MULTIMEDIA UNIVERSITY®

Inquire, Inspire and Innovate

FACULTY OF COMPUTING & INFORMATICS (FCI)

CSN6224
COMPUTER NETWORKS

ASSIGNMENT

Trimester October/November 2025, Term 2530

TC2L_TT8L_GROUP_11

GROUP 11

No.	Student ID	Student Name
1	243UC2436N	BAYAMIN, MOHAMMED MUNEER SALEM
2	243UC245F7	AGILAN BUMINATHAN
3	1211103488	YOUSEF ELSAYED EZZAT ELSAYED
4	242UC244LB	TIMOTHY KEW WEN TZUN

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1. **Introduction**

   The goal of this project was to create a high-availability infrastructure that could handle dual-stack IPv4 and IPv6 operations by designing, simulating, and validating a robust enterprise network using Cisco Packet Tracer. Important network engineering ideas were put into practice, including enterprise-grade wireless security utilizing RADIUS authentication to regulate network access, dynamic routing via OSPFv2 and OSPFv3 for scalability.

2. **IP Addressing Plan**

Network Area Devices	Member DOB	IPv4 subnet	IPv6 Prefix
IPv4 User Network	16/10/2005	202.16.10.1/24	N/A
IPv6 User Network	18/02/2005	N/A	2001:db8:1802:2005::1/64
Server Network	23/03/2005	202.23.3.1/24	2001:db8:2303:2005::1/64
Wireless (WLANs)	09/09/2005	202.9.9.1/24	2001:db8:909:2005::1/64

3. **Subnetting Tables**

   i) **IPv4**

Network name	Subnet Address	Subnet Mask	Usable Host Range	Gateway Address	Broadcast Address
IPV4 LAN	202.16.10.0/24	255.255.255.0	202.16.10.2 - 202.16.10.254	202.16.10.1	202.16.10.255
Server LAN	202.23.3.0/24	255.255.255.0	202.23.3.2 - 202.23.3.254	202.23.3.1	202.23.3.255
Wireless LAN	202.9.9.0/24	255.255.255.0	202.9.9.2 - 202.9.9.254	202.9.9.1	202.9.9.255

ii) IPv6

Network Name	IPv6 Prefix	Gateway Interface	Gateway Address
IPV6 LAN	2001:db8:1802:2005::1/64	FE80::1	2001:db8:1802:2005::1
Server LAN	2001:db8:2303:2005::1/64	FE80::260:3EFF:FE12:7501	2001:db8:2303:2005::1
Wireless LAN	2001:db8:0909:2005::1/64	FE80::202:16FF:FE1C:9402	2001:db8:909:2005::1

iii) Static Server IP Assignment

Server Role	IPv4 Address	IPv6 Address	Service Type
DNS Server	202.23.3.11	2001:DB8:2303:2005::11	DNS
Web Server	202.23.3.10	2001:DB8:2303:2005::10	HTTP / HTTPS
Email Server	202.23.3.13	2001:DB8:2303:2005::13	SMTP / POP3
FTP Server	202.23.3.12	2001:DB8:2303:2005::12	FTP

4. Configuration Steps & Screenshots

4.1 Dynamic Routing (OSPFv2 & OSPFv3)

We utilized OSPF (Open Shortest Path First) for both IPv4 and IPv6 to ensure scalability and redundancy. If a core link fails, OSPF will automatically reroute traffic.

OSPFv2 (IPv4): Configured using ***router ospf 1*** and ***network*** statements to advertise local subnets into Area 0.

```
Router>
Router>enable
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

     10.0.0.0/8 is variably subnetted, 4 subnets, 3 masks
C       10.0.0.4/30 is directly connected, GigabitEthernet0/2
L       10.0.0.5/32 is directly connected, GigabitEthernet0/2
C       10.0.0.8/29 is directly connected, GigabitEthernet0/1
L       10.0.0.10/32 is directly connected, GigabitEthernet0/1
O    202.9.9.0/24 [110/2] via 10.0.0.12, 00:34:50, GigabitEthernet0/1
     202.16.10.0/24 is variably subnetted, 2 subnets, 2 masks
C       202.16.10.0/24 is directly connected, GigabitEthernet0/0
L       202.16.10.1/32 is directly connected, GigabitEthernet0/0
O    202.23.3.0/24 [110/2] via 10.0.0.11, 00:34:50, GigabitEthernet0/1
```

Figure 4.1.1

OSPFv3 (IPv6): Configured by enabling ***ipv6 unicast-routing*** and applying ***ipv6 ospf 1 area 0*** directly to the router interfaces.

```
Router>
Router>enable
Router#show ipv6 route
IPv6 Routing Table - 8 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
       U - Per-user Static route, M - MIPv6
       I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
       ND - ND Default, NDp - ND Prefix, DCE - Destination, NDr - Redirect
       O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
       D - EIGRP, EX - EIGRP external
C   2001:DB8:23:2::/64 [0/0]
     via GigabitEthernet0/2, directly connected
L   2001:DB8:23:2::2/128 [0/0]
     via GigabitEthernet0/2, receive
C   2001:DB8:1802:2005::/64 [0/0]
     via GigabitEthernet0/0, directly connected
L   2001:DB8:1802:2005::1/128 [0/0]
     via GigabitEthernet0/0, receive
O   2001:DB8:2303:2005::/64 [110/2]
     via FE80::260:3EFF:FE12:7502, GigabitEthernet0/1
C   2001:DB8:CCCC::/64 [0/0]
     via GigabitEthernet0/1, directly connected
L   2001:DB8:CCCC::3/128 [0/0]
     via GigabitEthernet0/1, receive
 --More--
```

Figure 4.1.2

Figure 4.1.1 and 4.1.2 displays the routing table of the central Router 2 and Router 3 respectively . The presence of 'O' entries confirms that OSPFv2 and OSPFv3 are successfully exchanging routing information between IPv4, IPv6.

