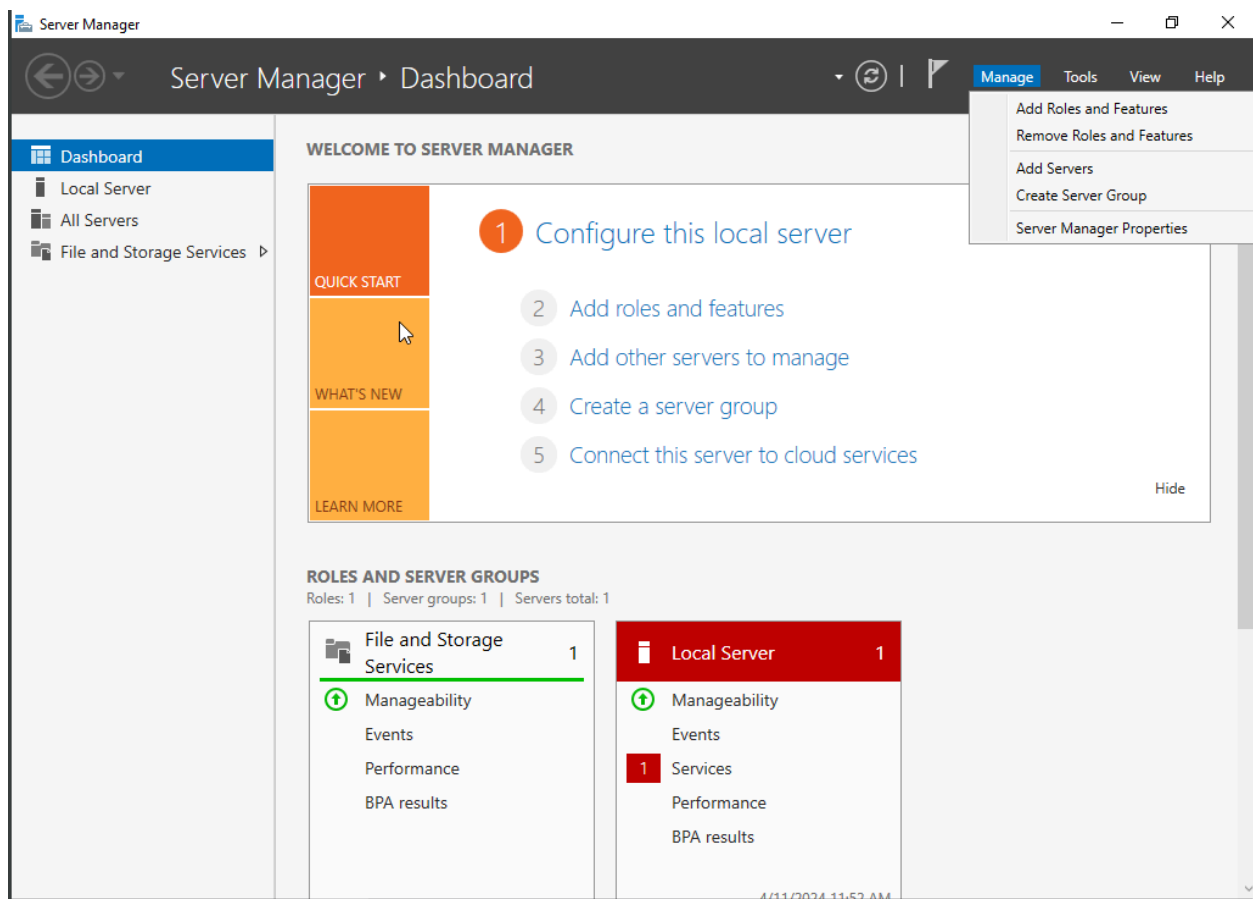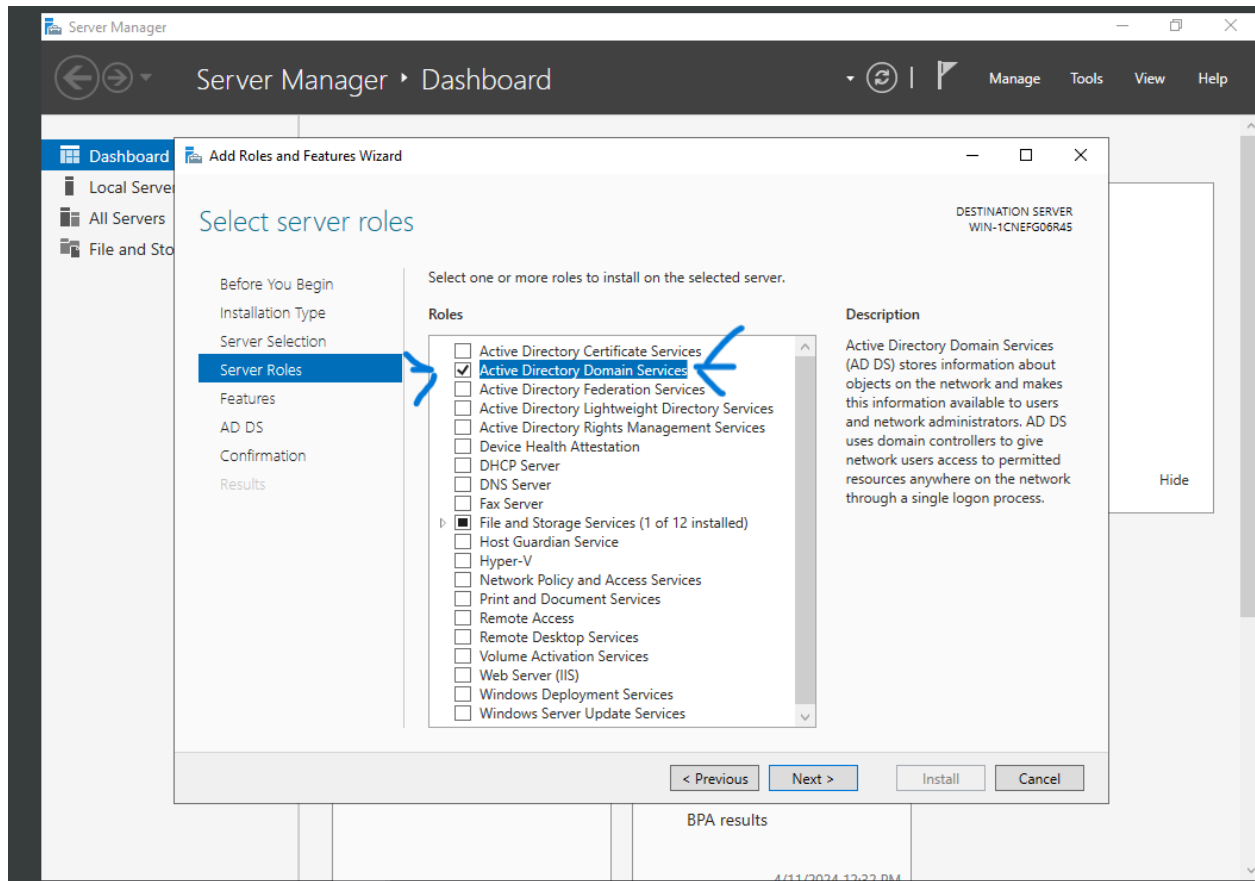# Active Directory Lab

