# Lab 3 - Deploying Domain Controllers

Objective

In this lab you will ==**deploy multiple domain controllers**== and configure the Active Directory environment. The lab includes:

- Installing and configuring **DC1XX** as the first domain controller for **vlabsX.com**

- Joining **ClientXX** to the domain.

- Configuring **DC2XX** as a **Read-Only Domain Controller (RODC).**

- Deploying **DC3XX** as a **Child Domain Controller (labXX.vlabsXX.com)** using PowerShell.

- Verifying the domain controller promotion and testing Active Directory tools.

Topology:
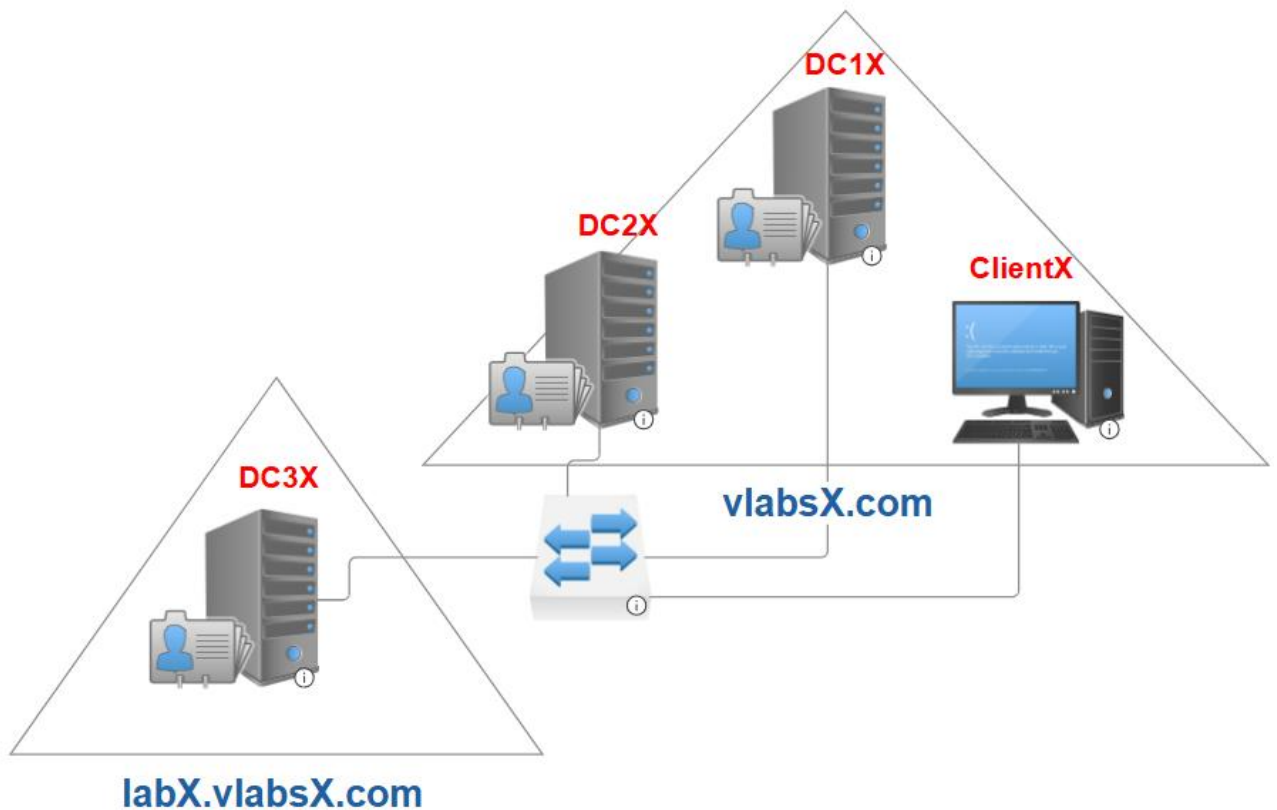
Step-by-Step Instructions

Step 1: Configure DC1XX (Primary Domain Controller)

1. Before starting **DC1XX**, remove the network card **NAT** then start the server.
2. Using **Server Manager**, install **Active Directory Domain Services (AD DS).**
3. Promote **DC1XX** to a Domain Controller in a new Forest: **vlabsXX.com**
4. Verify the DC Installation.

Step 2: Join ClientX to the Domain

1. Join **ClientX** to the **vlabsXX.com** Domain.
5. Login with the domain **administrator** to test it.

Step 3: Configure DC2XX as a Domain Controller Replica for vlabsX.com

1. Using PowerShell, join **DC2XX** to the Domain
2. Promote **DC2XX** as **DC** for **vlabsXX.com** (Not **Global Catalog**).
3. Verify DC Configuration.
4. Test AD Replication.
6. List AD Objects (Users, Groups, OUs).

Step 4: Deploy DC3XX as a Child Domain (labX.vlabsX.com) using PowerShell

1. Using **PowerShel**l, promote **DC3XX** as a **Child Domain** for **labXX.vlabsXX.com.**
2. Verify the Child Domain Setup.

Step 5: Validate All Domain Controllers

1. Check All Domain Controllers in AD.
2. Test AD Tools (Active Directory Users and Computers, AD Sites & Services, AD PowerShell Commands).

Lab Deliverables

You must submit the following screenshots:

1. **DC1XX:**

   o   Domain Controller setup verification.

2. **DC2XX (RODC):**

   o   Successful RODC promotion.

   o   **repadmin /showrepl** results.

   o   List of AD objects from RODC.

3. **DC3XX (Child Domain Controller):**

   o   Confirmation of **labx.vlabsX.com.**

   o   **Get-ADDomain -Identity "labX.vlabsX.com".**

   o   List of AD objects of this domain.