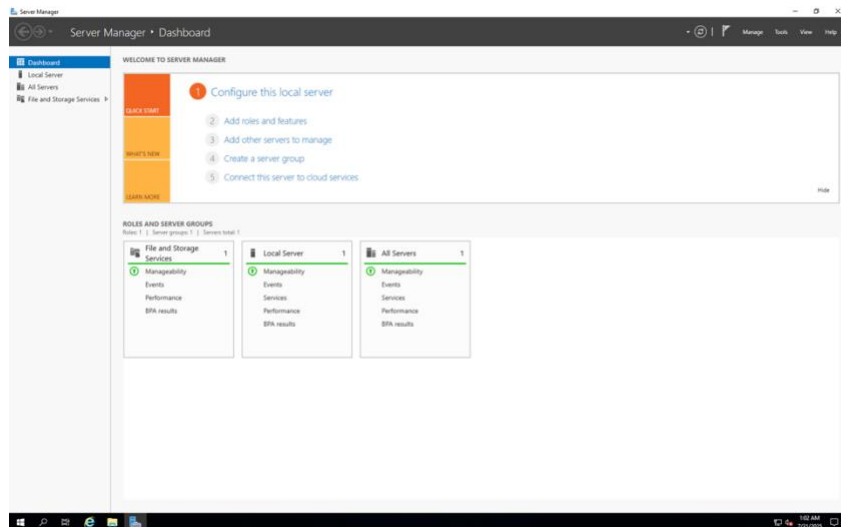# Setting up AD Server & Onboarding New User account.

Below is a step-by-step breakdown that follows the screenshot(s) captured during the setup process: (Azure VM Server 2019 *AD DS* , and Azure VM Windows 10 2019 *Client*
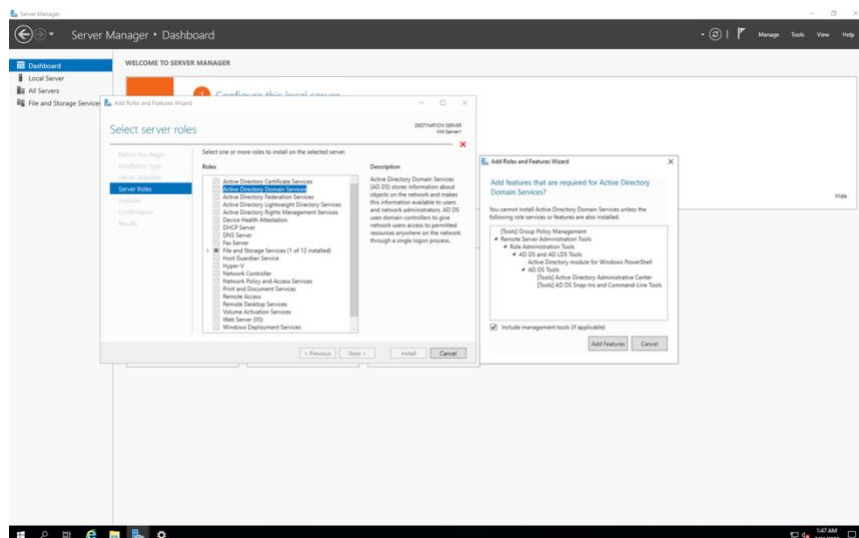
1. **Open Server Manager on the VM Server**
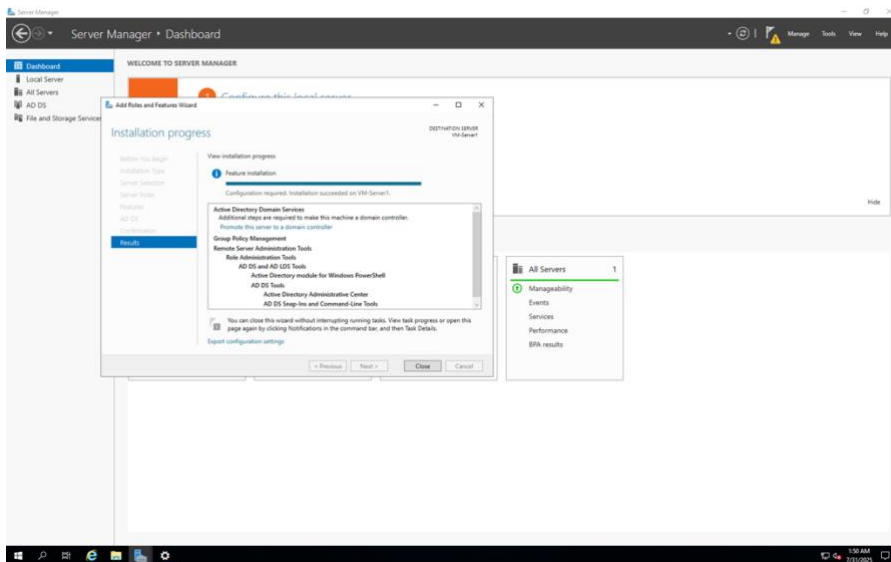   o Launch Server Manager from the taskbar or Start menu.