In this lab I installed Active Directory using windows server 19 within a Virtual Machine using VirtualBox. The goal was to create an Organizational Unit (OU) and create users and groups to show some common ways Active Directory may be used in the workspace.
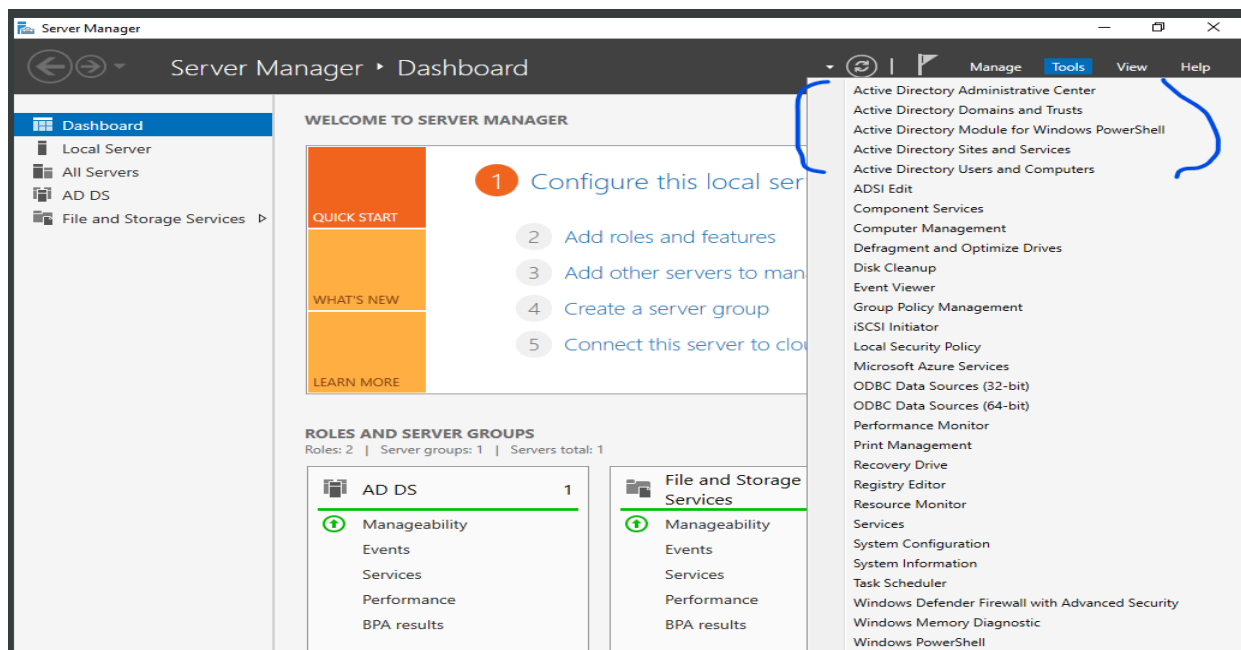
The first task after installing windows server inside virtualbox was to add roles and features to have active directory configured in Server Manager.
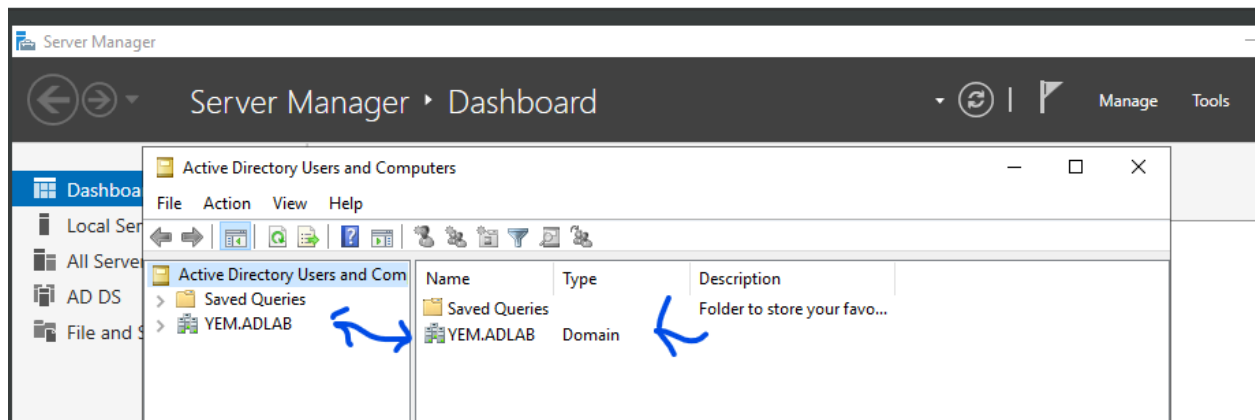

