INSTITUTE OF COMPUTER TECHNOLOGY

B. TECH COMPUTER SCIENCE AND ENGINEERING

Subject: Computer Networks[CN]

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SEM : 5

Class : A

Batch : 52 (CS)

Practical 2

Aim: To demonstrate configuration of Mail Server (SMTP)

Scenario:

Mr. Tim is planning to set up the network for his company's branch office which contains 2 departments - Department A and Department B. The configuration should be done such that all the devices in those departments should be able to reach each other. For security reasons, Mr. Tim doesn't want to use any external company service for mail. So, he asked his Network Engineer to set up the server in the company premises only to use the mail services. Therefore, help the network Engineer to do the same. Note the important point while designing and implementing the network. The branch office is connected to the main office. Therefore you need to show the network of the main office as well. The mail domain of the main office is future.first.in and the mail domain of the branch office is future.second.in. All the users in the main office and branch office should be able to send and receive the mail. Design the network so that at least 2 users are there in branch office and at least 2 users in the main office.

Note:

Make sure last two digits of your enrollment numbers appears in network IP address that must be visible in snapshot of the cisco packet tracer. i.e. 192. XX .10.1 (XX indicates last two digits of your enrollment no.)

Configuration:

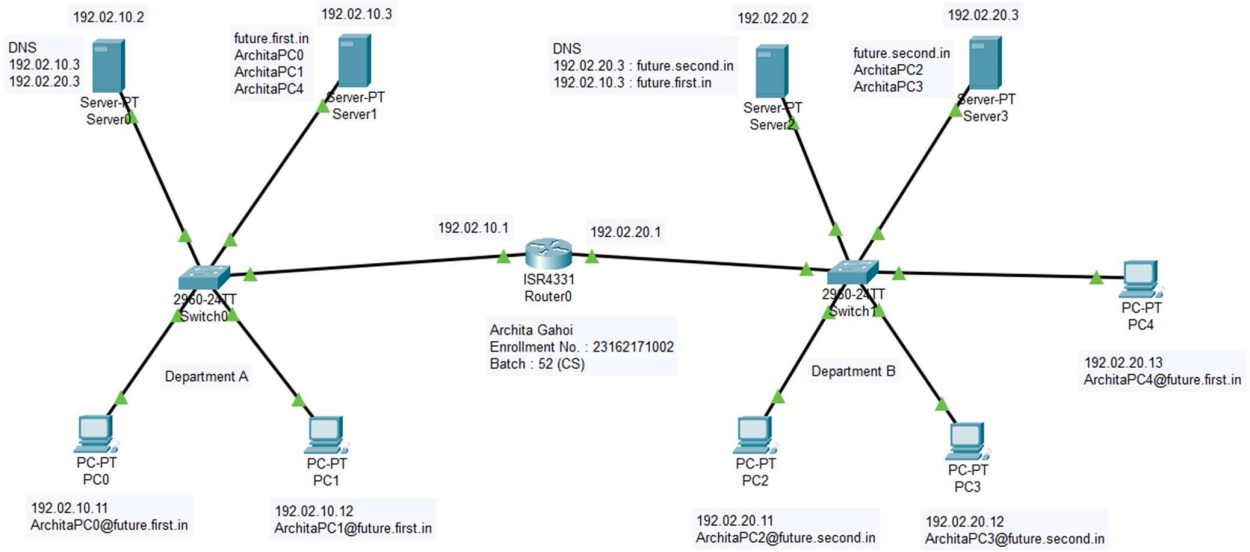
1. IP CONFIG

2. ALL DNS CONFIG

3. ALL SMTP SERVER CONFIG

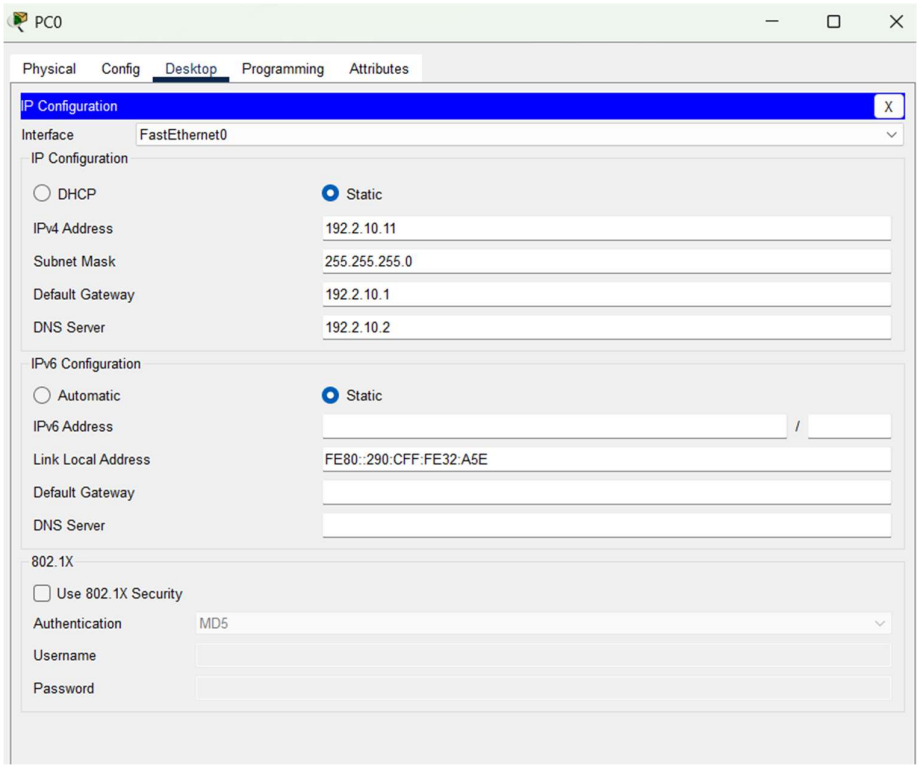
Output:

