

IT 236 Project Report Form

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Date:	10/22/2025
Project Phase	Promoting NV-DC2 as a Second Domain Controller

Section 1: Executive Summary

In this phase of the **NewVue Health Infrastructure Modernization Project**, I extended the domain infrastructure by introducing a second Domain Controller (**NV-DC2**) into the existing **newvue.local** domain. Building on the previous setup of **NV-DC1**, this activity enhances **redundancy, replication, and fault tolerance**, ensuring directory services remain available even during maintenance or failure.

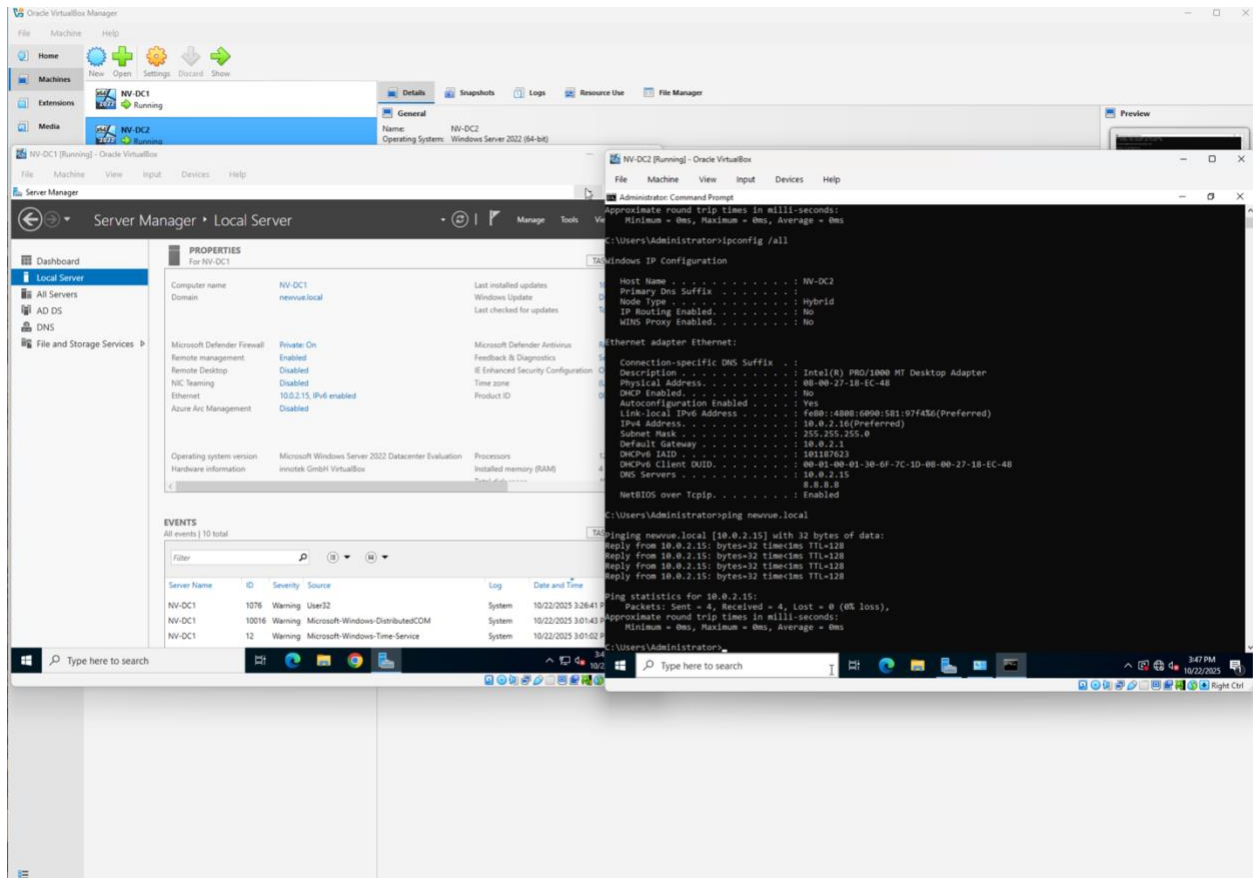
By completing this activity, I successfully joined NV-DC2 to the domain, promoted it as an additional Domain Controller (without DNS or Global Catalog roles), and verified that replication between NV-DC1 and NV-DC2 occurred successfully.