2. **Add Roles and Features**
   o Navigate to `Manage > Add Roles and Features.`
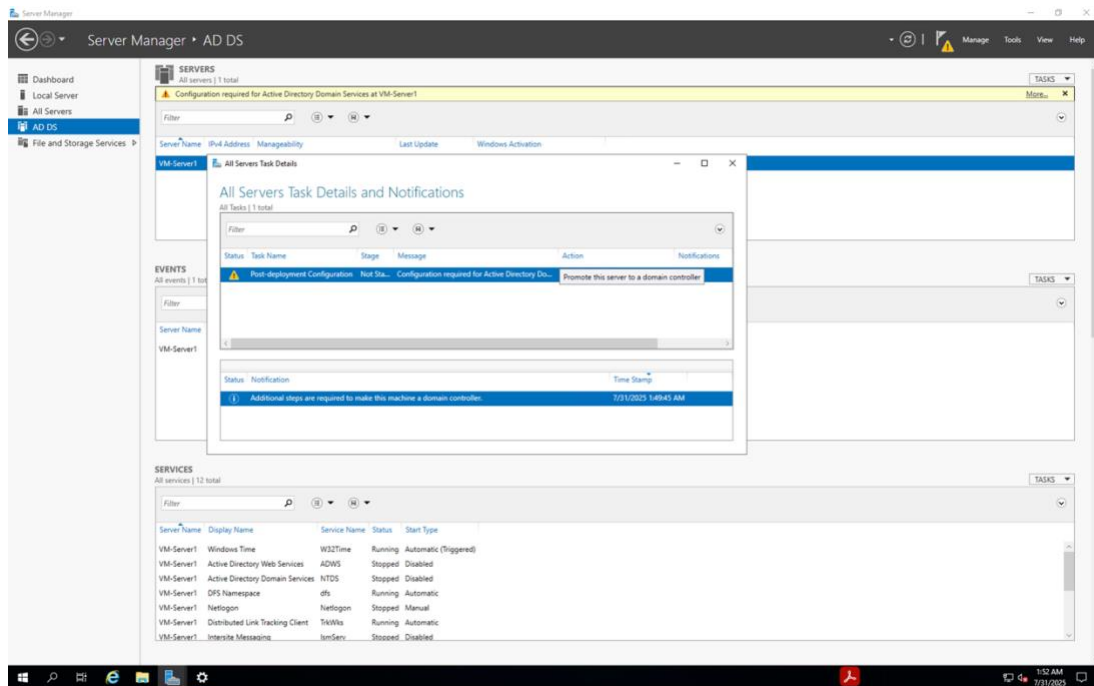   o Select **Active Directory Domain Services** to begin the setup.

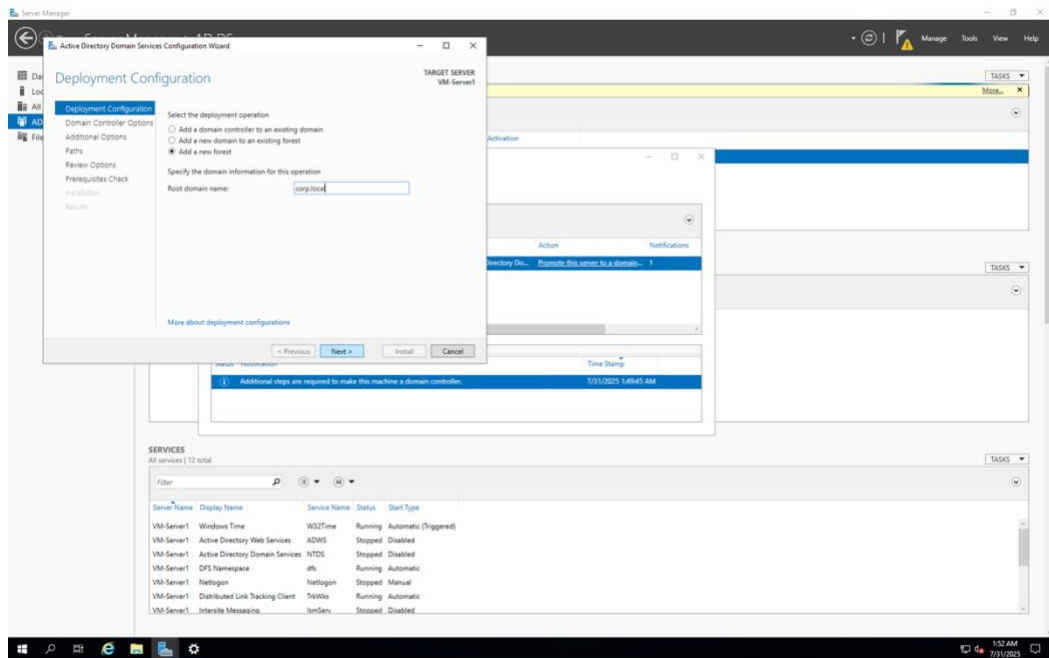3. **Promote Server to a Domain Controller**
   o   After installation, click the **flag icon** in Server Manager.