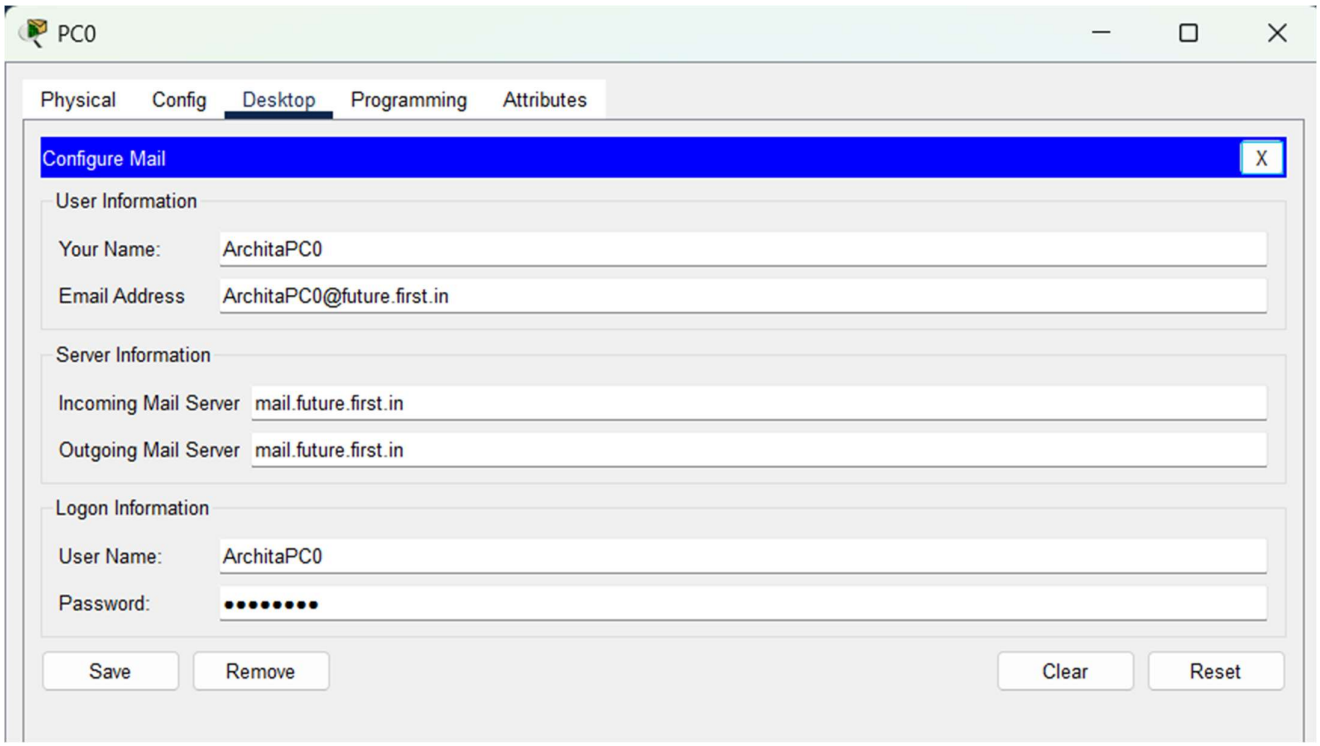
⇨ Main Circuit



1] IP CONFIG

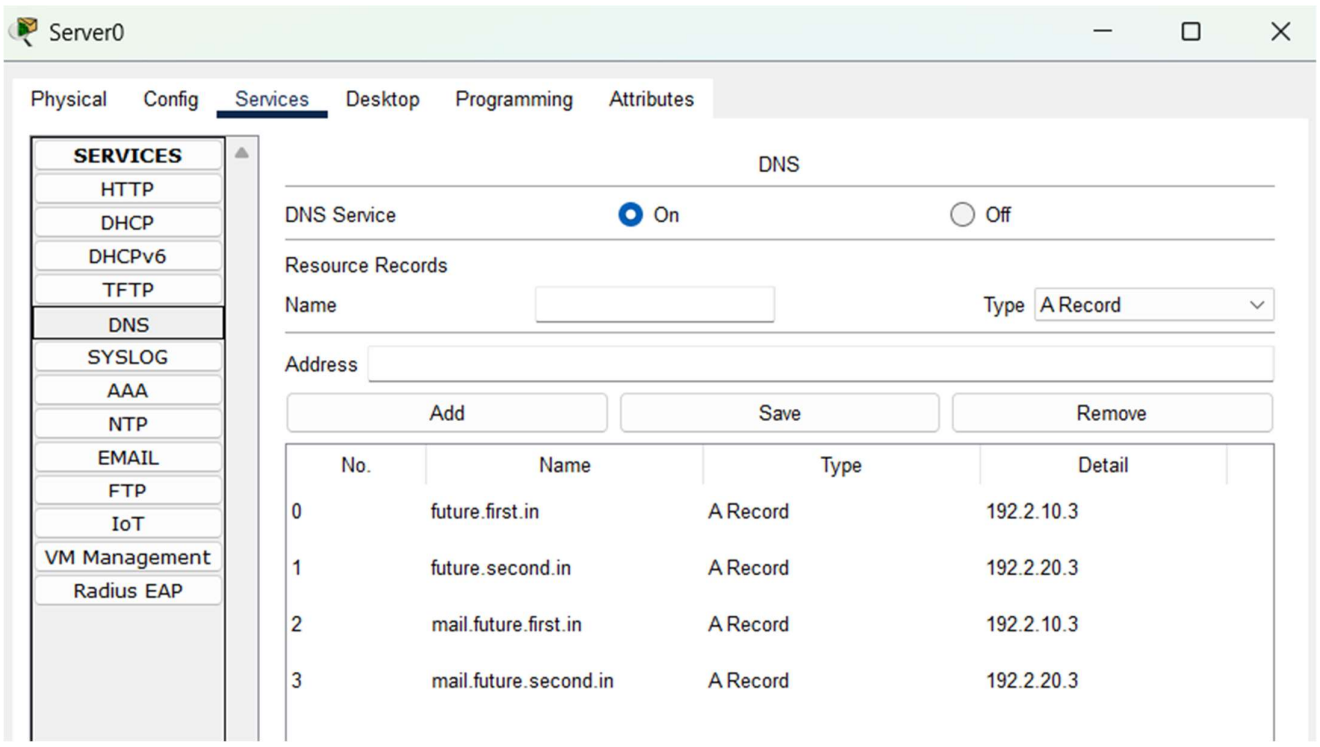
