Windows Server replication

Task Overview

This document outlines the steps taken to install Active Directory Domain Services (AD DS) on a Windows Server, add a domain controller to an existing domain (techwave.local), and verify the installation and replication.

Prerequisites

- Administrative privileges on the Windows Server.
- The server must be configured with a static IP address.
- Ensure that the existing domain (techwave.local) is operational.

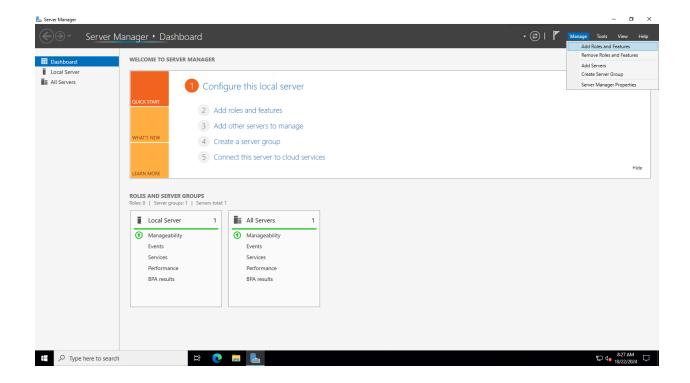
Steps to Install Active Directory Domain Services and Add a Domain Controller

Step 1: Open Server Manager

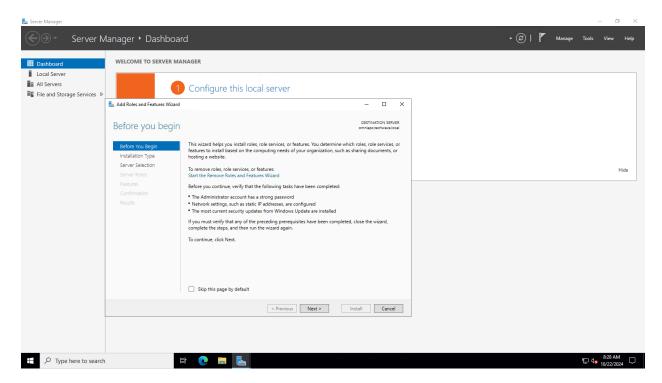
• Log in to the Windows Server.

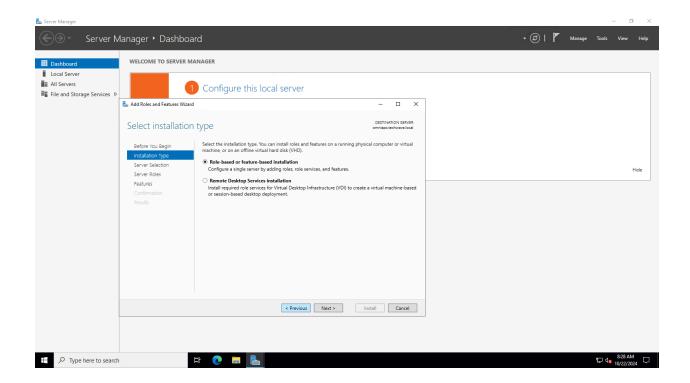
Step 2: Add Roles and Features

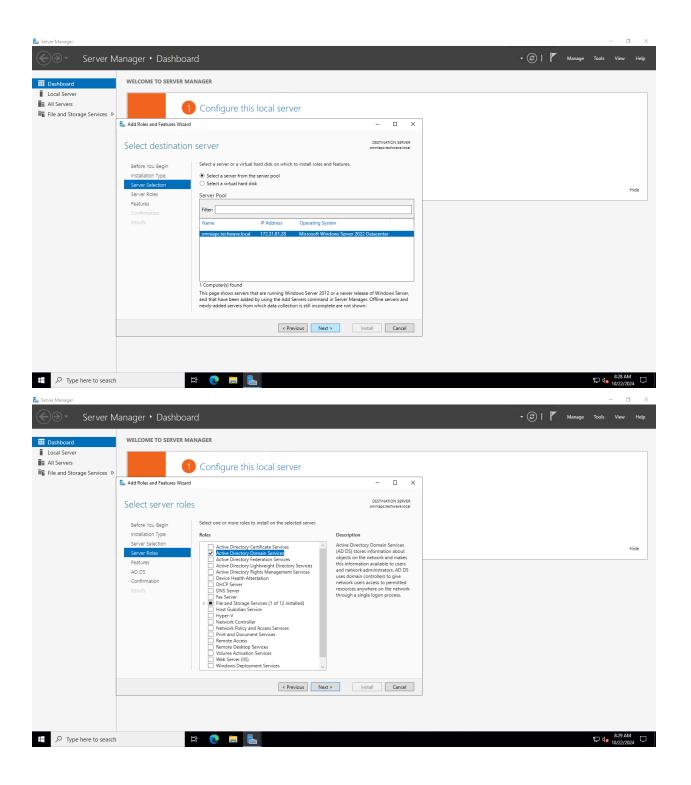
- 1. In Server Manager, click on Add roles and features.
- 2. Choose Role-based or feature-based installation and click Next.