4.2 Server Services(Dual-stack)

1. For IP setup: Click Desktop > IP Configuration. Set IPv4 to ***202.23.3.11*** and IPv6 to ***2001:db8:2303:2005::11***.
2. Service: Services Tab > DNS > On.

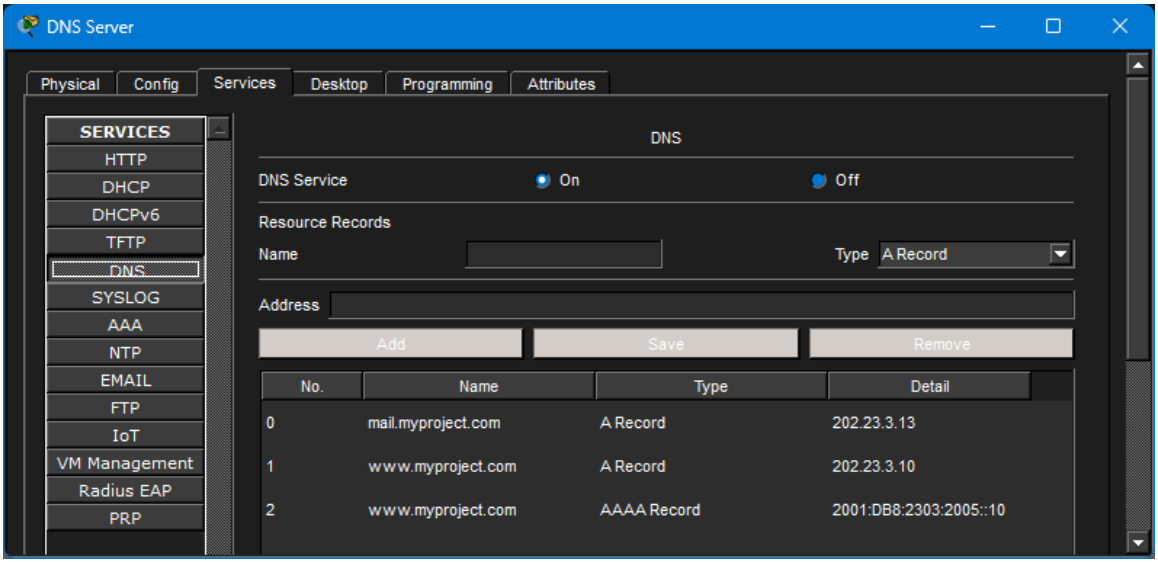


Figure 4.2.1

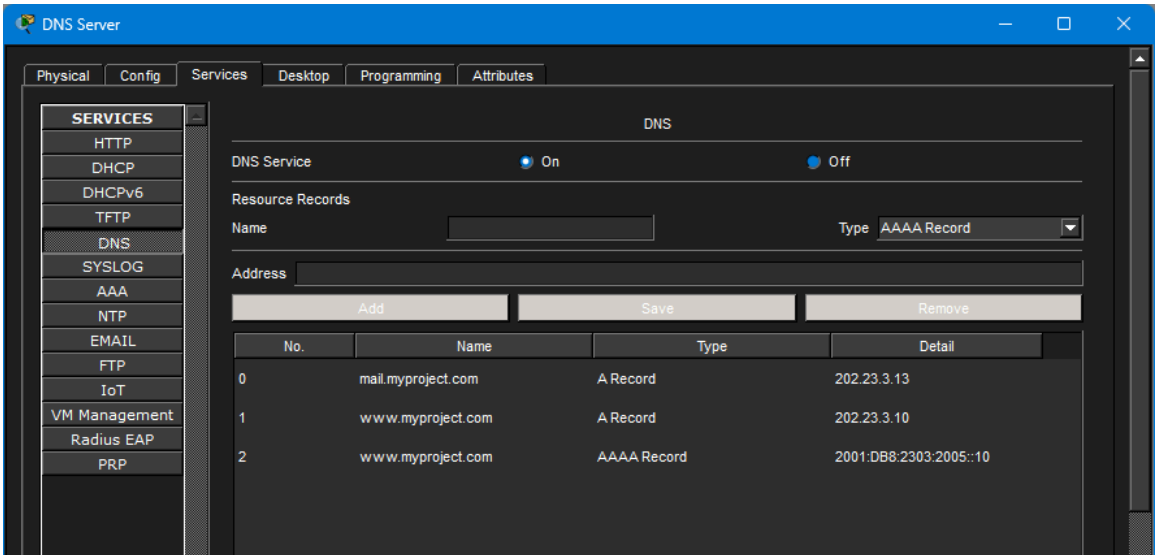


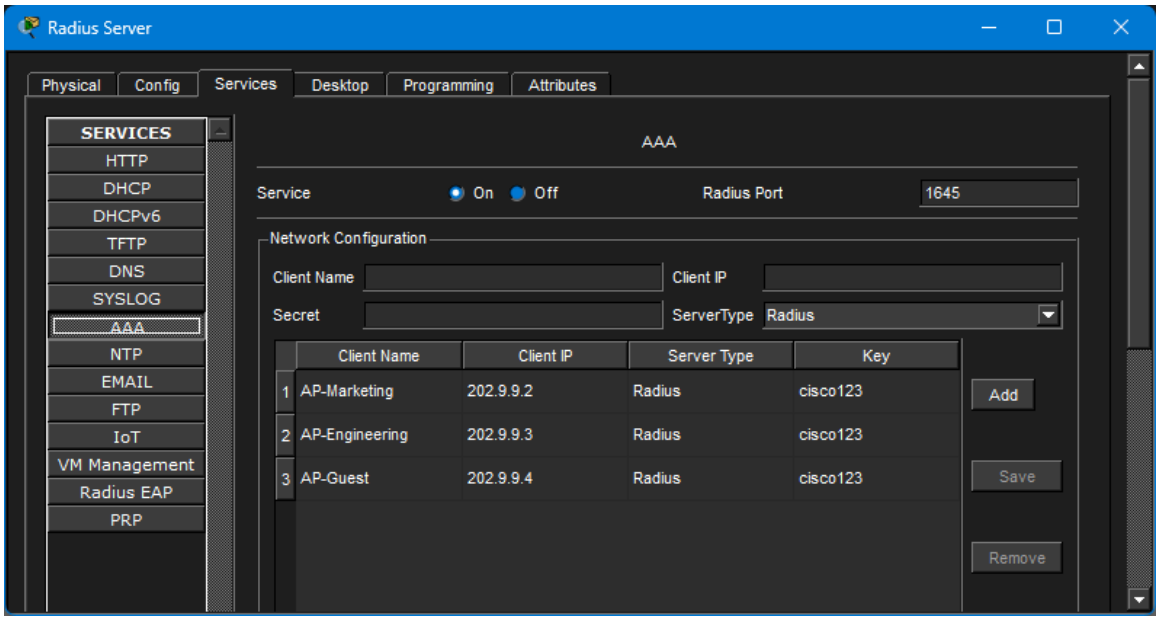