The next step within the installation was to add Active Directory Domain Services
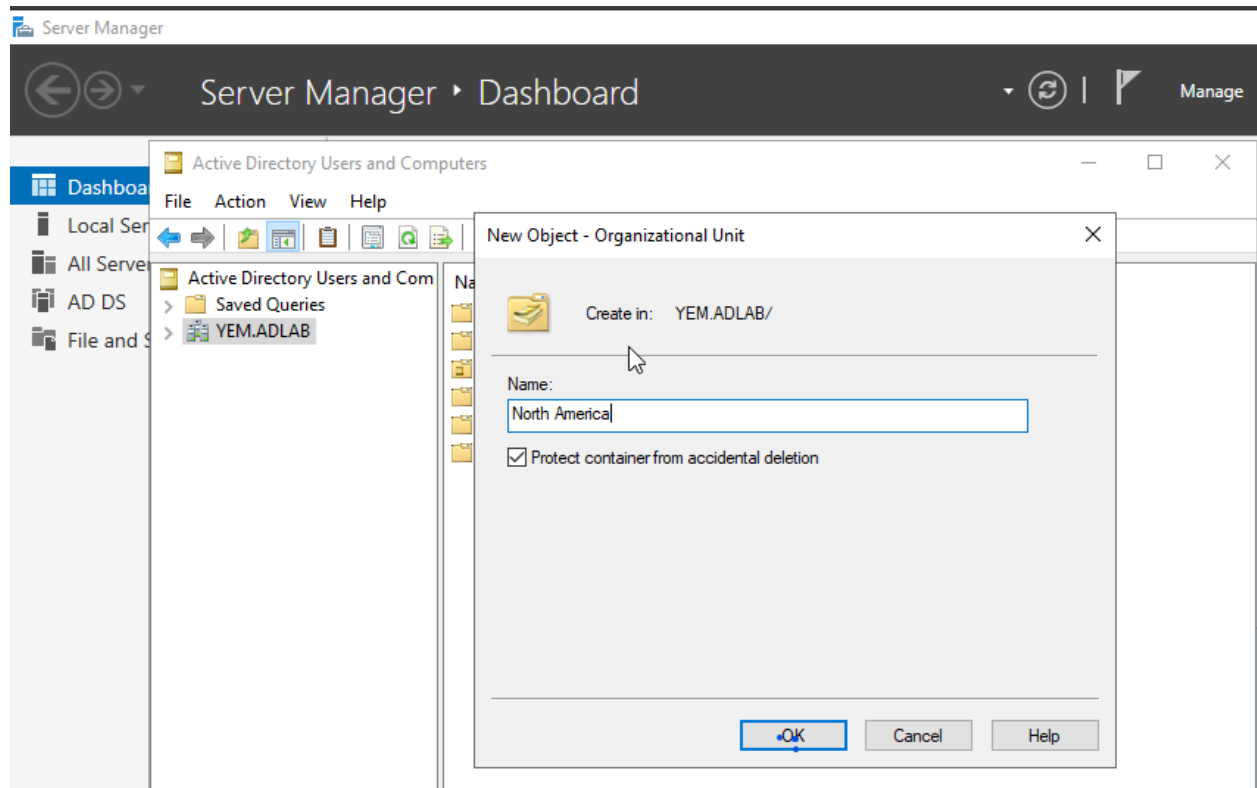
Successfully installed Active Directory into the Server Manager, now Active Directory tools can be applied as needed.
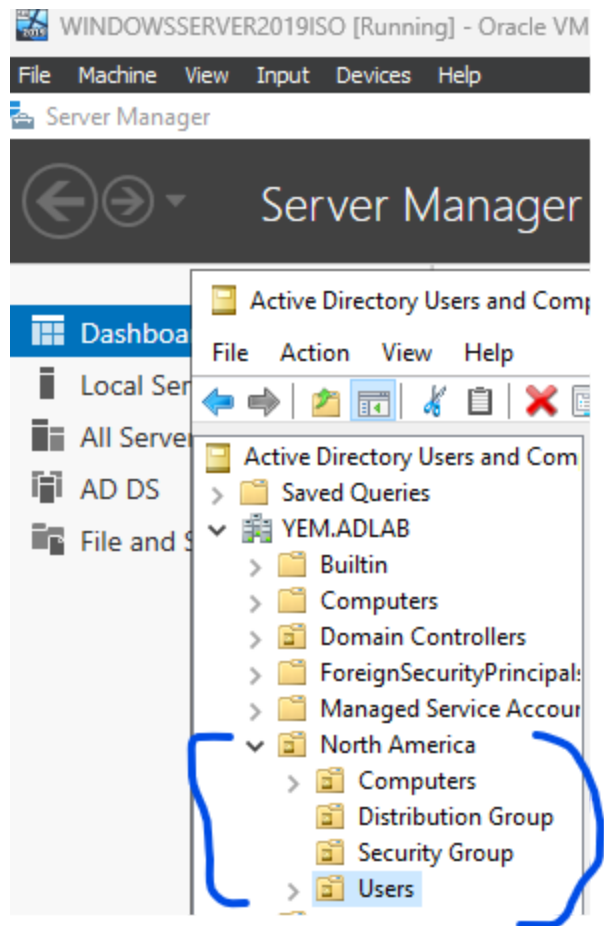
Domain Controller created YEM.ADLAB assigned

