



**ADVENTIST UNIVERSITY
OF CENTRAL AFRICA**

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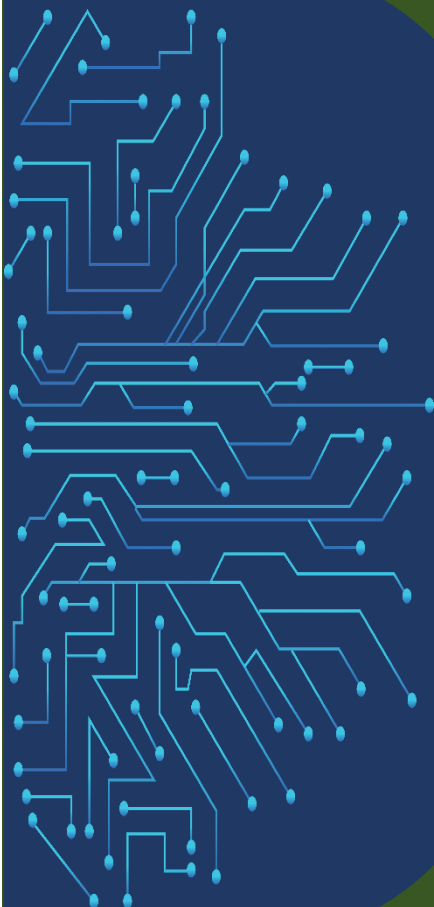
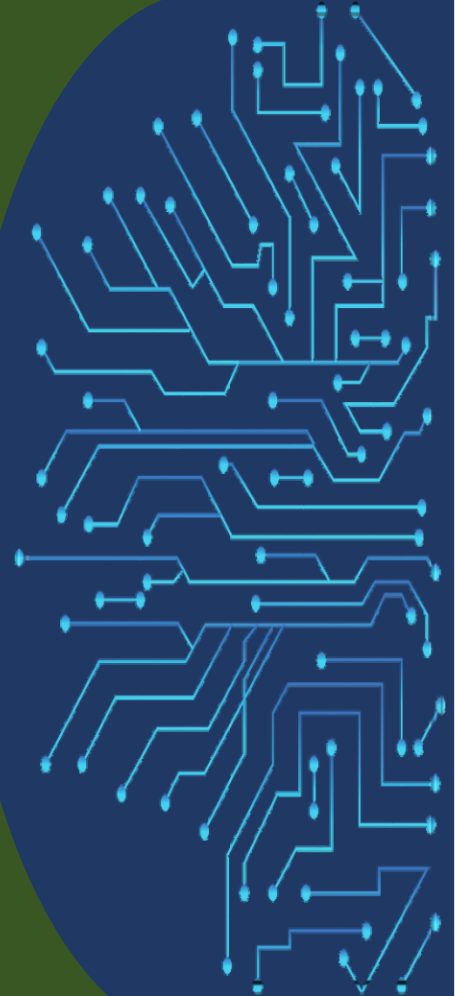
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COURSE NAME: Computer Networks

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ASSIGNMENT TITLE: Assignment#1

DATE: Oct-12-2025



**HTTP WEB SERVER & MAIL SERVER
SET UP CONFIGURATION LAB
IN CISCO PACKET TRACER**

HANDS-ON LAB

Prepared by: Joseph MUTANGANA

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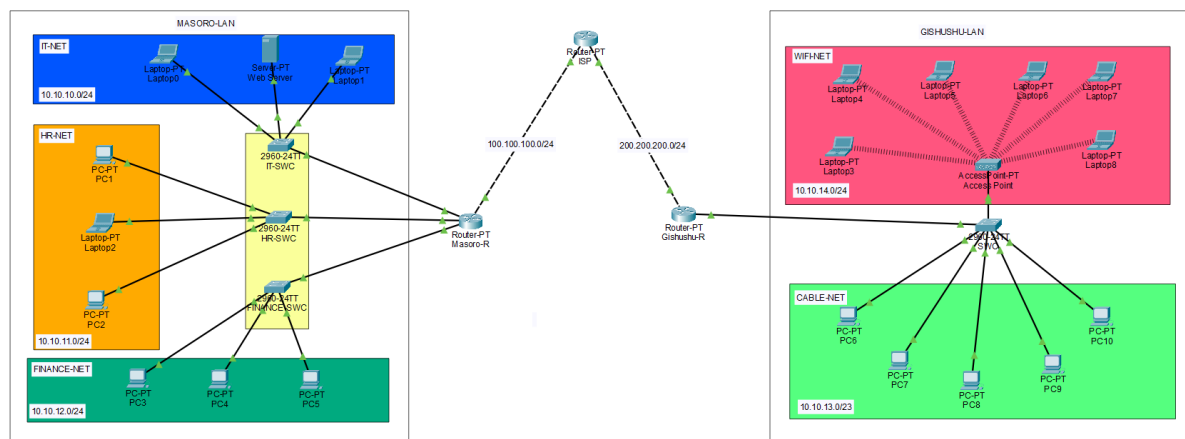
1. Introduction

In this lab, we configure **HTTP web and mail services on Cisco Packet Tracer servers** and enable client PCs to access them.

- The **HTTP web server** allows network PCs to access hosted web pages through browsers.
- The **mail server** allows PCs to **send and receive emails** within the network.

The purpose of this lab is to **learn how to set up servers, assign IP addresses, configure DNS (if needed), and verify client access** to these services in a simulated network environment.