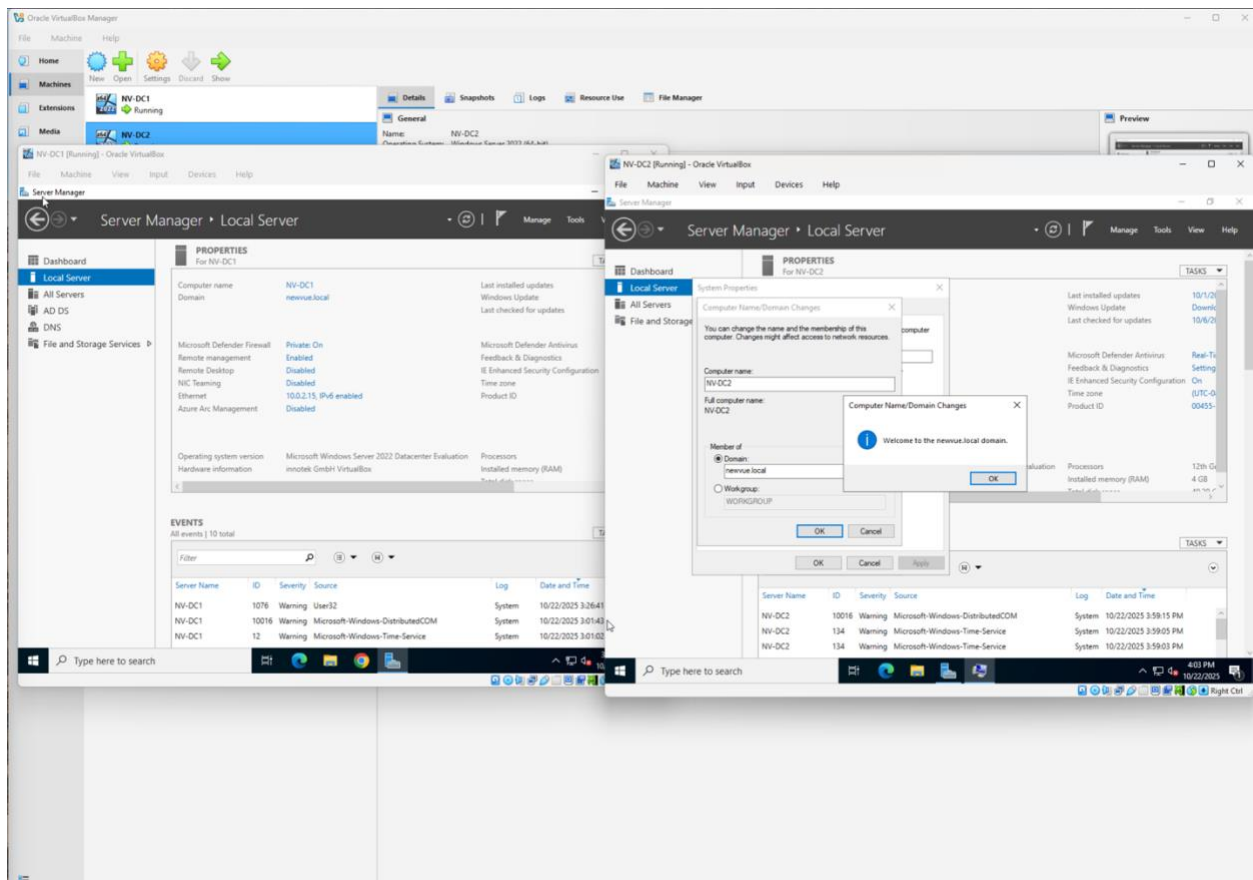
Section 2: Task-Joining NV-DC2 to the Domain (10 points)

In this section, I configured DNS on **NV-DC2** to point to **NV-DC1**, verified name resolution, and joined the server to the existing **newvue.local** domain.

Evidence

- **Evidence 1:** Screenshot showing both `ipconfig /all` and `ping newvue.local` results from NV-DC2, confirming DNS configuration and successful domain join.