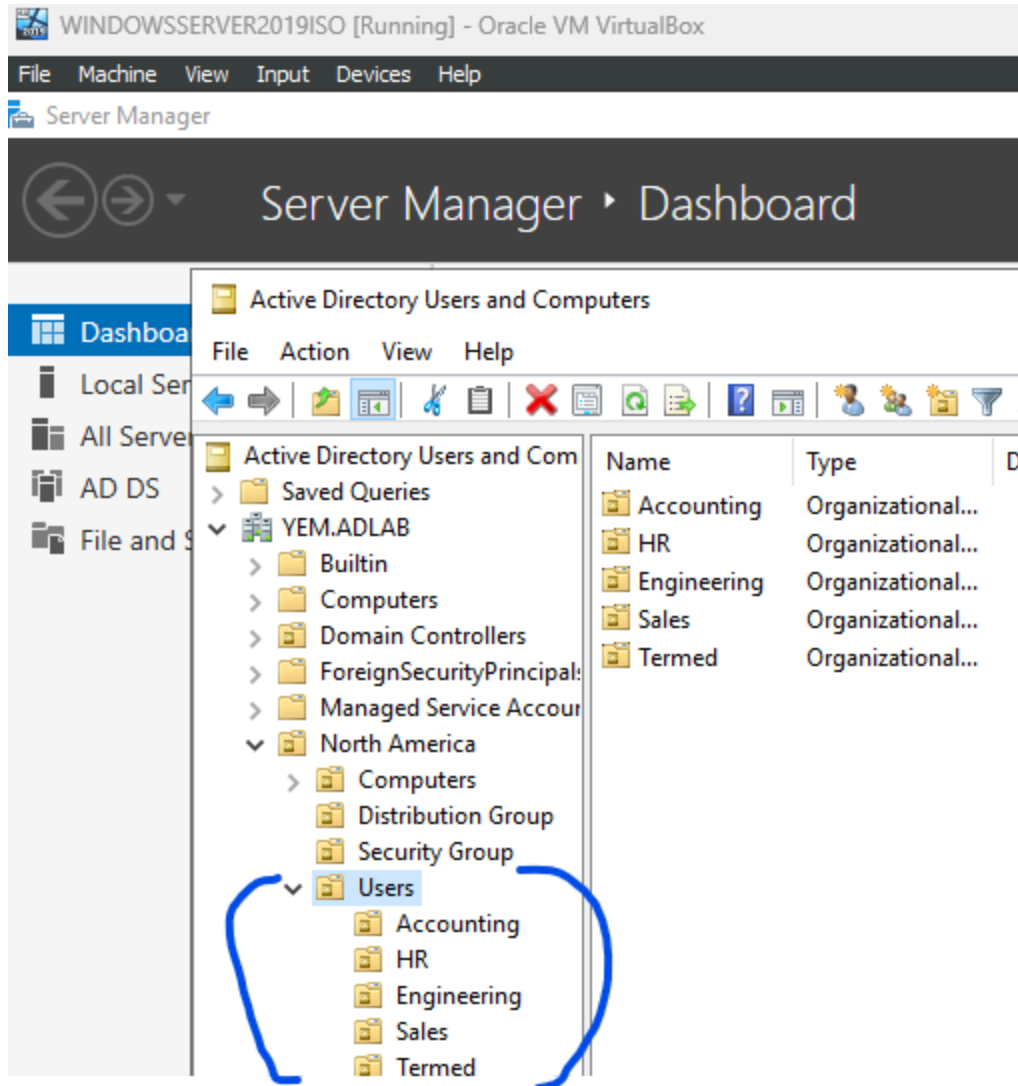
The following step was to create OU "Organizational Units.OU classifies users and groups that are contained inside of Active Directory. This OU's was named North America.
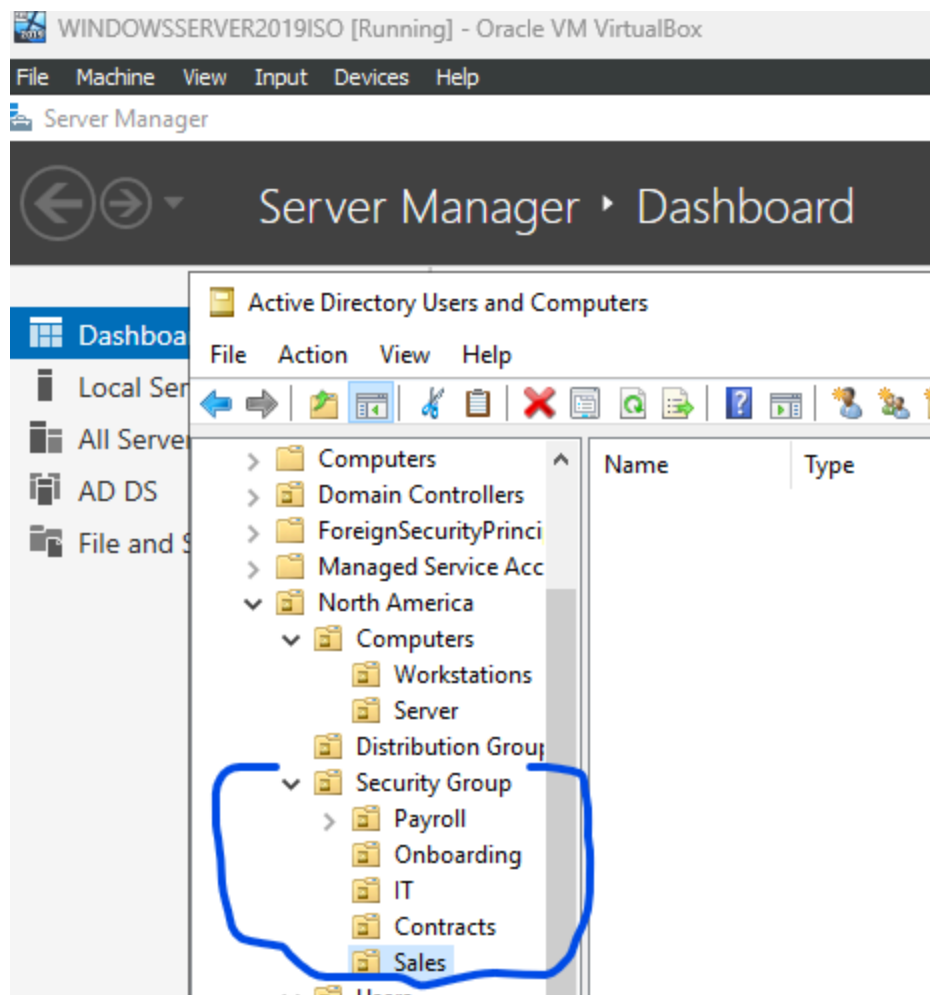
The next step I was able to create four additional OU "Organizational Units"

