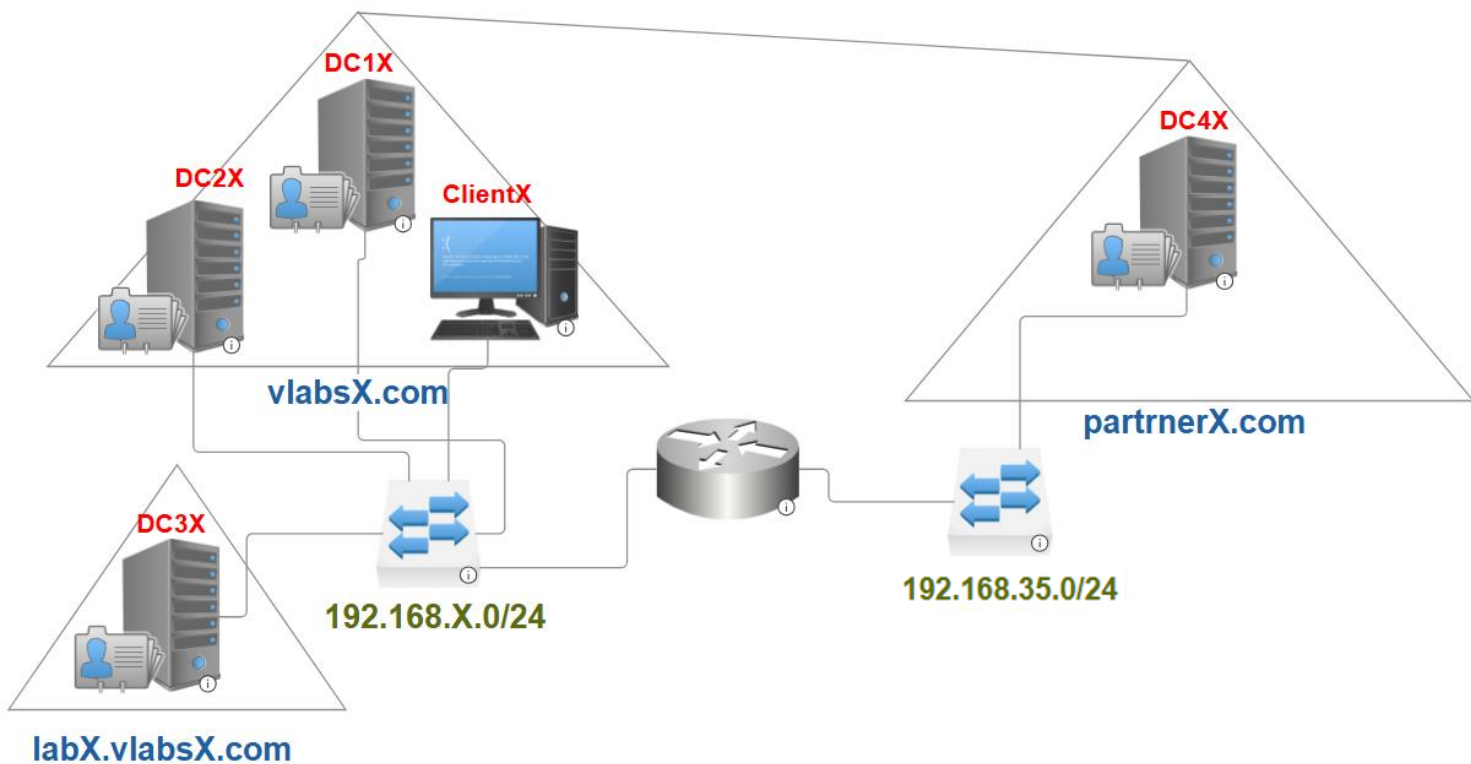# Lab Assignment 1 (Part I) - Managing AD Domains, Forests, and Trusts

Lab Overview

This lab will guide you through **configuring and managing Active Directory (AD) domains, forests, and trusts**. You will set up a **multi-forest environment**, configure DNS for communication, and establish trust relationships.

Topology

Lab Requirements

- **DC1XX (Windows Server 2022)**: PDC for vlabsXX.com

- **DC2XX (Windows Server 2025):** RODC Core for vlabsXX.com.

- **DC3XX (Windows Server 2022):** Child DC for lab.vlabsXX.com.

- **DC4XX (Windows Server 2025)**: New DC for partnerXX.com.

- **ClientXX (Windows 11):** Domain-joined to vlabsXX.com.

- **Cisco-Router (CSR1000V)**: For routing between forests

Lab Tasks

Task 1: Promote DC4XX as a New Domain Controller in a New Forest

1. Promote **DC4XX** as a **new DC in a New Forest** named **partnerXX.com** using **GUI**

    *   Install AD DS role on **DC4XX**.

    *   Create a **new forest partnerXX.com.**

Task 2: Verify Domain and Forest Functional Levels

1. Check the **Domain and Forest Functional Levels** on **vlabsXX.com**

    *   Using **Active Directory Administrative Center**

    *   Using **PowerShell**

2. Check the **Domain and Forest Functional Levels** on **partnerXX.com**

    *   Using **Active Directory Administrative Center**

    *   Using **PowerShell**

Task 3: Listing Trusts

1. List all Trusts on **vlabsXX.com** and **labsXX.vlabsXX.com**

    *   Using **Active Directory Domains and Trusts.**

    *   Using **PowerShell.**

2. List all Trusts on **partnerXX.com**

    *   Using **Active Directory Domains and Trusts.**

    *   Using **PowerShell.**

Task 4: Creating Trusts

1. **Create DNS Conditional Forwarders** to ensure both forests can resolve each other's domains.

    *   On the **DNS** server of **DC1XX** create a **Conditional Forwarder** for **partnerXX.com** using **PowerShell**

    *   Verify using **nslookup.**

- On the **DNS** server of **DC4XX** create a **Conditional Forwarder** for **vlabsXX.com** using **GUI**

- Verify using **nslookup.**

3. Using **GUI**:

- Create a **Two-Way Transitive Forest Trust** between **vlabsXX.com** and **partnerX.com**

4. Using **PowerShell:**

- Verify the Trust Status on both **Servers.**

Task 5: Testing Trust Between Two Forests

1. **On DC4XX.partnerXX.com:**

- Create **a new user** in **partnerXX.com** → **Pierre Lima / Passw0rd$**

2. **On DC2XX.vlabsXX.com (Windows Server Core, RODC):**

- Verify the **trust** relationship with **partnerXX.com** using **PowerShell.**

- Create a folder **C:\Secret**

- Share **C:\Secret** and assign permissions **Read/Write** to **p.laurin@partnerX.com.**

- Verify the **shared folder** and **NTFS permissions.**

3. **From ClientXX:**

- Log in with **Pierre Lima** from **partnerXX.com**

- Map the shared folder **\\DC2XX\Secret** as drive **S:**

- Test file creation and access.

Lab Assignment Deliverables

You should submit a **lab report** in **PDF** including **screenshots** covering your work.