- PC0



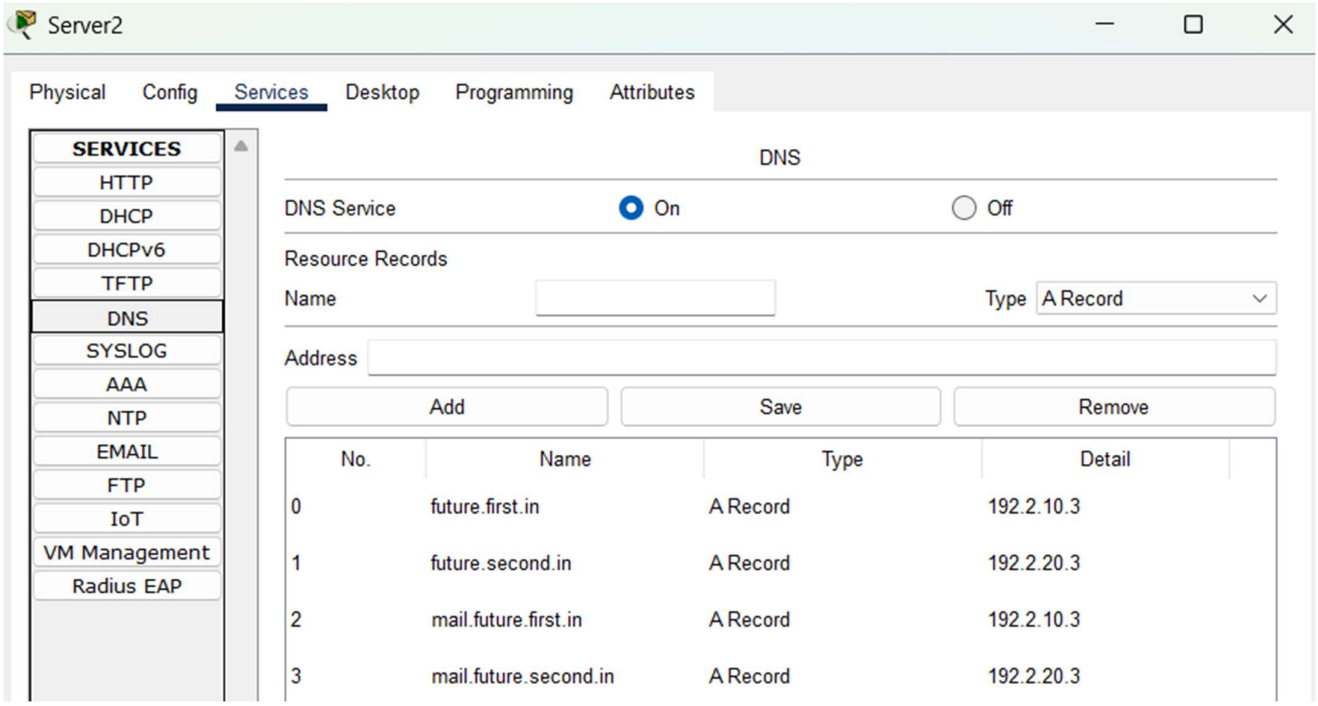


2] DNS Config

- Server 0 – DNS

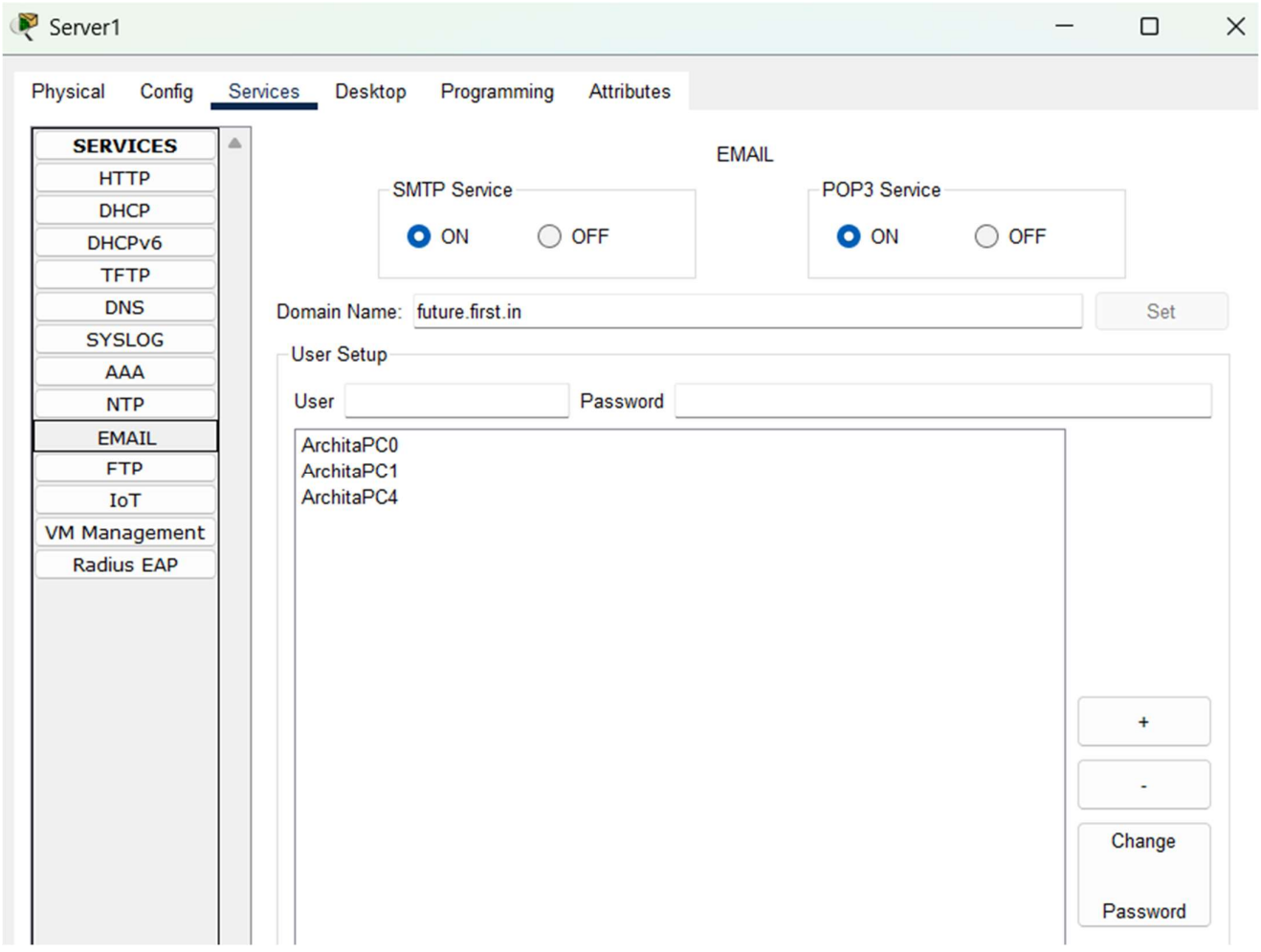