2. Network Topology Design



Routers: Used to make connect network and Acts as DHCP server

Switch: Connects multiple end devices

End Devices (Server, PCs/Laptops): Clients used in topology

3. HTTP Web Server Setup

On server

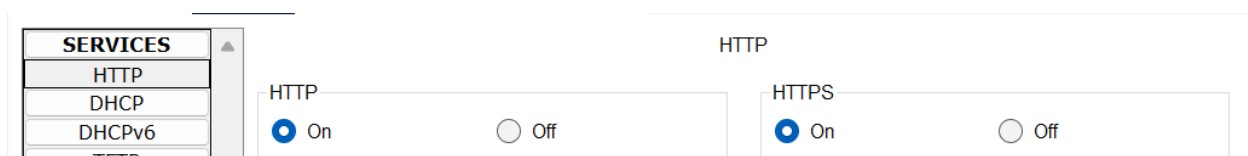
Step 1: Open Server

Step 2: Go to service tab

Step 3: Select HTTP on left side

Step 4: Enable on button on HTTP

On Clients PCs/Laptops



Verification:

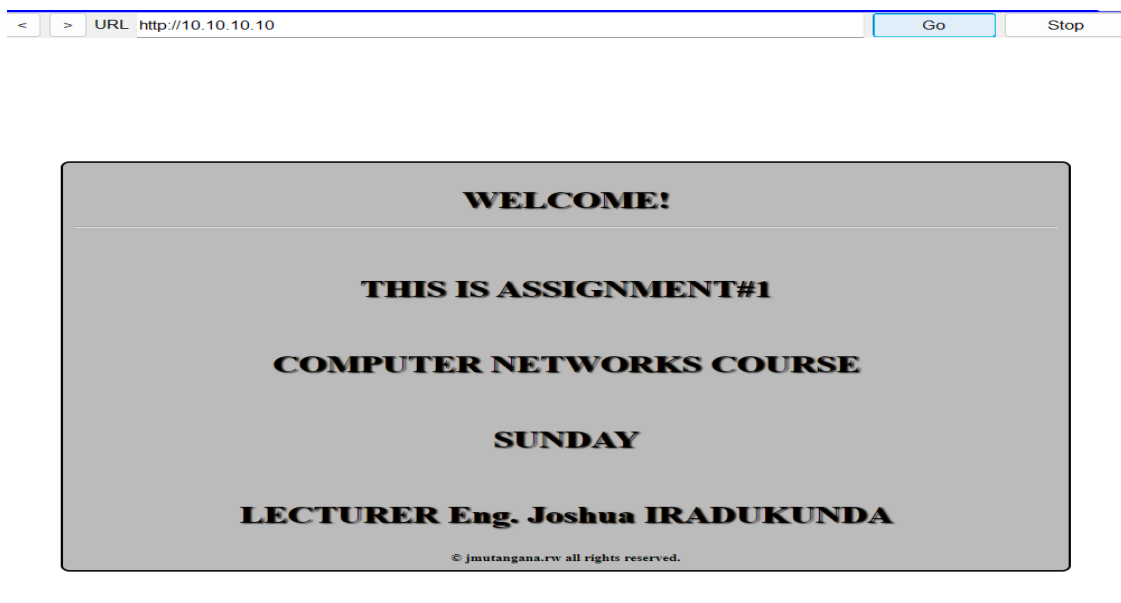
On Clients PCs/Laptops:

Step 1: Open client

Step 2: Go to desktop tab

Step 3: Choose web browser

Step 4: In URL field type dns or server IP address



4. Mail Server Configuration

On Clients Server:

Step 1: Open Server

Step 2: Go to service tab

Step 3: Select EMAIL on left side

Step 4: Enable (on) button to open SMTP

Step 5: Enter Domain Name

Step 6: Click set button

Step 7: Create user by Entering username and password

Step 8: Click on Plus Button on right side

The screenshot shows a web-based configuration interface for a mail server. The top navigation bar includes tabs: Physical, Config, Services (selected), Desktop, Programming, and Attributes. On the left, a 'SERVICES' sidebar lists various services: HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL (highlighted), FTP, and IoT. The main content area is titled 'EMAIL' and contains two service status boxes: 'SMTP Service' and 'POP3 Service', both with 'ON' radio buttons selected. Below these, the 'Domain Name' is set to 'auca.rw' with a 'Set' button. A 'User Setup' section shows a list of users: 'joseph' and 'alice'. The 'User' field is empty, and the 'Password' field is also empty.

On Clients PCs/Laptops:

Step 1: Open client

Step 2: Go to desktop tab

Step 3: Choose Email

Step 4: Fill required inputs

Step 5: Save

Physical Config **Desktop** Programming Attributes

Configure Mail X

User Information

Your Name: Joseph

Email Address: joseph@auca.rw

Server Information

Incoming Mail Server: 10.10.10.10

Outgoing Mail Server: 10.10.10.10

Logon Information

User Name: joseph

Password: ●●●

Save Remove Clear Reset

Verification

On clients/PCs and Laptops

Compose email

Compose Mail X

Send

To: joseph@auca.rw

Subject: Info

Hello Joseph!

Did you see that Lecturer posted assignment#1 on our canvas account?

Received mail

Message X

Reply

From: alice@auca.rw Sent: Mon Sep 15 2025 12:37:49

To: joseph@auca.rw

Subject: Assignment#1 on Canvas

Hello Joseph!

Did you see that Lecturer posted assignment#1 on our canvas account?

5.Achieved Outcomes

- Clients are able to send email
- Clients are able to access HTTP service
- Hands on work experience

Summary:

- Enabled **HTTP service** on the web server and tested access from client PCs.
- Enabled **SMTP and POP3/IMAP services** on the mail server and verified email sending/receiving between PCs.
- Confirmed that tested PCs could **access web pages and exchange emails**, demonstrating correct server configuration and network connectivity.

END.