Figure 4.2.2

Figure 4.2.1 and Figure 4.2.2: DNS Service configuration showing A and AAAA records, enabling dual-stack name resolution for the web server.

4.3 Wireless & RADIUS Setup

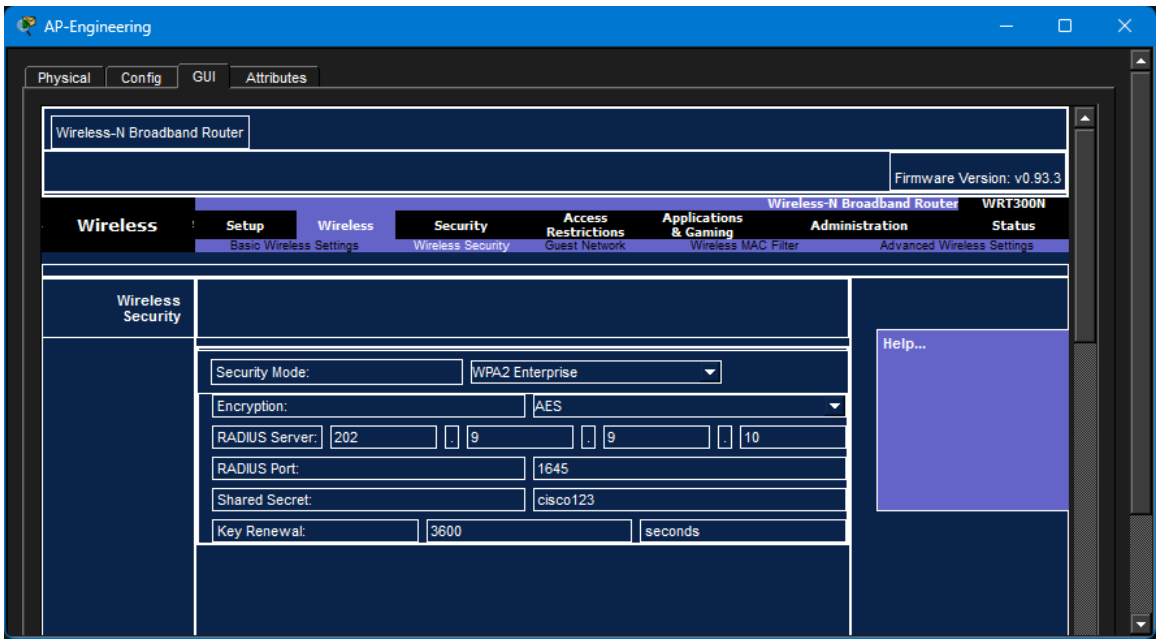
Action 1 (RADIUS)

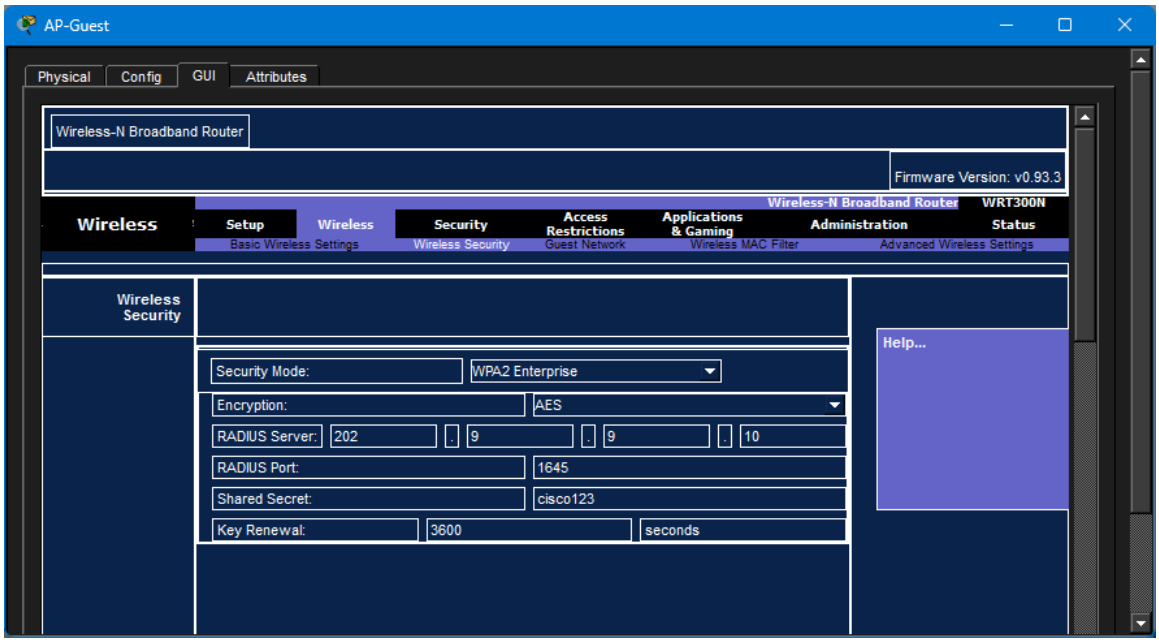
Click **RADIUS Server** > **Services** > **AAA**.