- Server 2 – DNS

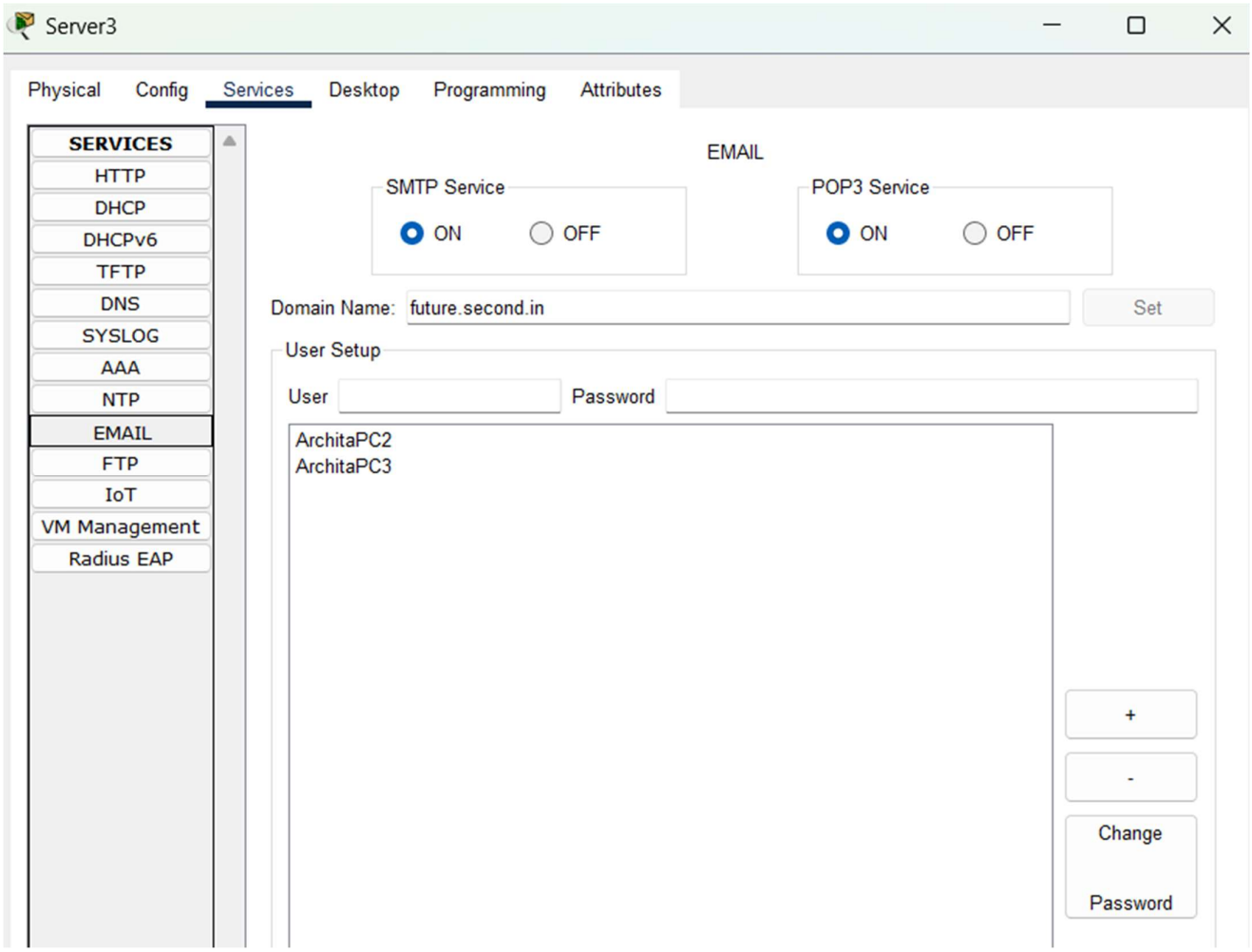


3] SMTP Config

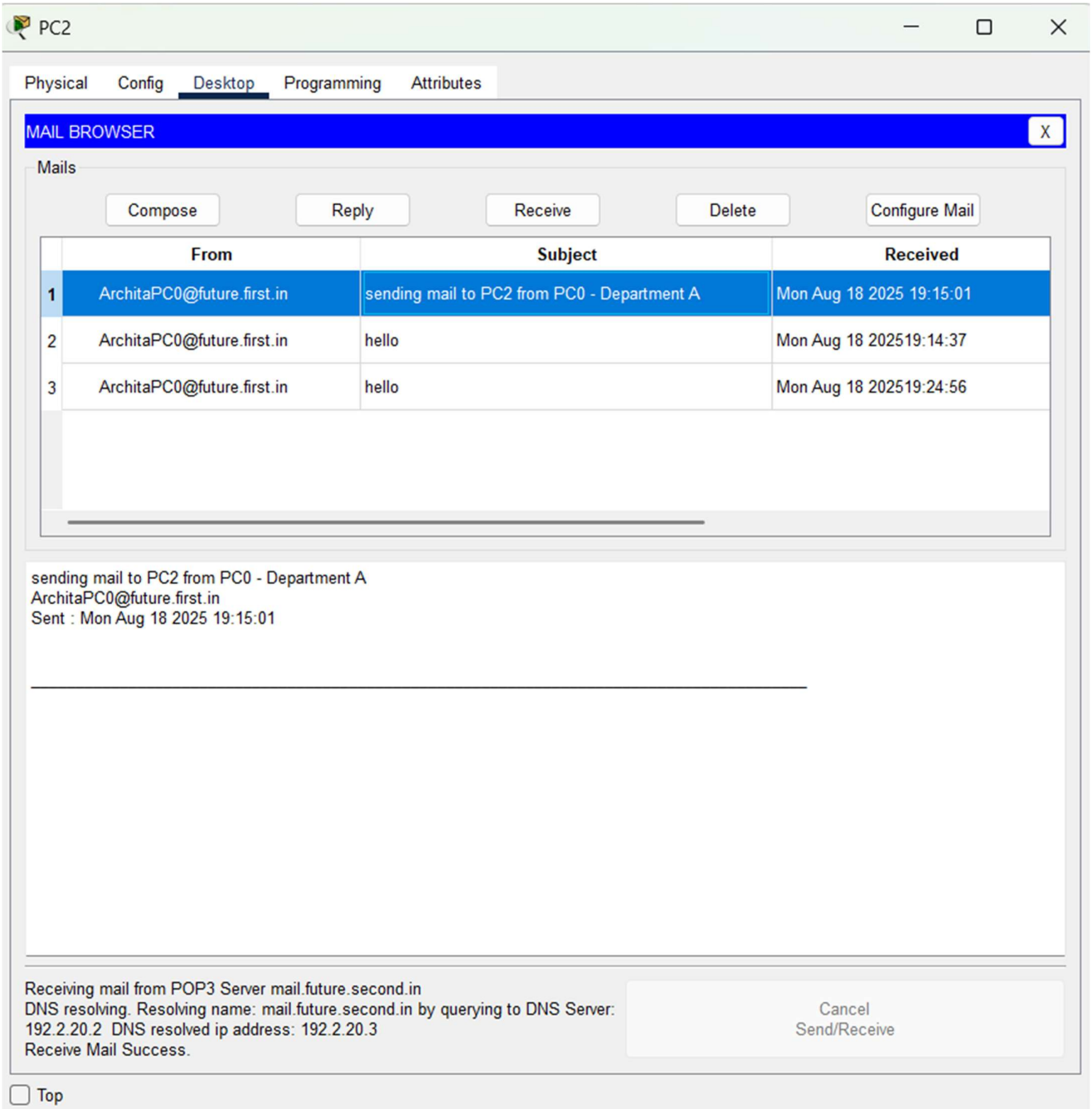
- Server 1 – SMTP



- Server 3 – SMTP



⇨ Mail Transfer from PC0 TO PC2



Conclusion:

The configuration of the Mail Server (SMTP) was successfully demonstrated, enabling the sending and management of emails over a network. This experiment helped understand the working of SMTP protocol and its role in reliable email communication.