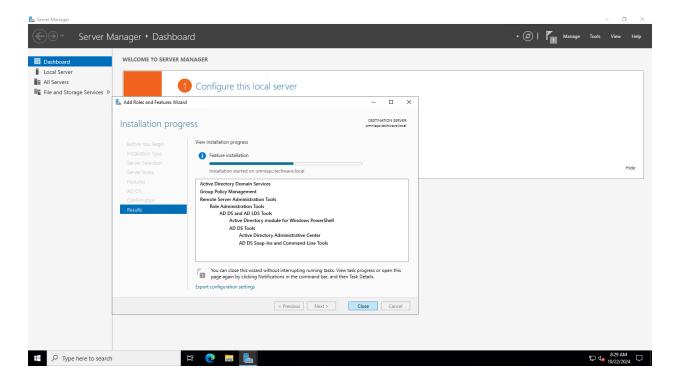


3. Click Next on the Before You Begin page.



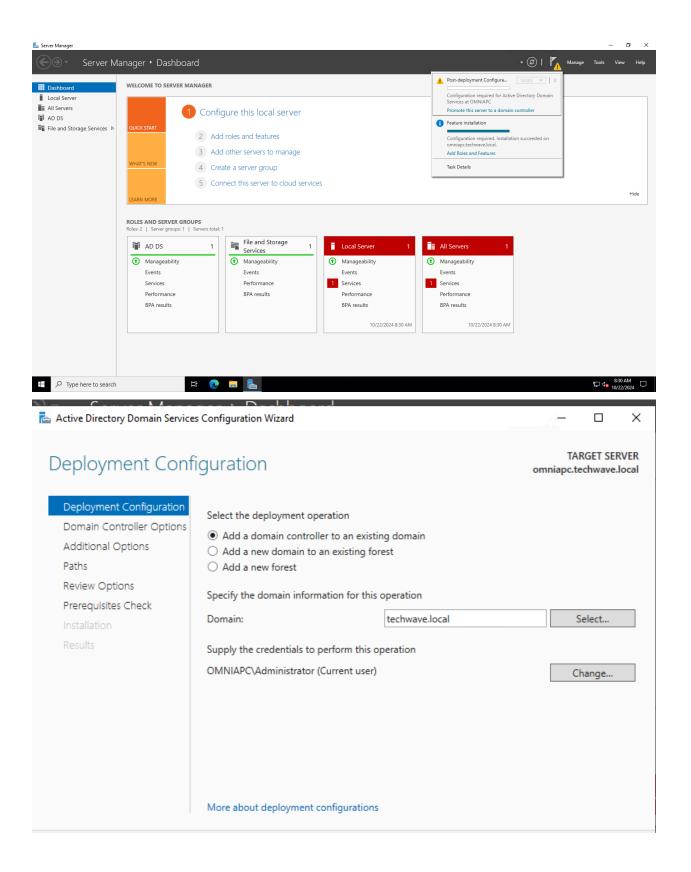


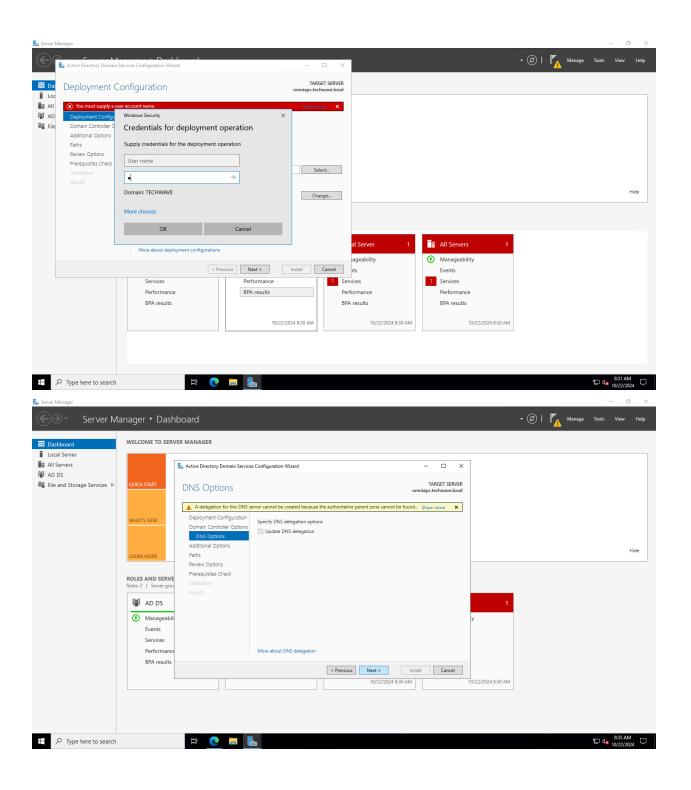


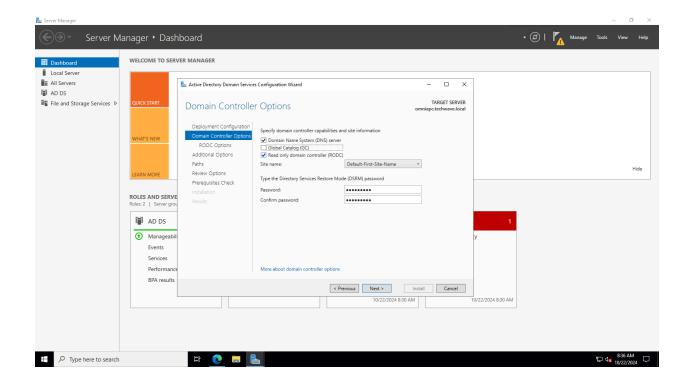


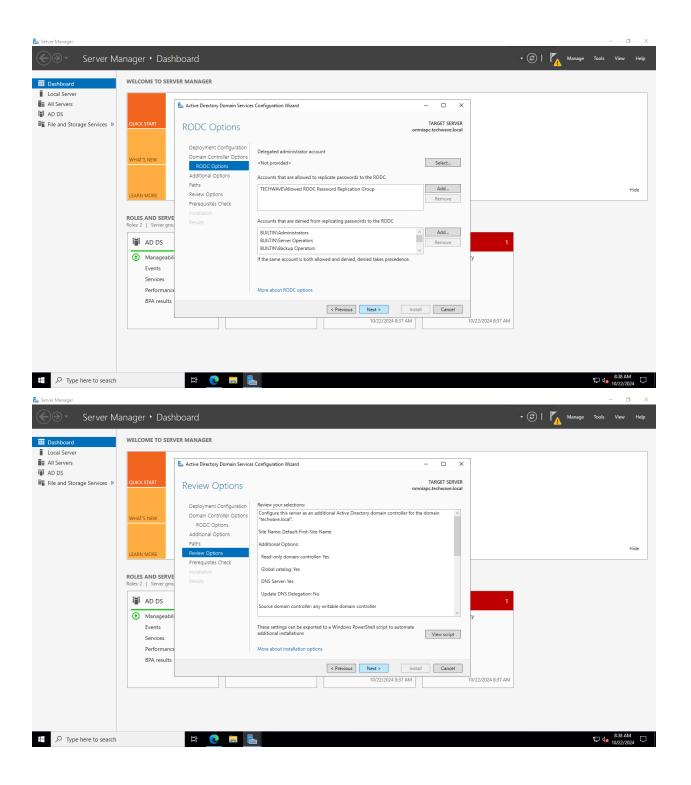
3. Promote the Server to Domain Controller

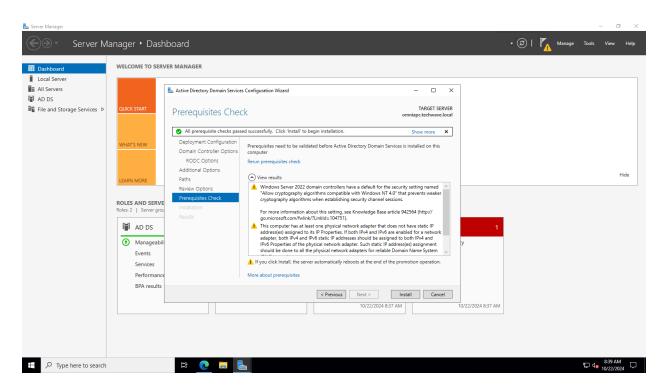
- In Server Manager, a notification will appear indicating that the AD DS role has been installed. Click on the notification flag and select **Promote this server to a domain** controller.
- 2. Choose the option Add a domain controller to an existing domain.
- 3. Enter the domain name techwave.local and provide credentials for a domain administrator.
- 4. Select the Domain Controller capabilities:
 - a. Check the boxes for the DNS server and Global Catalog as needed.
 - b. Choose the appropriate replication options.
- 5. Click Next.
- 6. Review the options you selected and click Next.
- After the validation is completed, click Install to begin the promotion process.
- 8. The server will automatically restart once the promotion is complete.