   o   Choose **Promote this server to a domain controller**.
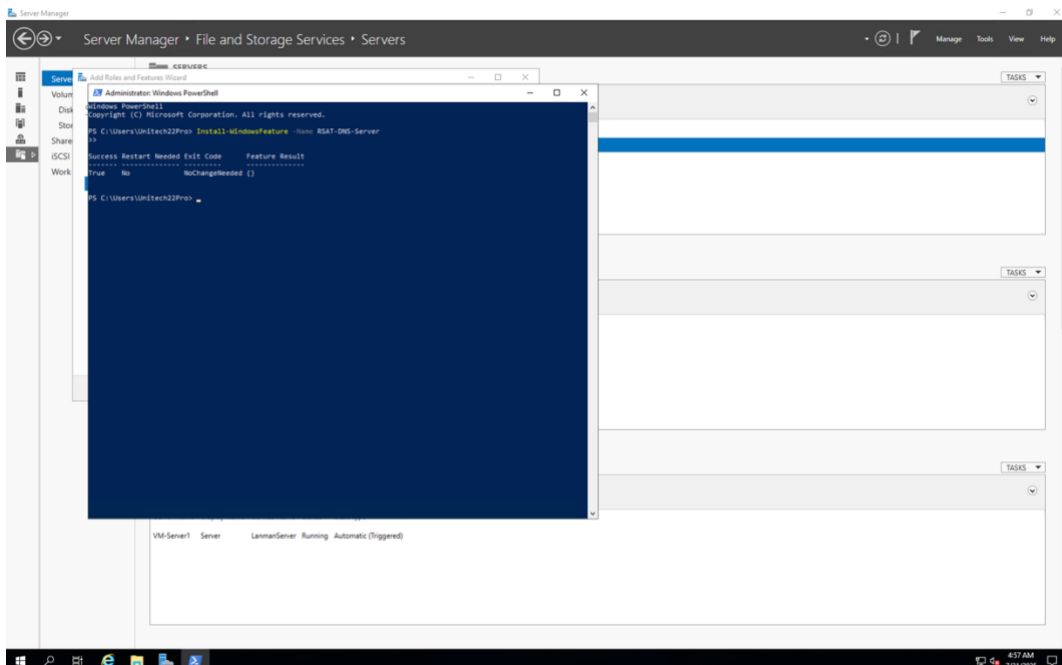
- o Select **Add a new forest**, and enter
  (YOUR_PREFERRED_DOMAIN) ***example corp.local

