

Exercise 1 – Configuring POP3 Services

Objective:

- Configure and test **POP3** protocol in Exchange 2019 using **GUI** and **PowerShell**

Tasks:

Part 1: Enable and Configure POP3 in Exchange Admin Center (EAC)

1. Open **Exchange Admin Center (EAC)** and go to **servers > servers**.
2. Double-click your Exchange server and select the **POP3 protocol**.
3. Set the **Authenticated time-out** to **10 minutes**.
4. Limit the number of simultaneous connections to **400**, per IP to **200**, and per user to **3**.
5. Save your settings.

Part 2: Configure POP3 using Exchange Management Shell (EMS)

6. Start the **POP3** and **POP3BE** services and set them to **automatic start**.
7. Verify POP3 settings using **Get-PopSettings**.
8. Configure the login type to **SecureLogin**
9. Enable POP3 access **for all mailboxes** using a **pipeline**.
10. Restart the **POP3** and **POP3BE** services.

Exercise 2 – Configuring IMAP4 Services

Objective:

- Configure and test **IMAP4** protocol in Exchange 2019 using **GUI** and **PowerShell**

Tasks:

Part 1: Enable and Configure IMAP4 in Exchange Admin Center (EAC)

1. Open **Exchange Admin Center (EAC)** and go to **Servers > Servers**.
2. Double-click your Exchange server and select the **IMAP4 protocol**.
3. Set the connection timeout to **15 minutes**.
4. Limit the number of simultaneous connections to **600**, per IP to **300**, and per user to **4**.
5. Save your settings.

Part 2: Configure IMAP4 using Exchange Management Shell (EMS)

6. Start the **IMAP4** and **IMAP4BE** services and set them to **automatic start**.
7. Verify IMAP4 settings using **Get-ImapSettings**.
8. Enable **IMAP4** access for **all mailboxes** using a **pipeline**.
9. Restart the **IMAP4** and **IMAP4BE** services.

Exercise 3 – Testing POP3 and IMAP4 on Windows 11

Objective:

- Configure and test **POP3** and **IMAP4** on a **domain-joined Windows 11 client**

Tasks:

1. On the Exchange Server → Disable the NAT network card



2. Start **Windows 11 VM** and log in using **Administrator@domainXX.local**
3. Using **Lab 05A-Export Exchange Certificate**, export the Exchange Server certificate on your **Windows 11** machine.
4. Using **Lab 05B-Configure Outlook Classic -POP3-IMAP4**, do the following two tasks:
 - Configure **Outlook Classic** to connect to **Exchange** using **POP3** and verify email download.
 - Reconfigure **Outlook Classic** to connect to **Exchange** using **IMAP4** and verify synchronization with the server.

Exercise 4 – Configuring and testing MAPI over HTTP

Objective:

- Enable and verify **MAPI/HTTP** connectivity for Outlook clients

Tasks:

On the Exchange server:

1. Check **MAPI/HTTP** status at the **organization level** using **PowerShell**.
2. Configure **MAPI virtual directory** with **external URL**.
3. Verify **MAPI internal** and **external URL**.
4. Configure **AutoDiscover** provider settings.
5. Enable **MAPI/HTTP** protocol for **all mailboxes**.
6. Test the **MAPI/HTTP** configuration.
7. Using **Lab 05C-Configure Outlook Classic -MAPI/HTTP**, do the following two tasks:
 - Reconfigure **Outlook Classic** to connect to **Exchange** using **MAPI/HTTP** and verify synchronization with the server.

Lab Deliverables

You should submit a **lab report** including the **screenshots** of the any **GUI configuration**, **PowerShell commands** used and its **results**.