Distribution Group, Computers, Users and Security Group
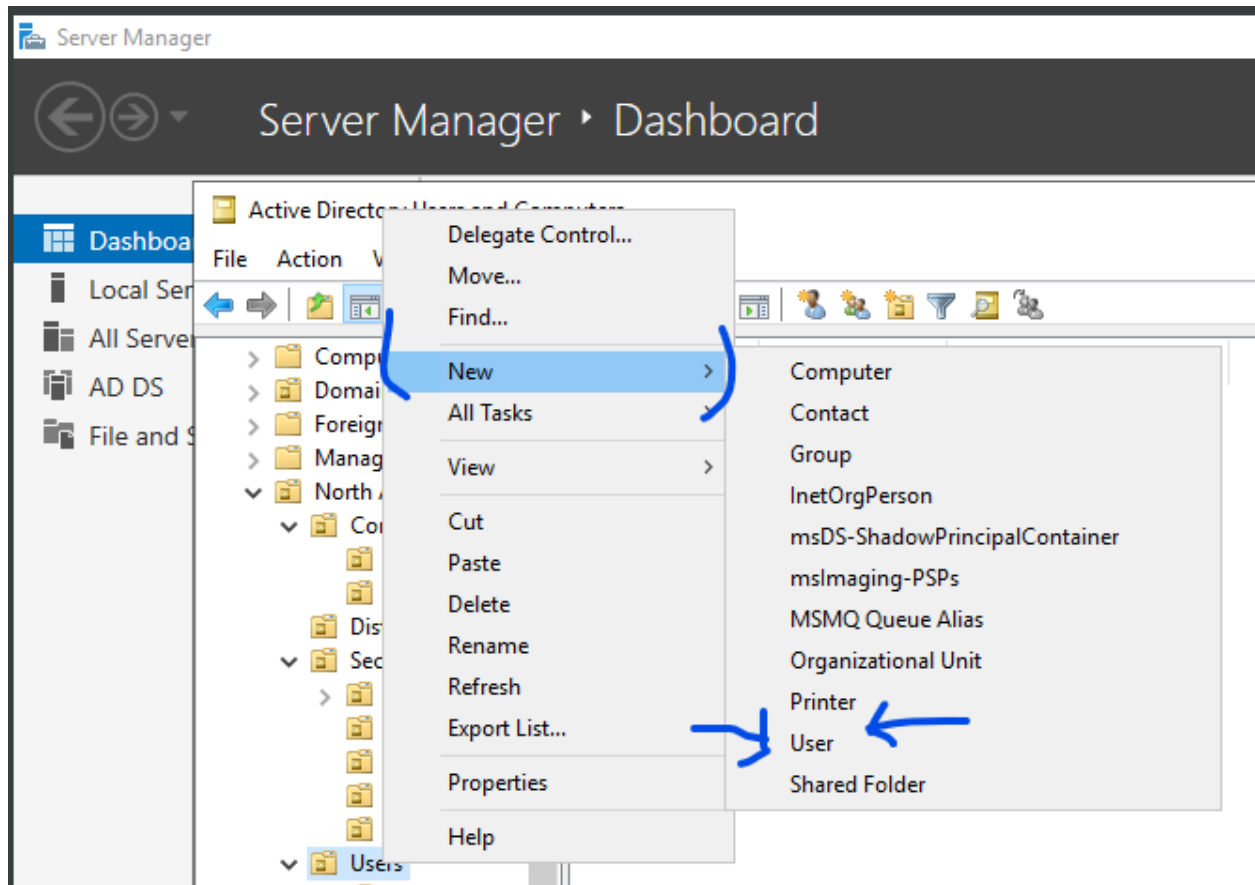
Next the step was creating additional Organizational Units within the users directory the OU's created was: Accounting, HR, Sales, Engineering, and Termed for the users that are no longer with the company.

The following task was create more Organizational Units within the OU of Security Group I added payroll, IT, contracts, sales, and onboarding:

Next task was to manually add new user

Server Manager

Server Manager › Dashboard

Dashboard
Local Ser
All Server
AD DS
File and S

Active Directory Users and Computers

File   Action   V

Delegate Control...
Move...
Find...

New   ›
All Tasks   ›

View   ›

Cut
Paste
Delete
Rename
Refresh
Export List...

