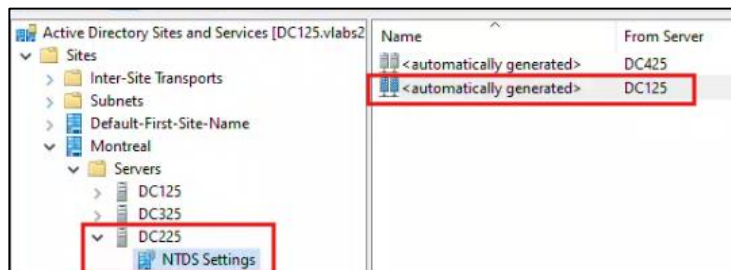# Lab Assignment 1 (Part II) - AD FSMO and GC

Task 12: Managing FSMO role and Global Catalog

1. **Reconfigure DC2XX**

   - **Login to DC2XX**

     o Use the **vlabsXX\administrator** account.

     o Keep the session open.

   - **Modify VM Network Settings**

     o Open the **VM settings** for **DC2XX.**

     o Change the **LAN segment** to **LAN1.**

   - **Update IP Configuration on DC2XX**

     o Go back to the open session on **DC2XX.**

       netsh interface ip set address name="Ethernet0" static 192.168.X.2 255.255.255.0 192.168.X.50

   - **Test Network and DNS**

     o **ping 192.168.X.1**

     o **nslookup vlabsXX.com**

   - **Reconfigure Active Directory Sites on DC1XX**

     o Log in to **DC1XX.**

     o Open **Active Directory Sites and Services.**

     o Move **DC2XX** from the **Toronto** site to the **Montreal** site.

     o Delete the **Toronto site.**

     o Delete the **subnet 192.168.45.0/24.**

   - **Force Replication from DC1XX**

     o Locate the **NTDS connection** between **DC1XX** and **DC2XX.**

     o Right-click the **connection object** and select **Replicate now.**

2. **Demote the Domain Controller (RODC)**

- Return to **DC2XX**.
- Safely remove a domain controller (typically an RODC) from the domain and return it to a standalone server.

  Uninstall-ADDSDomainController `
   -LocalAdministratorPassword (Read-Host -Prompt "Enter local admin password" -AsSecureString) `
   -Force

3. **Promote a Writable Domain Controller (Replica)**

- Promote a member server to become a **writable domain controller** for an existing domain **(vlabsXX.com)** in the **Montreal site.**

  Install-ADDSDomainController `
   -DomainName "vlabs25.com" `
   -Credential (Get-Credential) `
   -SiteName "Montreal" `
   -InstallDNS `
   -NoGlobalCatalog:$true `
   -Force

4. **Managing FSMO role and Global Catalog**

- Before starting these tasks, from **DC1XX**, open **Active Directory Sites and Services.**
- Locate the **NTDS connection** between **DC1XX** and **DC2XX.**
- Right-click the **connection object** and select **Replicate now.**
- On **DC2XX**, use the **netdom tool** to locate the **FSMO** roles of all the domains.
- On **DC2XX**, use **PowerShell** to transfer the **Domain Naming Master FSMO role** from **DC1XX** to **DC2XX**, then verify that the role has been successfully moved.
- Go back to **DC1XX,** use the **GUI** to transfer the **Domain Naming Master FSMO role** back to **DC1XX**.
- Simulate a failure scenario:
  - Stop the **DC1XX** server.
  - On **DC2XX**, use the **ntdsutil** tool to **seize** the **PDC Emulator FSMO** role.
  - Start the **DC1XX** server again.
- From **DC1XX**, use the **GUI** to verify that the **PDC Emulator FSMO role** is now held by **DC2XX**.

- Go back to **DC2XX**:
  - Configure the **PDC Emulator DC** to synchronize time with a reliable time source.
  - Enable the **Global Catalog** role.
- Return to **DC1XX**, use the **GUI** to **disable** the **Global Catalog** on **DC2XX.**