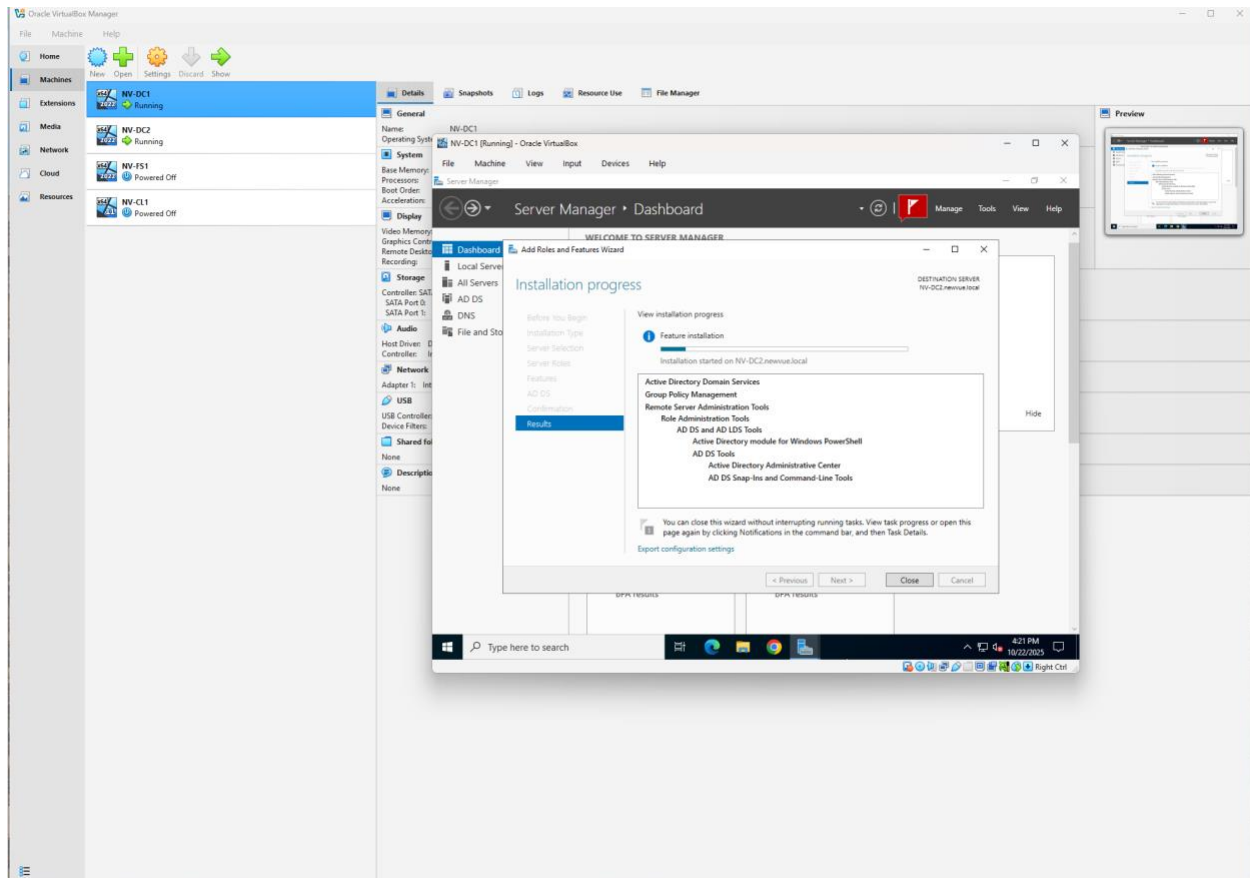


Section 3: Task — Installing the AD DS Role (10 points)

Here, I installed the **Active Directory Domain Services (AD DS)** role on NV-DC2 to prepare it for promotion.

Evidence

- **Evidence 2:** Screenshot showing successful installation or completion screen for **Active Directory Domain Services** on NV-DC2.