Properties

Help

Comp
Domai
Foreign
Manag
North
Co
Dist
Sec

Users

Computer
Contact
Group
InetOrgPerson
msDS-ShadowPrincipalContainer
msImaging-PSPs
MSMQ Queue Alias
Organizational Unit
Printer
User
Shared Folder

New Object - User   ×

Create in: YEM.ADLAB/North America/Users

First name: Yem   Initials:

Last name: Fad

Full name: Yem Fad

User logon name:

Fadyem   @YEM.ADLAB   ∨

User logon name (pre-Windows 2000):

YEM\   Fadyem

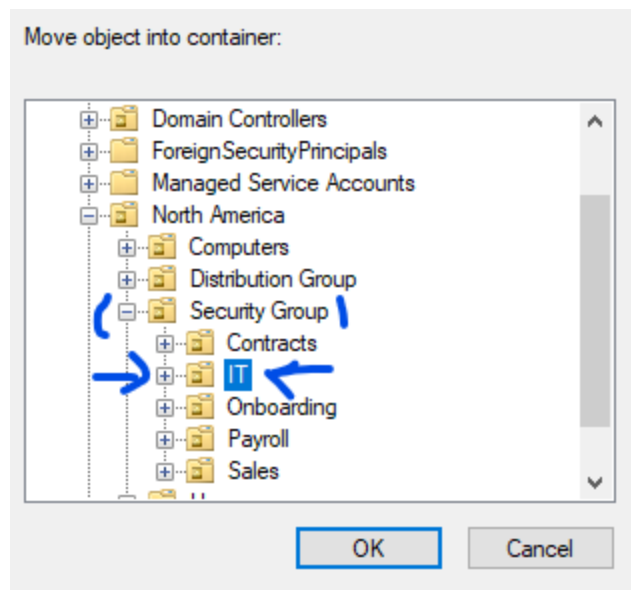< Back   Next >   Cancel
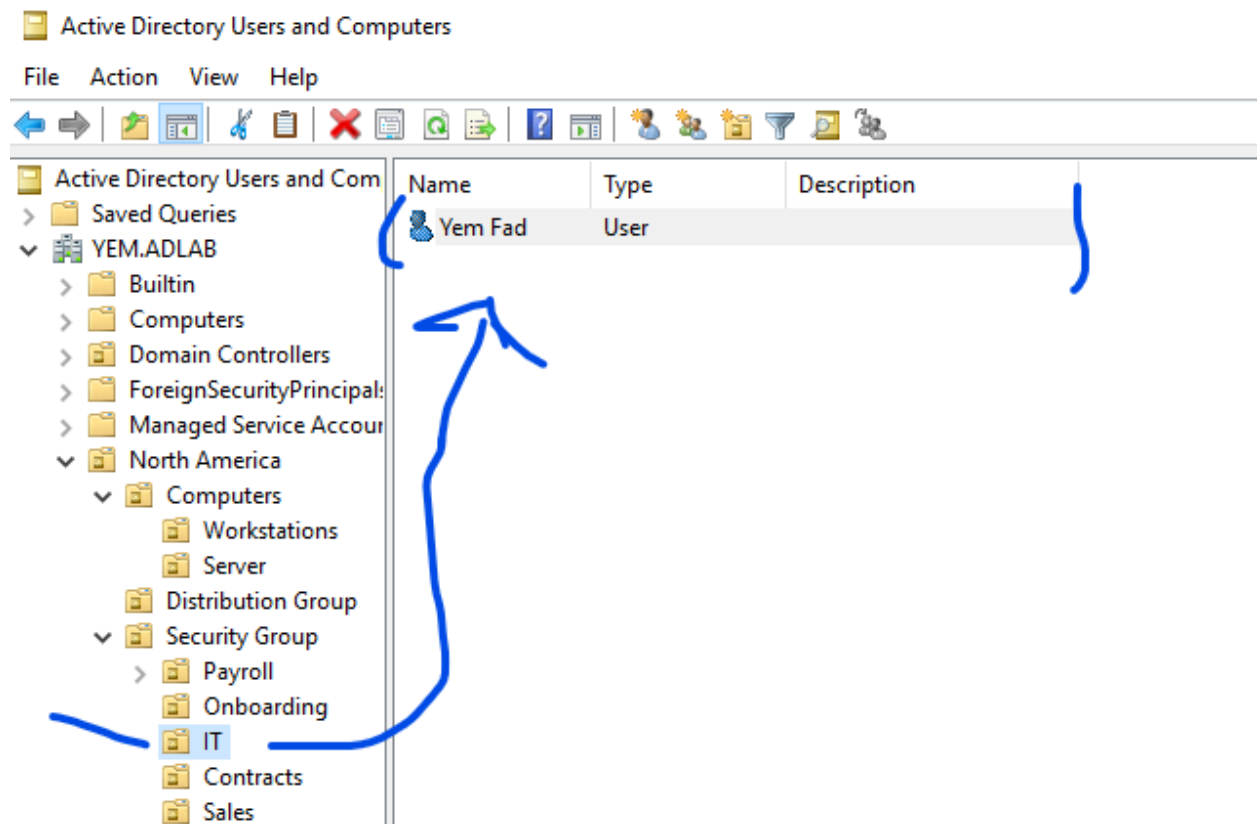
New user added inside of Active Directory:
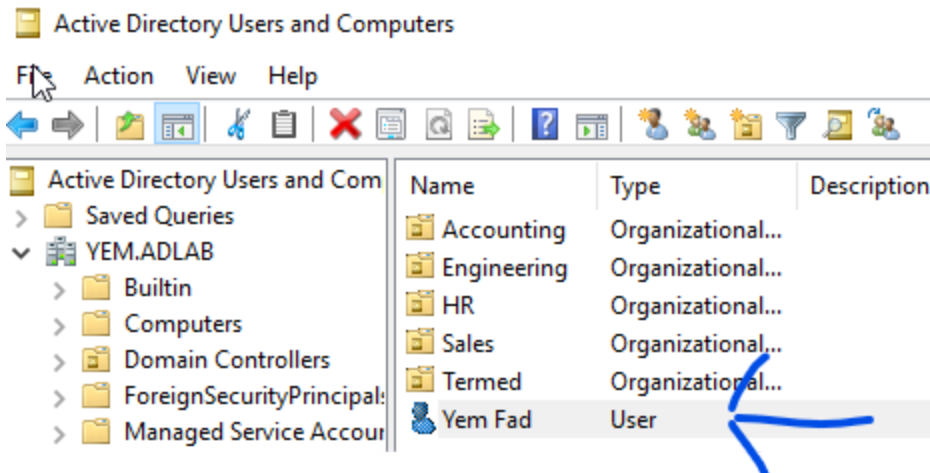
Next I showed how to move a user to the preferred OU in Active Directory
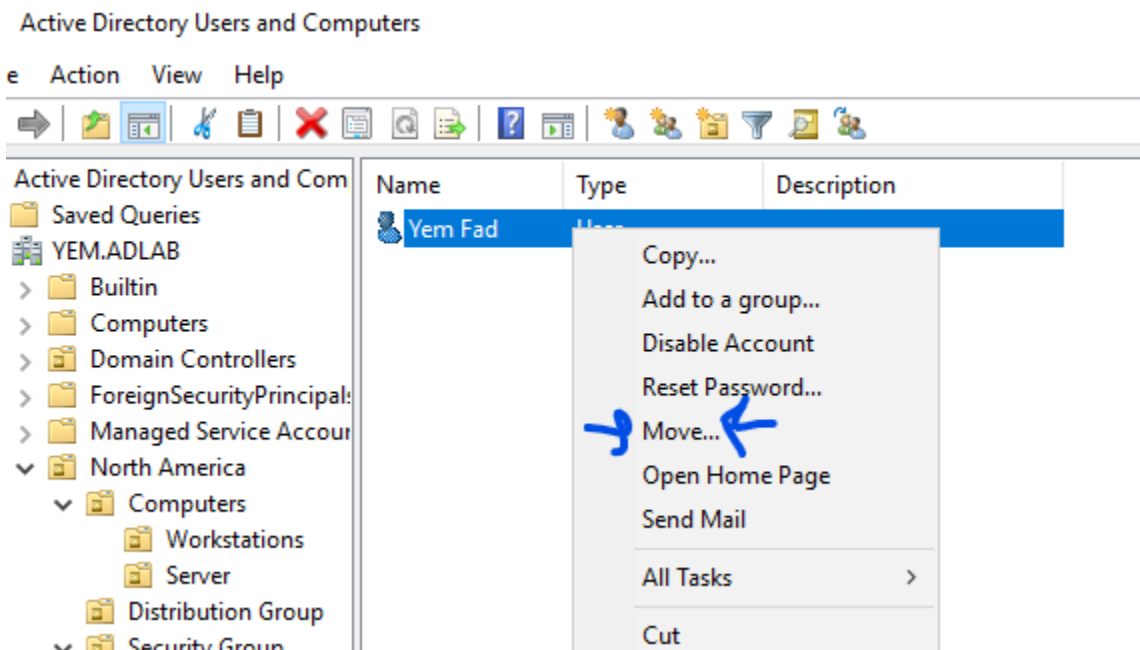
This user was moved to the OU "Security group" and more specifically the "IT" Organizational Unit within the Security Group OU