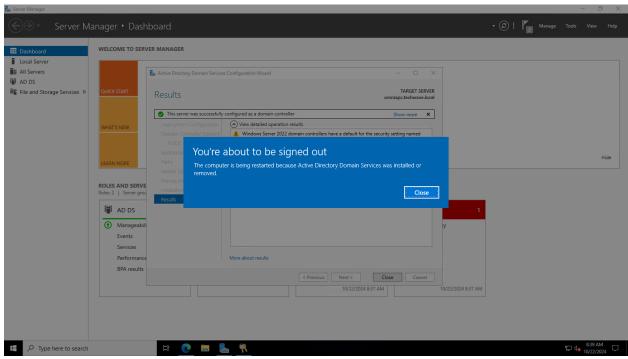


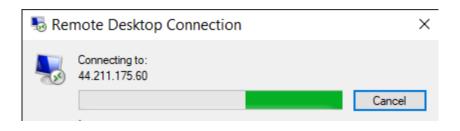






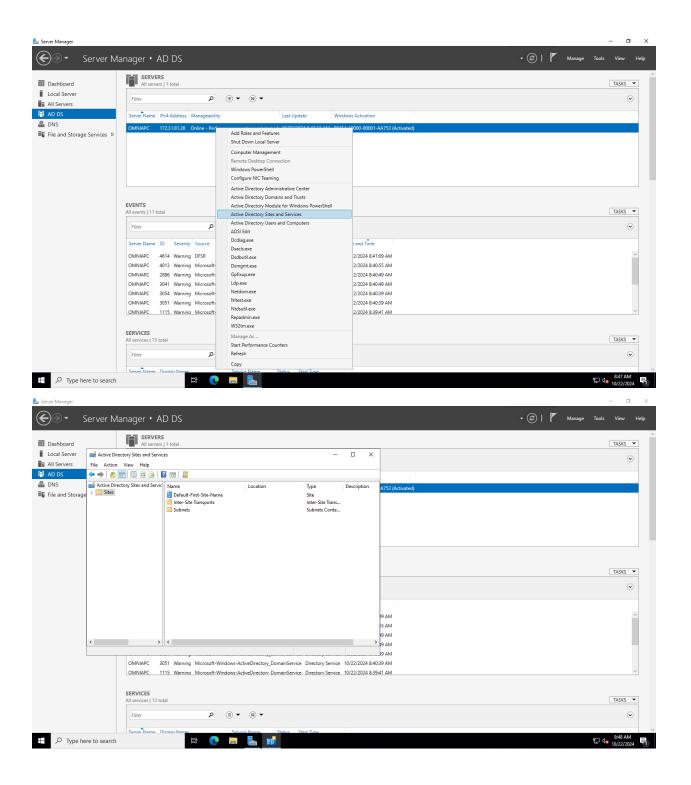


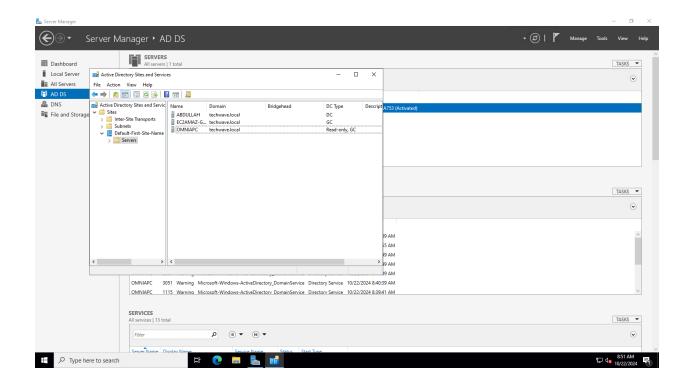




Step 10: Verify the Installation and Replication

From windows powershell





Run the following command to check the replication status:

```
Administrator: Windows PowerShell
                                                                                                                    ×
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\Administrator.TECHWAVE> repadmin /replsummary
Replication Summary Start Time: 2024-10-22 08:56:05
Beginning data collection for replication summary, this may take awhile:
                    largest delta
                                     fails/total %%
Source DSA
 ABDULLAH
                           10m:20s
                                      0 / 10
0 / 10
 EC2AMAZ-G8GIFA5
                           10m:30s
Destination DSA
                    largest delta
                                      fails/total %%
                           10m:30s
 EC2AMAZ-G8GIFA5
                           10m:20s
 OMNIAPO
                               :155
                                            10
```

Conclusion

By following the steps outlined in this document, Active Directory Domain Services have been successfully installed, and the server has been promoted to a domain controller within the existing domain (techwave.local). The replication status can be verified using the repadmin /replsummary command.