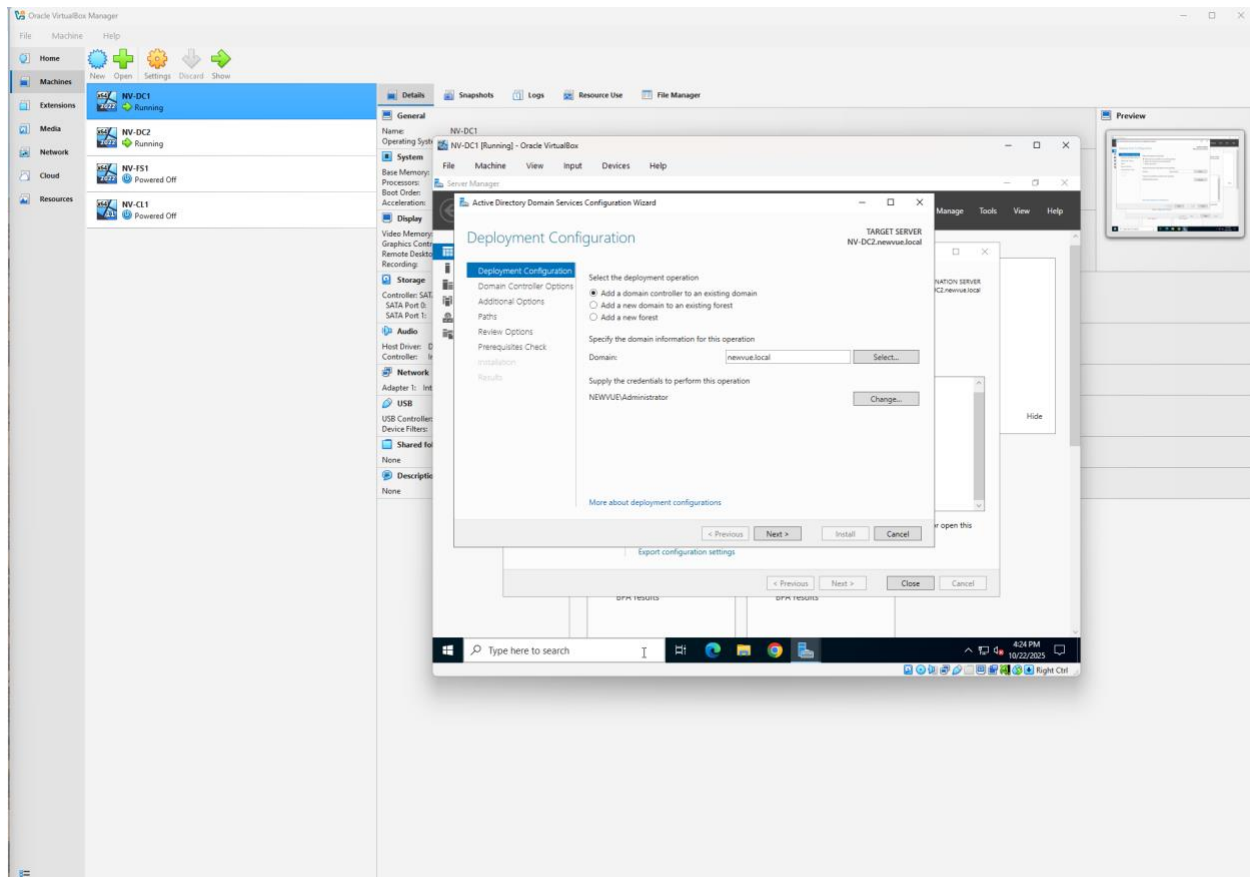


Section 4: Task — Promoting NV-DC2 to a Domain Controller (15 pts)

