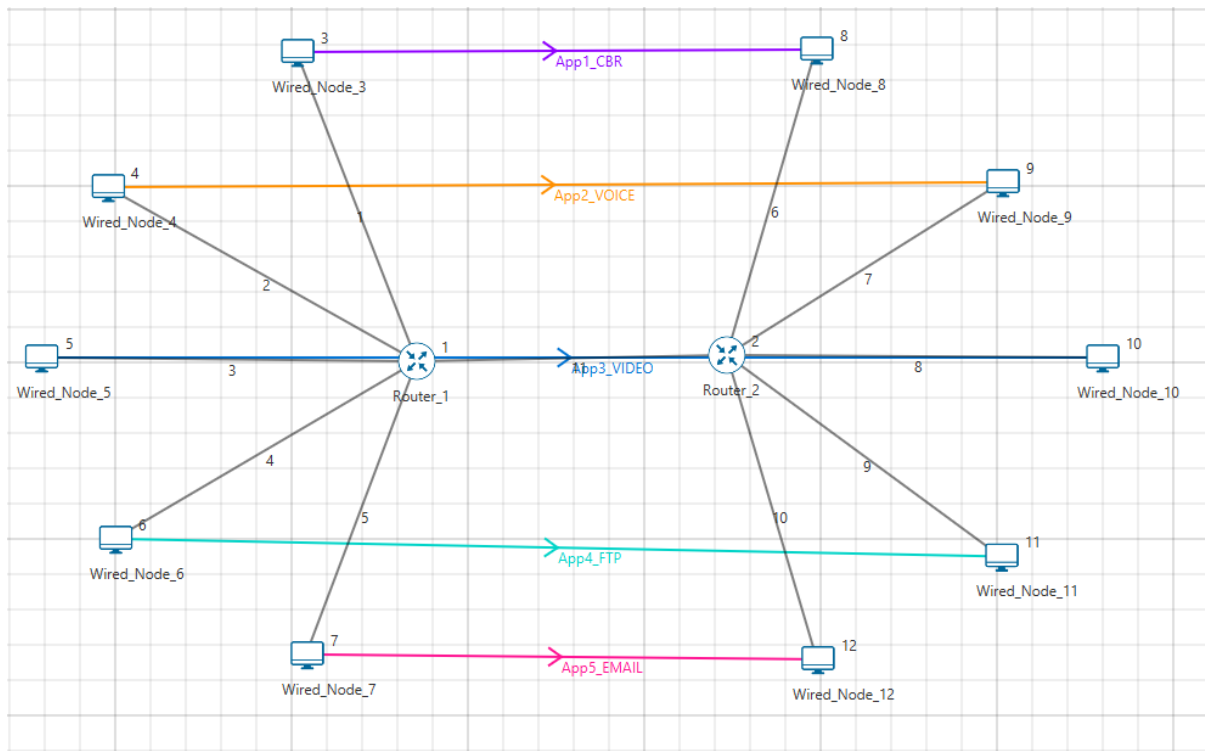**Applications and their metrics:**

Scenario:

Device Properties:

The Device Properties are set according to the table given below:

Wired Node & Router Properties	
TCP	Disabled

Link Properties:

The Link Properties are set according to the table given below:

Link Properties	Link 1	Link 2	Link 3	Link 4	Link 5	Link 6	Link 7	Link 8	Link 9	Link 10	Link 11
Uplink Speed (Mbps)	100	100	100	17	100	100	100	100	17	100	17
Downlink Speed (Mbps)	100	100	100	17	100	100	100	100	17	100	17

Uplink BER	0	0	0	0	0	0	0	0	0	0	0
Downlink BER	0	0	0	0	0	0	0	0	0	0	0

Application Properties:

The Application Properties are set according to the table given below:

Application Properties					
	Application 1	Application 2	Application 3	Application 4	Application 5
Application Type	CBR	VOICE	VIDEO	FTP	EMAIL
Source_Id	3	4	5	6	7
Destination_Id	8	9	10	11	12
Start_Time	0	20	40	60	80
End_Time	20	40	60	80	100
Generation Rate	10Mbps	10Mbps	1.5Mbps	16Mbps	0.8Mbps
Packet_Size	1460Bytes	1460Bytes	Frame_Per_Sec =10	2000000 Bytes	100000 Bytes
Inter_Arrival_time	1168µs	1168µs	Pixel_Per_Frame = 150000	1s	1s
	-	-	Mu =1	-	-

Output:

Application	Traffic Generation Rate (Mbps)*	Throughput (Mbps)	Throughput (Calculated through formula)	Delay(micro sec)	Delay (Calculated through formula)

CBR	10	10.0	10.00	957.47	957.47
Voice	5	4.99	5	957.49	957.49
Video	1.5	1.53	1.53	466.50	466.50
FTP	16	16	16.8	490410.68	490410.68
Email	0.8	0.79	0.8	24611.32	24611.32