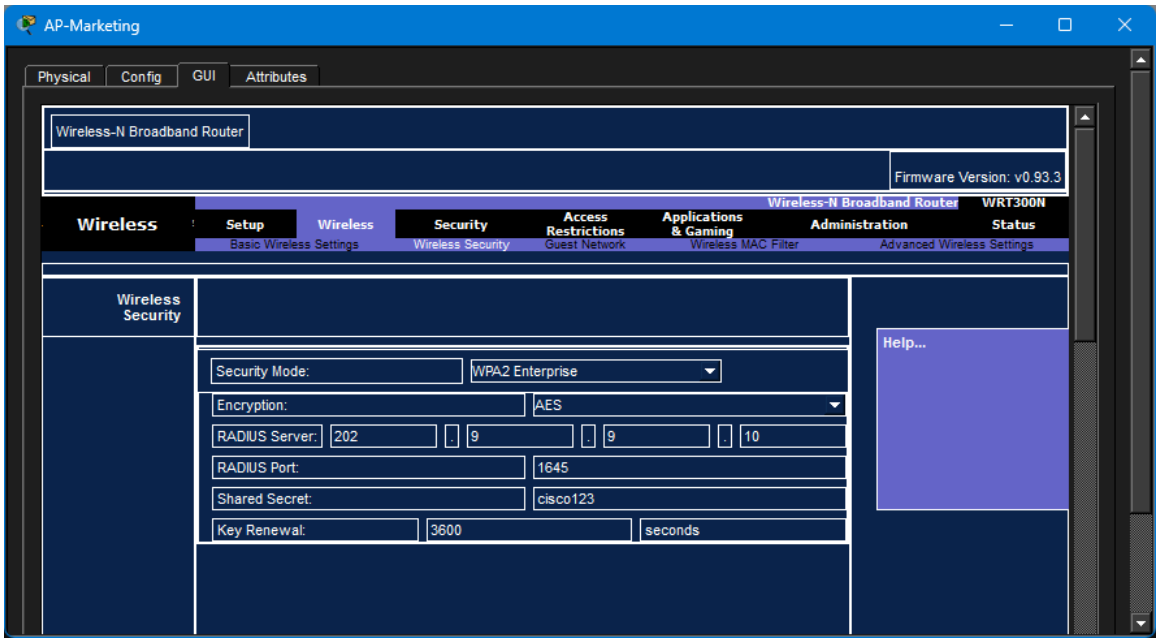


Action 2 (Wireless Router)

Click **Router4** > **GUI** > **Wireless** > **Wireless Security**..




AP-Guest
Physical
Config
GUI
Attributes
Wireless-N Broadband Router
Firmware Version: v0.93.3
Wireless-N Broadband Router WRT300N
Wireless
Setup
Wireless
Security
Access Restrictions
Applications & Gaming
Administration
Status
Basic Wireless Settings
Wireless Security
Guest Network
Wireless MAC Filter
Advanced Wireless Settings
Wireless Security
Help...
Security Mode:
WPA2 Enterprise
Encryption:
AES
RADIUS Server:
202
9
9
10
RADIUS Port:
1645
Shared Secret:
cisco123
Key Renewal:
3600
seconds


AP-Marketing
Physical
Config
GUI
Attributes
Wireless-N Broadband Router
Firmware Version: v0.93.3
Wireless-N Broadband Router WRT300N
Wireless
Setup
Wireless
Security
Access Restrictions
Applications & Gaming
Administration
Status
Basic Wireless Settings
Wireless Security
Guest Network
Wireless MAC Filter
Advanced Wireless Settings
Wireless Security
Help...
Security Mode:
WPA2 Enterprise
Encryption:
AES
RADIUS Server:
202
9
9
10
RADIUS Port:
1645
Shared Secret:
cisco123
Key Renewal:
3600
seconds

5. Connectivity Test Results (Validation)

5.1 Summary Table

Source	Destination	Protocol	Status
PC1 (IPv4 User)	Web Server (202.23.3.10)	ICMP (Ping)	Successful
PC31 (IPv6 User)	Web Server (IPv6)	ICMPv6 (Ping6)	Successful
PC1 (IPv4 Network)	Web Server (202.23.3.10)	HTTP (Web Browser)	Successful
PC1 (Sender)	PC0 (Receiver)	SMTP/POP3 (Email)	Successful
PC1 (IPv4 Network)	FTP Server (202.23.3.12)	FTP (File Transfer)	Successful

5.2 Validation Screenshots

Test 1: Ping (Connectivity)