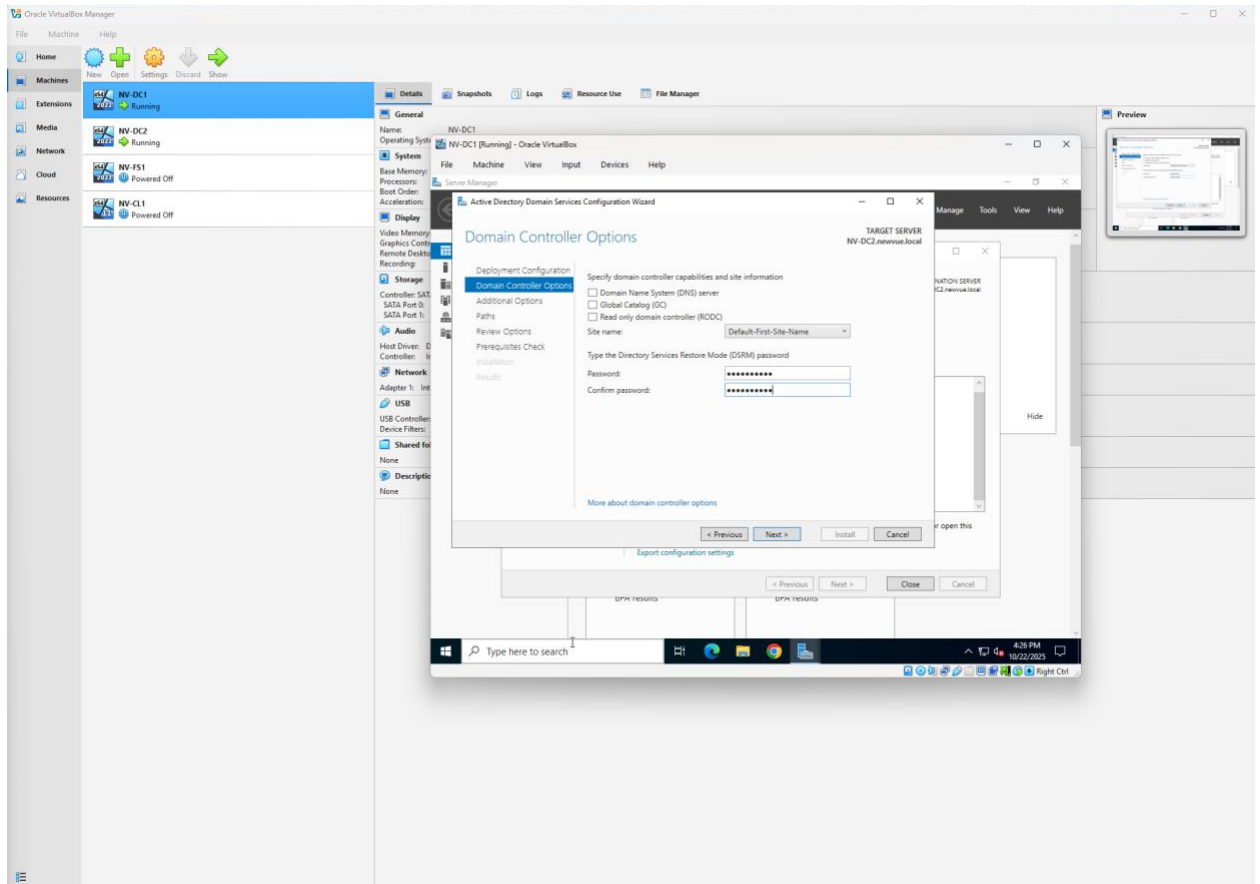
In this section, I promoted NV-DC2 to an additional Domain Controller in the **newvue.local** domain, intentionally leaving the **DNS** and **Global Catalog** roles unchecked for configuration in a later lab.

Evidence

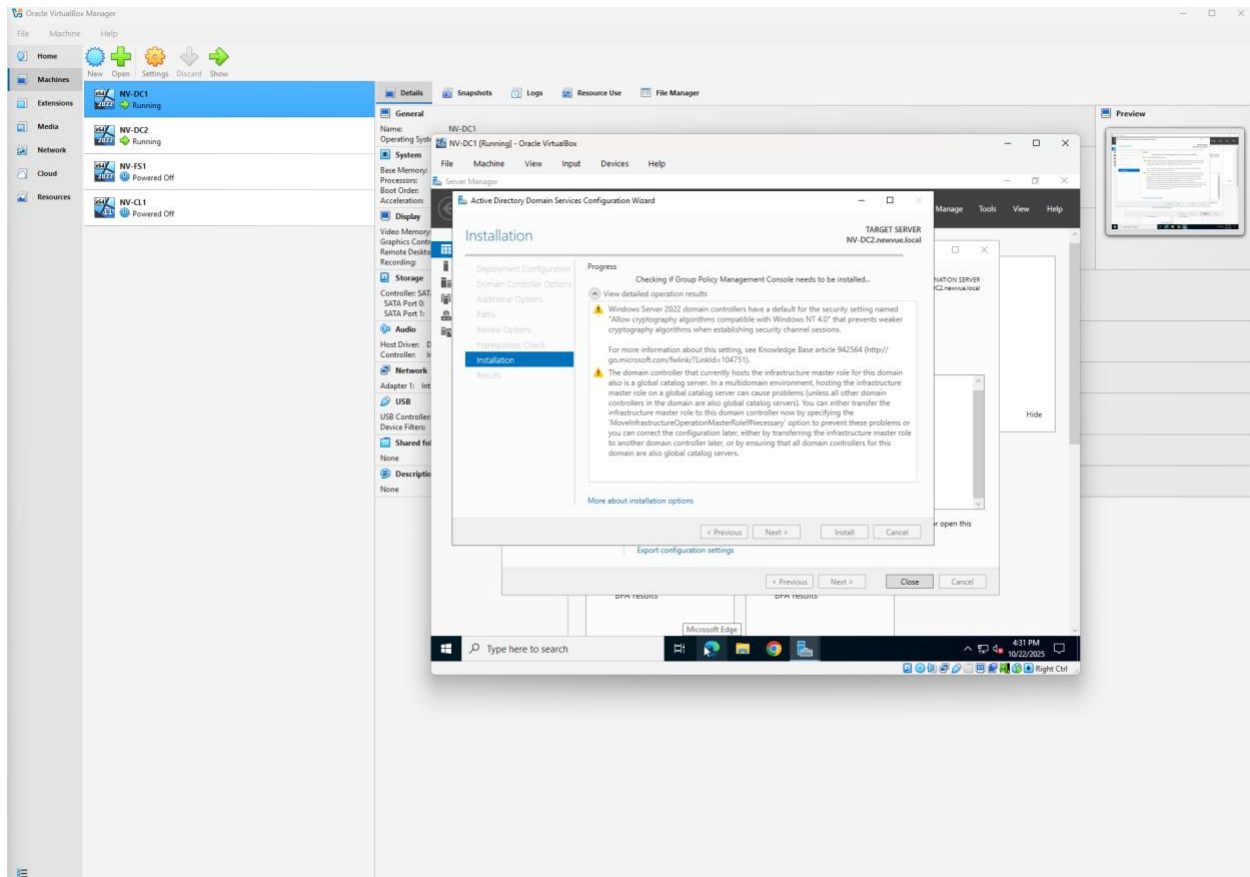
- **Evidence 3:** Screenshot of the **Deployment Configuration** window showing *Add a domain controller to an existing domain*.