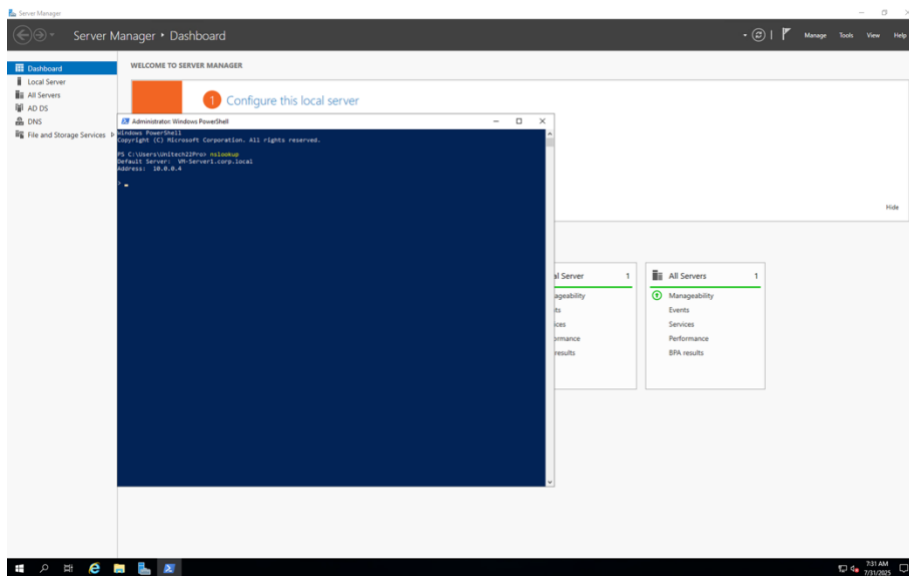*Once complete. Open Powershell or CMD line.

4. **Install RSAT: DNS Server Tools**
   - o Via PowerShell or Server Manager, install using:
   - o `Install-WindowsFeature RSAT-DNS-Server`

5. **DNS Verification via nslookup**
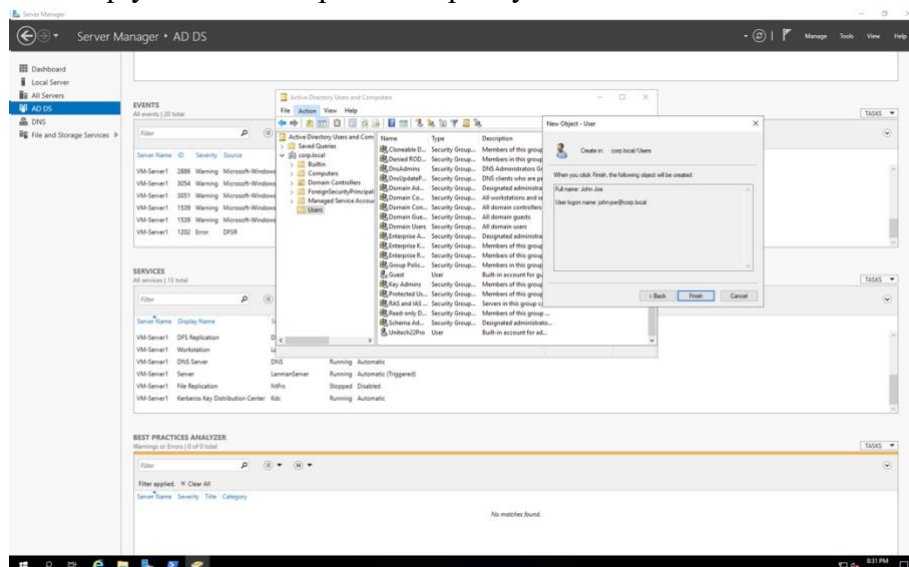   o On the DC, run:
    o `nslookup`
    o `(YOUR_DC_SERVER_ADDRESS)` should return as the Default Server address.

6. **Create New User in Active Directory**
    o Open **Active Directory Users and Computers (ADUC)**.
    o Right-click your domain > New > User.
    o Complete user creation and assign password. (Strong Passwords only, must comply with current password policy**

7. **Create VM Client + Client VM Connectivity Verification**

o Make sure the client VM is in the **same virtual network and subnet**.
o On the Windows 10 client: Ensure the DNS is manually set
   to `(YOUR_DC_SERVER_ADDRESS)`

Configure DNS on Windows 10 Client

-Open Network Settings

o Right-click the **Network icon** in the taskbar.
o Click **Open Network & Internet settings**.

-Open Adapter Options

o Scroll down and click **Change adapter options**.

-Modify Adapter Settings

o Right-click the active network connection (typically "Ethernet").
o Choose **Properties**.

-Configure IPv4 DNS

o Scroll and select **Internet Protocol Version 4 (TCP/IPv4)**.
o Click **Properties**.
o Select **Use the following DNS server addresses**:
   ▪ **Preferred DNS server**: (YOUR_DC_SERVER_ADDRESS)
   ▪ Leave alternate DNS blank or add a secondary if available.

-Apply Changes

o Click **OK** to close each dialog.
o Restart the adapter (disable/enable) or restart the VM if needed.

8. **Network Check**
    o Run:
    o `ping (YOUR_DC_SERVER_ADDRESS)`
    o `nslookup (YOUR_DOMAIN)`
    o Confirm the domain resolves and DC responds.