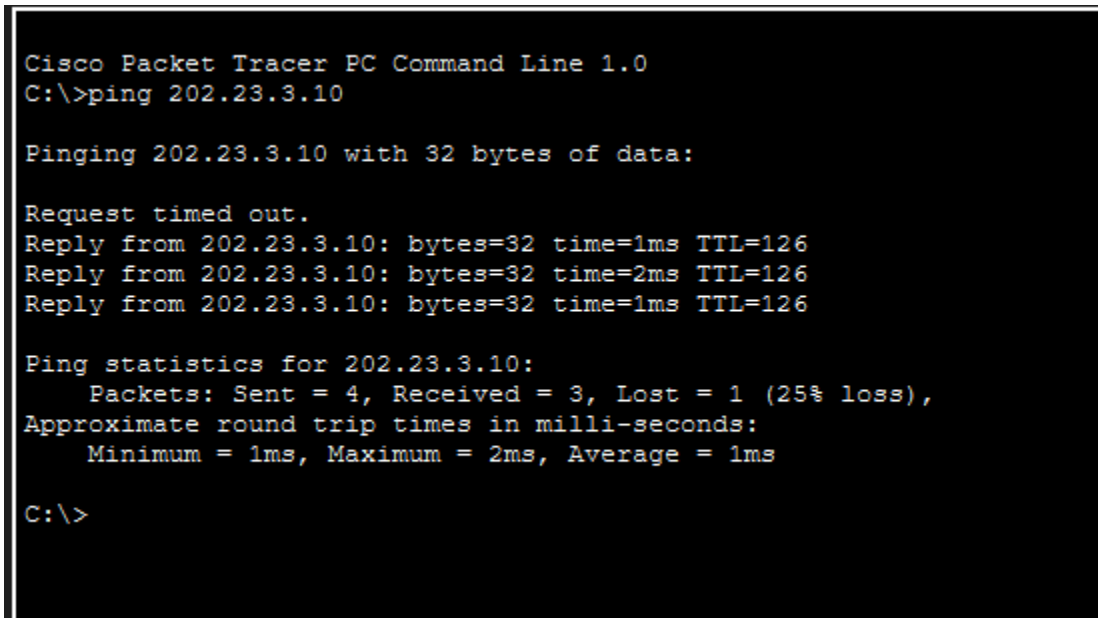


Figure 5.2.1a shows successful ping response from PC1 to the Web Server (202.23.3.10).

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 2001:db8:2303:2005::10

Pinging 2001:db8:2303:2005::10 with 32 bytes of data:

Reply from 2001:DB8:2303:2005::10: bytes=32 time=21ms TTL=126
Reply from 2001:DB8:2303:2005::10: bytes=32 time=10ms TTL=126
Reply from 2001:DB8:2303:2005::10: bytes=32 time<1ms TTL=126
Reply from 2001:DB8:2303:2005::10: bytes=32 time=1ms TTL=126

Ping statistics for 2001:DB8:2303:2005::10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 21ms, Average = 8ms