- **Evidence 4:** Screenshot of the **Domain Controller Options** page with both **DNS** and **Global Catalog** unchecked.



- **Evidence 5:** Screenshot of the **Review Options / Installation Summary** screen before reboot.

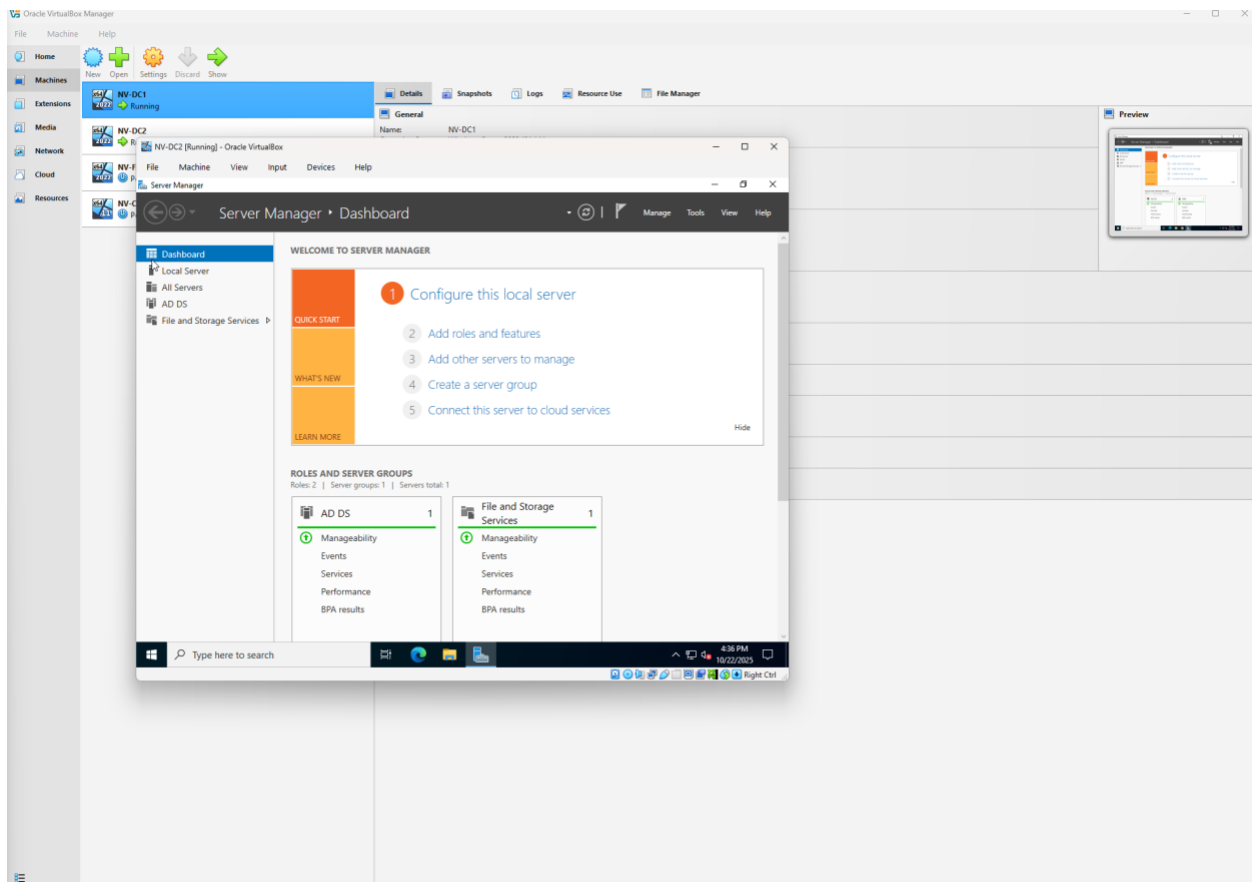