Now the user selected has been moved to the desired OU

Next was differentiating the two groups Distribution group which is meant for notifications for individuals in that particular department to get the notification

that's needed for that location or department. The other group is the Security Group which is delegated to the particular department that would grant them the rights and privileges desired by the administrator.

So for this example within the Security Group and "onboarding" OU I created a new group named New Hire
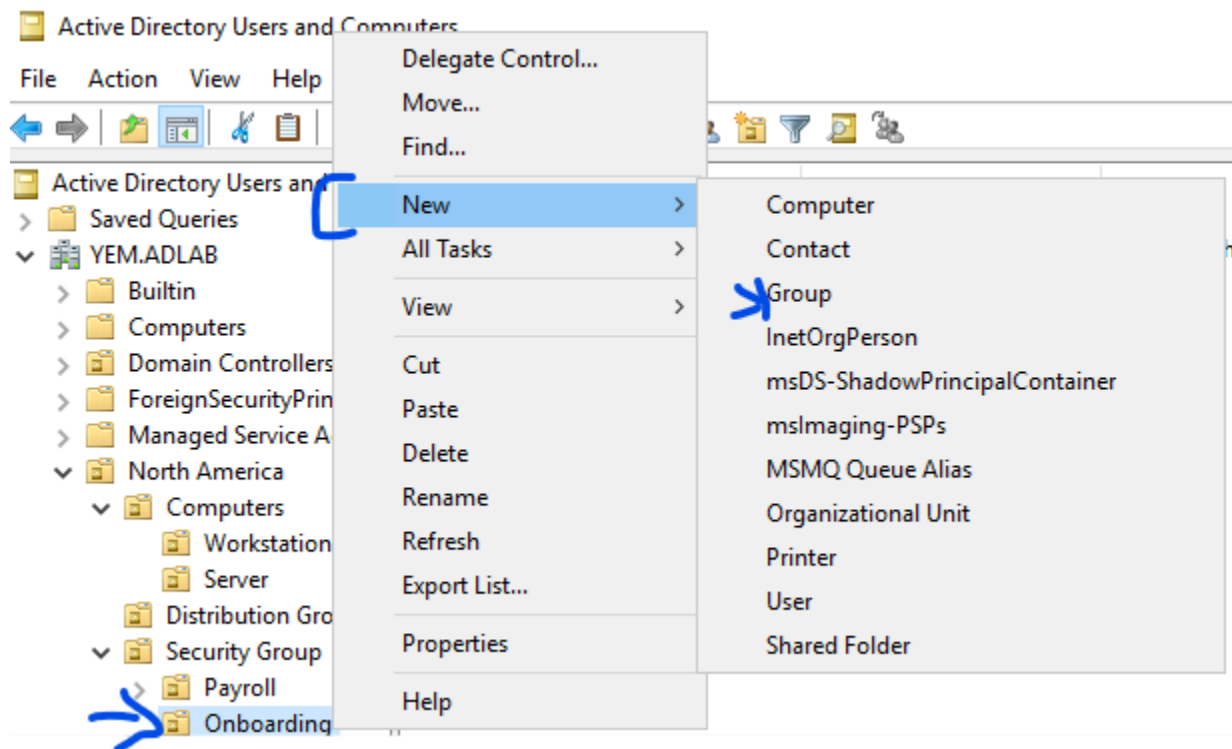
New Object - Group   ✕