C:\>
```

Figure 5.2.1b shows successful IPv6 ping response from PC31 to the Web Server (2001:db8:2303:2005::10)

Test 2: Web Server (HTTP)

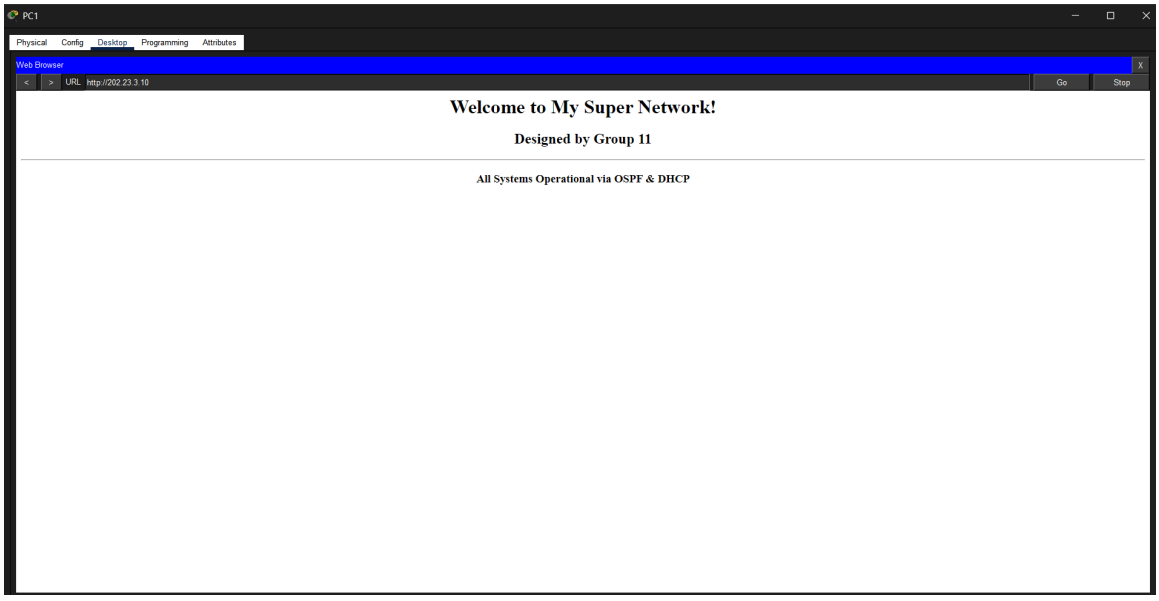


Figure 5.2.2 shows successful HTTP web browsing session from PC1 to the Web Server (202.23.3.10).

Test 3: Email

Figure 5.2.3a shows successful email transmission notification from the Sender (PC1).

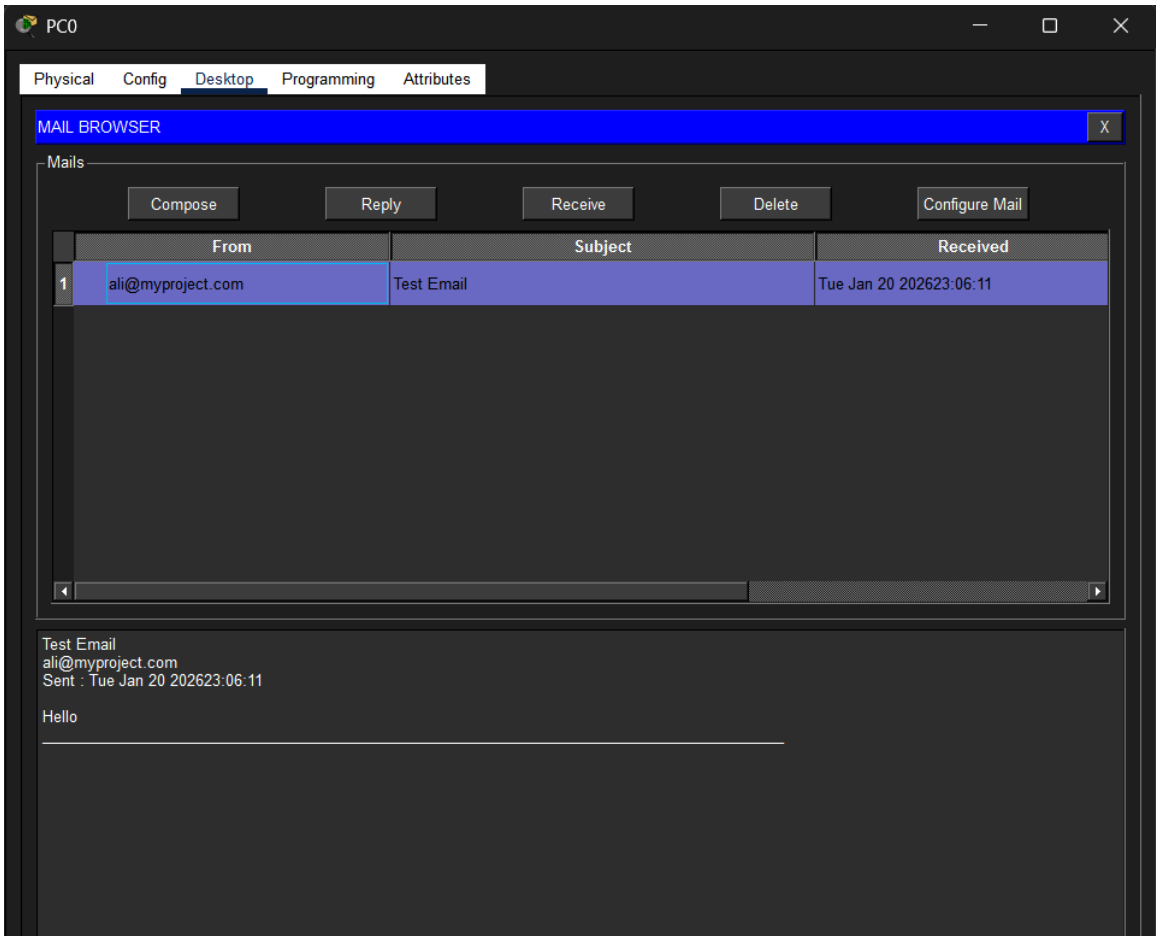


Figure 5.2.3b shows the test email successfully received and opened in the Mail Browser of the Receiver (PC0).

Test 4: FTP

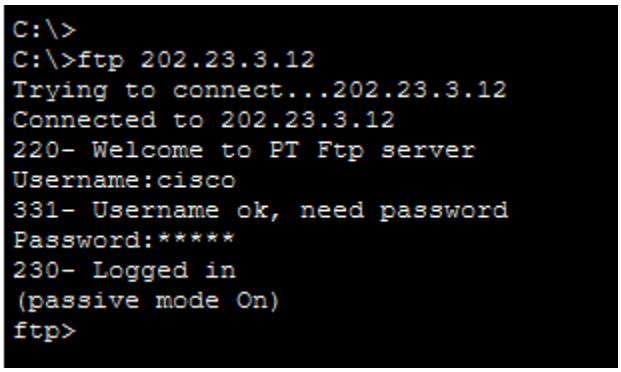


Figure 5.2.4 shows successful FTP login from PC1 to the FTP Server, confirming application-layer connectivity.

6. Reflection and Lesson Learned

By combining IPv4 and IPv6 routing, VLAN segmentation, and secure RADIUS authentication, this project effectively replicated a reliable, high-availability, dual-stack network. Although managing redundant switch pathways and setting concurrent OSPF protocols posed serious technical difficulties, these were resolved by thorough verification and the application of simulation techniques to guarantee loop prevention. In the end, the experience confirmed the scalability and robustness of the design by highlighting the crucial significance of logical segmentation for network performance and the requirement of centralized AAA services for achieving enterprise-grade security.

Link For Presentation Video via youtube:
https://youtu.be/j-D26idaiNU

7. APPENDIX 1 : GROUP MARKING RUBRIC/CHECKLIST

Group Marking Rubric (90%)

Assignment

CSN6224 Communication Networks

Trimester October/November 2025 Term 2530

Group Name:	TC2L_GROUP_11		Group ID:	GROUP 11

This document contains the official assessment rubric for your assignment. Marks will be awarded based on the criteria and weightage specified in this rubric, which accounts for **90%** of the **total project marks**. All groups must follow this rubric when completing and presenting their work. The remaining **10%** of the marks will be based on the **Individual Self-Evaluation Form** submitted together with your final report.

Criteria	Weightage (%)	Score 4	Score 3	Score 2	Score 1	Score 0	Rating (Lecturer)
1. VLAN Segmentation & Switch Configuration	**15%**	VLANs, trunks, STP, redundancy fully correct & stable	Mostly correct with minor errors	VLANs correct but STP/trunks incomplete	Major errors in VLAN or trunk config	Not attempted	
2. IPv4 & IPv6 Addressing Plan (DOB-Based)	**10%**	Fully correct IPv4/IPv6 addressing with accurate tables	Mostly correct	Some errors or incomplete tables	Incorrect formatting or wrong addressing	Not attempted	
3. Dual-Stack Server Configuration	**10%**	All services (DNS, Web, Email, FTP) fully functional on IPv4 & IPv6	Most services work; minor issues	Some services functional	Only 1 service working / major issues	No servers configured	
4. Dynamic Routing (IPv4 + IPv6)	**10%**	Full OSPFv2/OSPFv3 (or RIP) convergence across all routers	Routing works but minor gaps	Partial routing; some unreachable networks	Incorrect routing protocols or major errors	No dynamic routing	
5. Wireless + RADIUS Authentication	**10%**	All 3 WLANs functional with stable WPA2-Enterprise, DHCP & RADIUS	RADIUS mostly works with minor issues	WLAN OK, RADIUS partially working	Incorrect WLAN/RADIUS setup	Not attempted	
6. End-to-End Connectivity & Simulation Testing	**10%**	All IPv4/IPv6 ping, services, RADIUS login, simulation verified	Most tests successful	Partial connectivity	Few tests working	No testing conducted	
7. Report Quality & Documentation	**10%**	Professional, clear, complete, with appendices & evidence	Well-written and complete	Adequate but lacks depth or clarity	Poorly organized	No report submitted	
8. Presentation (Slides + Video)	**10%**	Excellent clarity, structure, teamwork, technical accuracy	Good delivery with minor gaps	Basic presentation	Poor clarity or missing parts	No presentation submitted	
9. Bonus: Enhancements (SSH, ACLs, Redundancy, Syslog/SNMP)	**5%**	3+ enhancements fully functional	Multiple enhancements with minor issues	1–2 enhancements partially working	Attempted but incorrect	No enhancements	

8. APPENDIX 2 : WEEKLY GROUP GUIDELINES

Weekly Project Guidelines / Checklist (Week 5 – 13)

Assignment

CSN6224 Communication Networks

Trimester October/November 2025 Term 2530

Group Name:	TC2L_GROUP_11		Group ID:	GROUP 11

These guidelines serve as a weekly reminder of the suggested tasks for your group. They are intended to help you plan and complete your project effectively. You are not required to follow them strictly, and your group may adjust the schedule as needed based on progress and workload.