Section 5 :Task - Verifying Domain Controller Promotion (15 points)

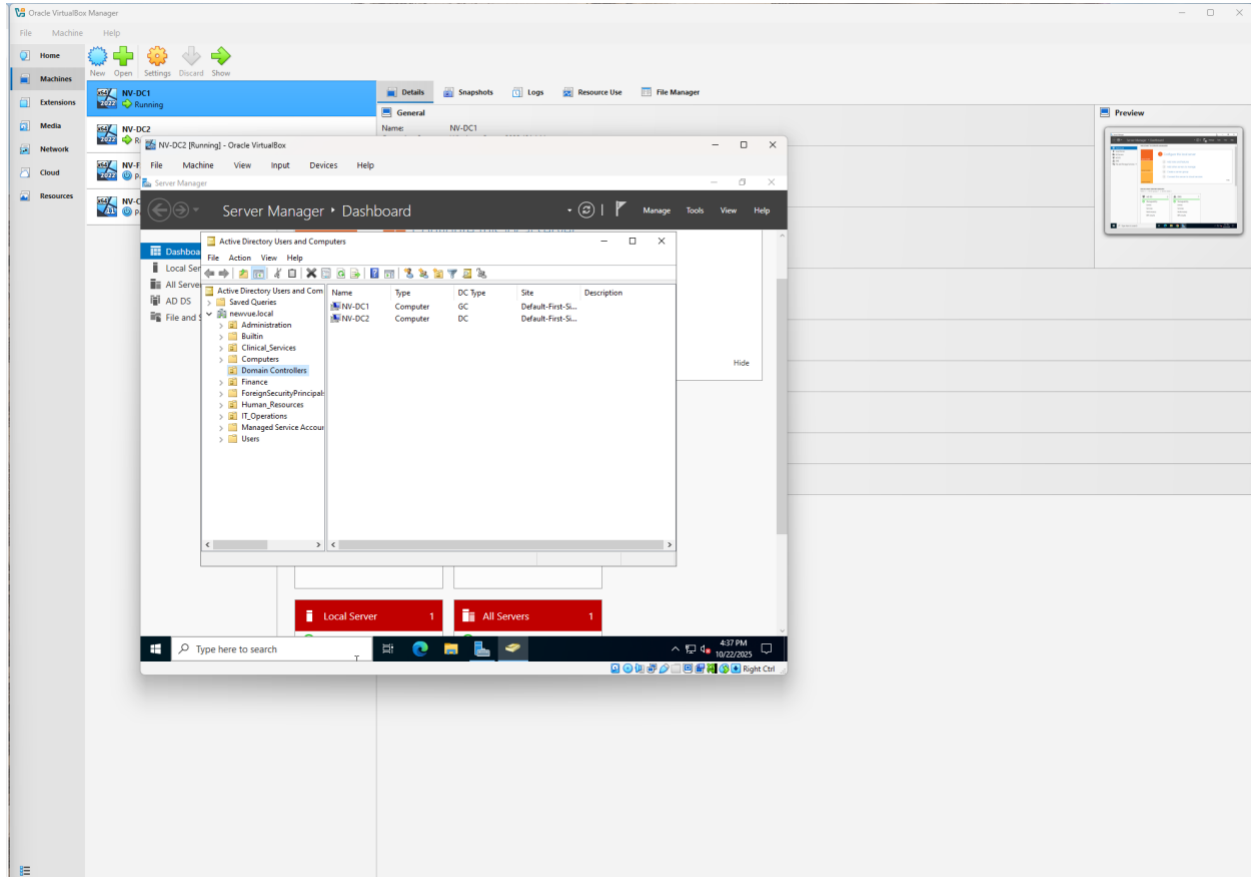
After NV-DC2 restarted, I verified that the AD DS role was active, confirmed domain access, and validated that both NV-DC1 and NV-DC2 appeared under the same site in **Active Directory Sites and Services**.