Week	Task Title	Task Item	Checklist
Week 5	Group Formation	Form group & confirm member list	/
		Set up communication channel	/
		Assign roles (Leader, Technical Lead, Documentation Lead, Presentation Lead, QA)	/
		Conduct first meeting	/
Week 6	Requirements Analysis	Study assignment requirements	/
		Develop project scenario	/
		Divide tasks among group members	/
		Prepare high-level network design	/
		Lecturer check-in: confirm scope and design idea	/
Week 7	Initial Network Design	Draft topology in Packet Tracer	/
		Start IP addressing plan	/
		Identify required protocols	/
		Lecturer check-in: verify topology and addressing draft	/
Week 8	Requirements Mapping	Finalize topology	/
		Begin basic configurations	/
		Lecturer check-in: confirm all requirements covered	/
Week 9	Core Implementation	Configure routing, switching, DHCP/NAT/ACL	/
		Conduct basic connectivity tests	/
		Lecturer check-in: demonstrate partial working network	/
Week 10	Troubleshooting & Enhancement	Fix issues and refine configurations	/
		Add enhancements (if allowed)	/
		Lecturer check-in: verify functionality	/

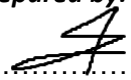
Week	Task Title	Task Item	Checklist
Week 11	Documentation & Review	Finalize topology, tables, configuration summaries, test results	/
		QA check	/
		Lecturer check-in: review near-final work	/
Week 12	Final Report & Video	Finalize written report	/
		Finalize presentation slides	/
		Record project video presentation	/
		Upload video to YouTube (Unlisted)	/
Week 13	Submission to eBwise	Submit Packet Tracer file (.pkt)	/
		Submit PDF report	/
		Submit presentation slides (.pptx or other format)	/

9. APPENDIX 3 : TASK DISTRIBUTION SHEET

Group Name: 11

NO.	TASK DESCRIPTION	MEMBER-IN-CHARGE	DATE ASSIGNED	DATE COMPLETED	REMARK
1	Core Network Cabling & Physical Topology Design	BAYAMIN, MOHAMMED MUNEER SALEM	2025/12/15	2025/12/18	Completed
2	Core Redundancy Verification (STP) & Connectivity Check	BAYAMIN, MOHAMMED MUNEER SALEM	2025/12/19	2025/12/22	Completed
3	IPv4 LAN Setup & DHCP Configuration	AGILAN BUMINATHAN	2025/12/29	2026/01/02	Completed
4	Server Services Setup (DNS, HTTP, Email, FTP	AGILAN BUMINATHAN	2026/01/03	2026/01/07	Completed
5	IPv6 Addressing Plan & Subnetting Calculations	TIMOTHY KEW WEN TZUN	2025/12/29	2025/12/31	Completed
6	IPv6 LAN Setup (DHCPv6 & SLAAC)	TIMOTHY KEW WEN TZUN	2026/01/02	2026/01/06	Completed
7	Router 4 Installation & Wireless Network Design	YOUSEF ELSAYED EZZAT ELSAYED	2026/01/08	2026/01/12	Completed
8	RADIUS Server & WPA2-Enterprise Configuration	YOUSEF ELSAYED EZZAT ELSAYED	2026/01/13	2026/01/18	Completed
9	Final Testing, Ping Verification & Simulation	All Members	2026/01/19	2026/01/22	Joint Effort
10	Report Writing & Video Presentation	All Members	2026/01/20	2026/01/25	Joint Effort

Prepared by:



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Group Leader

Name: BAYAMIN, MOHAMMED MUNEER
SALEM
ID : 243UC2436N

10. APPENDIX 4 : All members Individual Self-Evaluation Form

Individual Self-Evaluation Form (10%)
Assignment
CSN6224 Communication Networks
Trimester October/November 2025 Term 2530

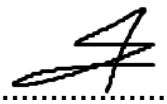
Student Name:	BAYAMIN, MOHAMMED MUNEER SALEM		Student ID:	243UC2436N
Group Name:	TC2L_GROUP_11		Group ID:	GROUP 11

Criteria	Weightage (%)	4 – Excellent	3 – Good	2 – Fair	1 – Poor	0 – None	Your Rating (Number)
Attendance	2	Attended all meetings except excused official tasks (with proof).	Missed 1 meeting with acceptable reason.	Missed 2–3 meetings; explanation acceptable but weak.	Frequently absent; weak or unclear reasons.	No attendance / no explanation.	4
Task Completion	3	Completed all tasks on time with clear evidence.	Completed most tasks; minor delays.	Completed some tasks; multiple delays.	Very minimal task completion.	No completed tasks.	4
Communication	1.5	Always responsive; active in chat & group activities.	Mostly responsive; occasional delay.	Sometimes responds; inconsistent.	Rarely responds; slow communication.	No communication at all.	4
Contribution	2	Actively contributes ideas and solutions in discussions.	Regular contributions; useful input.	Occasional contributions; basic input.	Rarely contributes; passive.	No contribution.	4
Initiative	1.5	Proactively initiates tasks and helps others consistently.	Often shows initiative and helps when needed.	Sometimes helps; limited initiative.	Rarely initiates; only helps when asked.	No initiative or avoids helping.	4

By signing below, you confirm that all information provided in this form is true and accurate.

Declaration

		I hereby confirm that the above self-evaluation is accurate.



.....

Student Name: BAYAMIN, MOHAMMED MUNEER SALEM