Evidence

- **Evidence 6:** Screenshot of **Server Manager** → **Dashboard** showing only **AD DS** installed (no DNS role).



- **Evidence 7: Screenshot of Active Directory Sites and Services** displaying both **NV-DC1** and **NV-DC2** under *Default-First-Site-Name*.

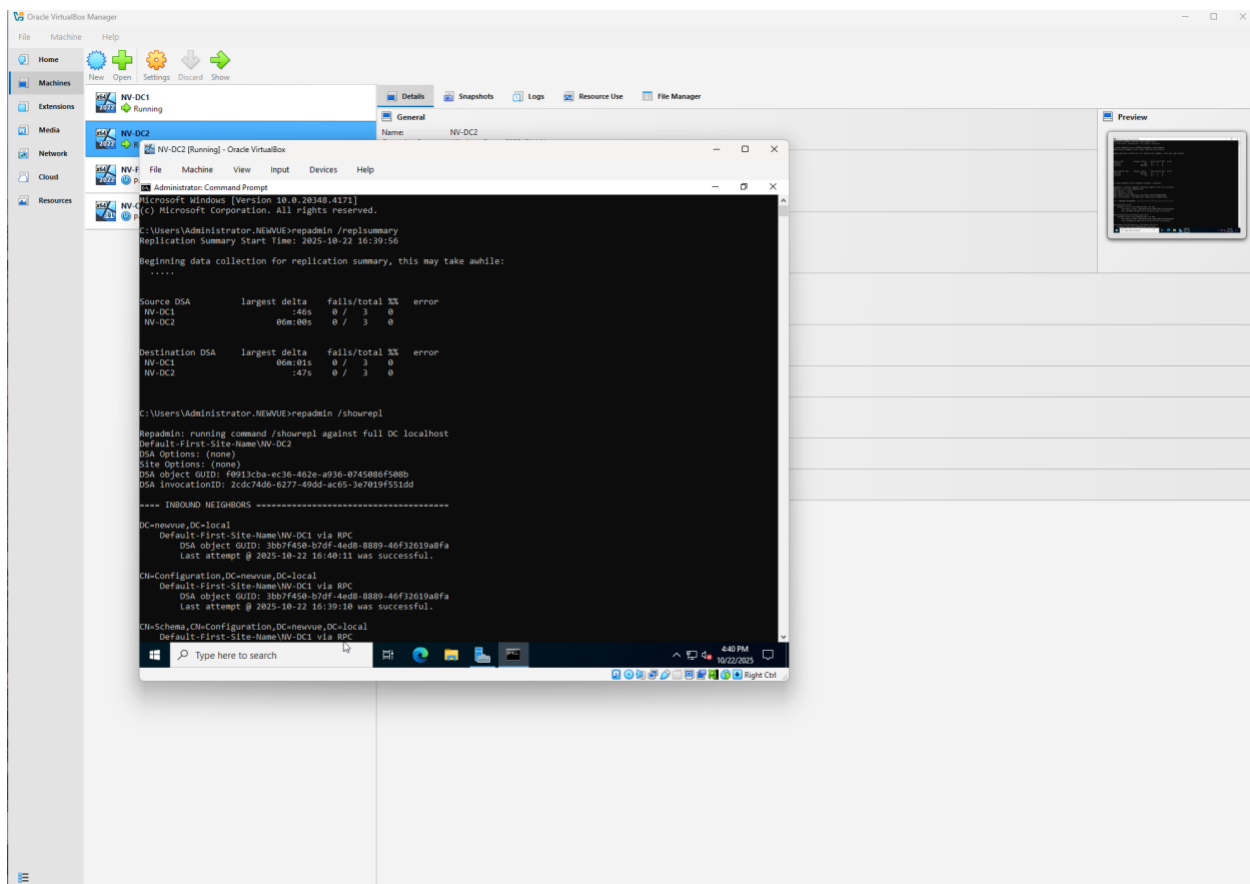


Section 6 :Task - Verifying Replication Between Domain Controllers (15 points)

I confirmed that replication between NV-DC1 and NV-DC2 was functioning correctly using the **repadmin** commands and by comparing directory objects in **ADUC**.

Evidence

- **Evidence 8:** Screenshot showing successful results of `repadmin /replsummary` or `repadmin /showrepl`.



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Note: Last step was Post Replication Review which reviews recent events confirming replication success and domain controller promotion completion