Student ID: 243UC2436N
Date: 30 JANUARY 2026

Individual Self-Evaluation Form (10%)
Assignment
CSN6224 Communication Networks
Trimester October/November 2025 Term 2530

Student Name:	AGILAN BUMINATHAN		Student ID:	243UC245F7
Group Name:	TC2L_GROUP_11		Group ID:	GROUP 11

Criteria	Weightage (%)	4 – Excellent	3 – Good	2 – Fair	1 – Poor	0 – None	Your Rating (Number)
Attendance	2	Attended all meetings except excused official tasks (with proof).	Missed 1 meeting with acceptable reason.	Missed 2–3 meetings; explanation acceptable but weak.	Frequently absent; weak or unclear reasons.	No attendance / no explanation.	4
Task Completion	3	Completed all tasks on time with clear evidence.	Completed most tasks; minor delays.	Completed some tasks; multiple delays.	Very minimal task completion.	No completed tasks.	4
Communication	1.5	Always responsive; active in chat & group activities.	Mostly responsive; occasional delay.	Sometimes responds; inconsistent.	Rarely responds; slow communication.	No communication at all.	4
Contribution	2	Actively contributes ideas and solutions in discussions.	Regular contributions; useful input.	Occasional contributions; basic input.	Rarely contributes; passive.	No contribution.	4
Initiative	1.5	Proactively initiates tasks and helps others consistently.	Often shows initiative and helps when needed.	Sometimes helps; limited initiative.	Rarely initiates; only helps when asked.	No initiative or avoids helping.	4

By signing below, you confirm that all information provided in this form is true and accurate.

Declaration

		I hereby confirm that the above self-evaluation is accurate.

……
Student Name: AGILAN BUMINATHAN
Student ID: 243UC245F7
Date: 30 JANUARY 2026

Individual Self-Evaluation Form (10%)
Assignment
CSN6224 Communication Networks
Trimester October/November 2025 Term 2530

Student Name:	YOUSEF ELSAYED EZZAT ELSAYED		Student ID:	1211103488
Group Name:	TC2L_GROUP_11		Group ID:	GROUP 11

Criteria	Weightage (%)	4 – Excellent	3 – Good	2 – Fair	1 – Poor	0 – None	Your Rating (Number)
Attendance	2	Attended all meetings except excused official tasks (with proof).	Missed 1 meeting with acceptable reason.	Missed 2–3 meetings; explanation acceptable but weak.	Frequently absent; weak or unclear reasons.	No attendance / no explanation.	4
Task Completion	3	Completed all tasks on time with clear evidence.	Completed most tasks; minor delays.	Completed some tasks; multiple delays.	Very minimal task completion.	No completed tasks.	4
Communication	1.5	Always responsive; active in chat & group activities.	Mostly responsive; occasional delay.	Sometimes responds; inconsistent.	Rarely responds; slow communication.	No communication at all.	4
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By signing below, you confirm that all information provided in this form is true and accurate.

Declaration

		I hereby confirm that the above self-evaluation is accurate.

Student Name: YOUSEF ELSAYED EZZAT ELSAYED
Student ID: 1211103488
Date: 30 JANUARY 2026

Individual Self-Evaluation Form (10%)
Assignment
CSN6224 Communication Networks
Trimester October/November 2025 Term 2530

Student Name:	TIMOTHY KEW WEN TZUN		Student ID:	242UC244LB
Group Name:	TC2L_GROUP_11		Group ID:	GROUP 11

Criteria	Weightage (%)	4 – Excellent	3 – Good	2 – Fair	1 – Poor	0 – None	Your Rating (Number)
Attendance	2	Attended all meetings except excused official tasks (with proof).	Missed 1 meeting with acceptable reason.	Missed 2–3 meetings; explanation acceptable but weak.	Frequently absent; weak or unclear reasons.	No attendance / no explanation.	4
Task Completion	3	Completed all tasks on time with clear evidence.	Completed most tasks; minor delays.	Completed some tasks; multiple delays.	Very minimal task completion.	No completed tasks.	4
Communication	1.5	Always responsive; active in chat & group activities.	Mostly responsive; occasional delay.	Sometimes responds; inconsistent.	Rarely responds; slow communication.	No communication at all.	4
Contribution	2	Actively contributes ideas and solutions in discussions.	Regular contributions; useful input.	Occasional contributions; basic input.	Rarely contributes; passive.	No contribution.	4
Initiative	1.5	Proactively initiates tasks and helps others consistently.	Often shows initiative and helps when needed.	Sometimes helps; limited initiative.	Rarely initiates; only helps when asked.	No initiative or avoids helping.	4

By signing below, you confirm that all information provided in this form is true and accurate.

Declaration

		I hereby confirm that the above self-evaluation is accurate.

……
Student Name: TIMOTHY KEW WEN TZUN
Student ID: 242UC244LB
Date: 30 JANUARY 2026