Create in: YEM.ADLAB/North America/Security Group/Onboarding

Group name:

New Hire

Group name (pre-Windows 2000):

New Hire

Group scope
- ○ Domain local
- ⦿ Global
- ○ Universal

Group type
- ⦿ Security
- ○ Distribution

OK   Cancel

Contracts

Active Directory Users and Computers

File   Action   View   Help

| Name	Type	Description
New Hire	Security Group...	

- Active Directory Users and Com
  - Saved Queries
  - ✓ YEM.ADLAB
    - Builtin
    - Computers
    - Domain Controllers
    - ForeignSecurityPrincipal:
    - Managed Service Accour
    - ✓ North America
      - ✓ Computers
        - Workstations
        - Server
      - Distribution Group
      - ✓ Security Group
        - Payroll
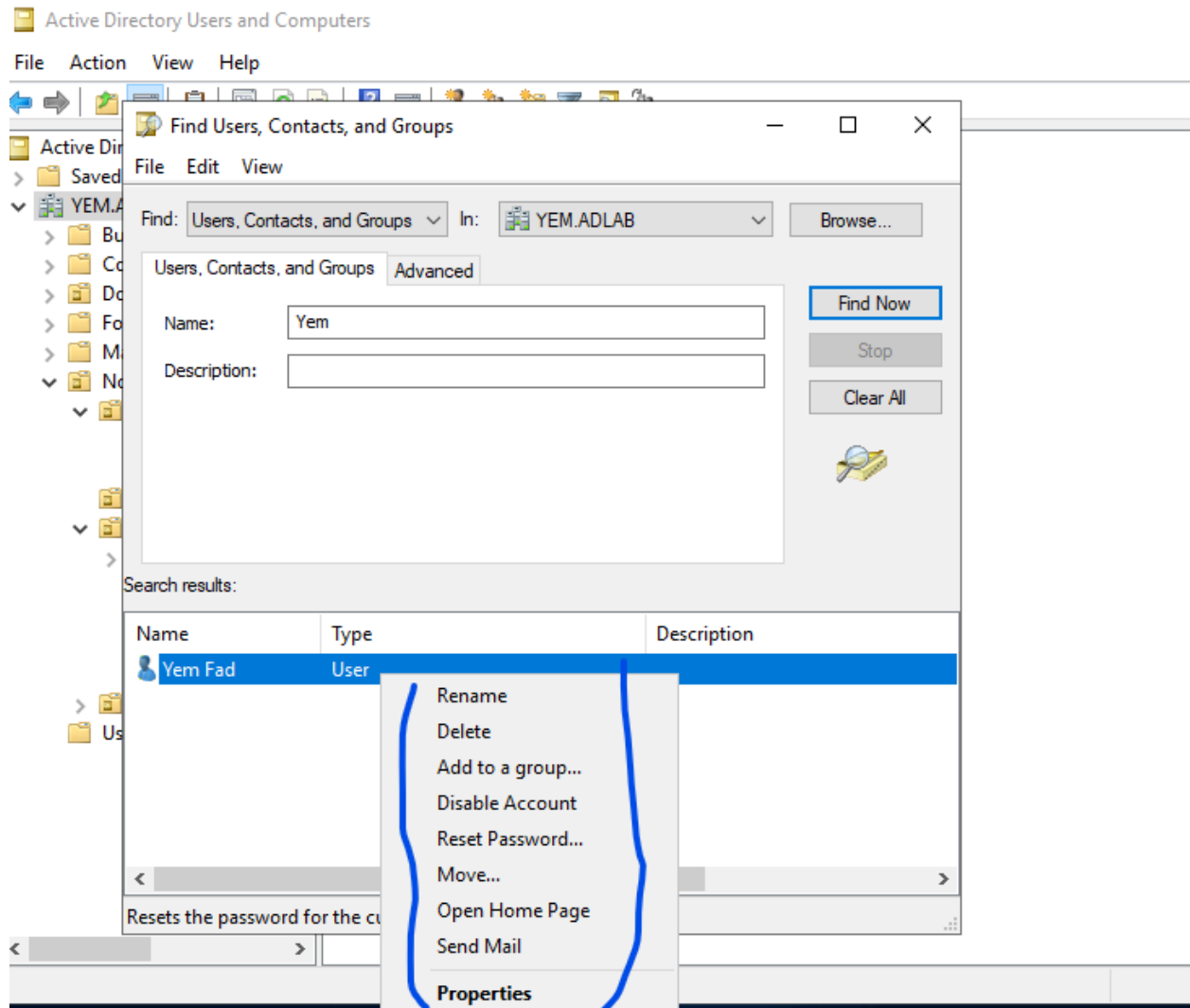   - Onboarding
        - IT

Next task was to show how to find whatever you're looking for in your filter window whether users groups and contacts, computers, printers, shared folders and more:
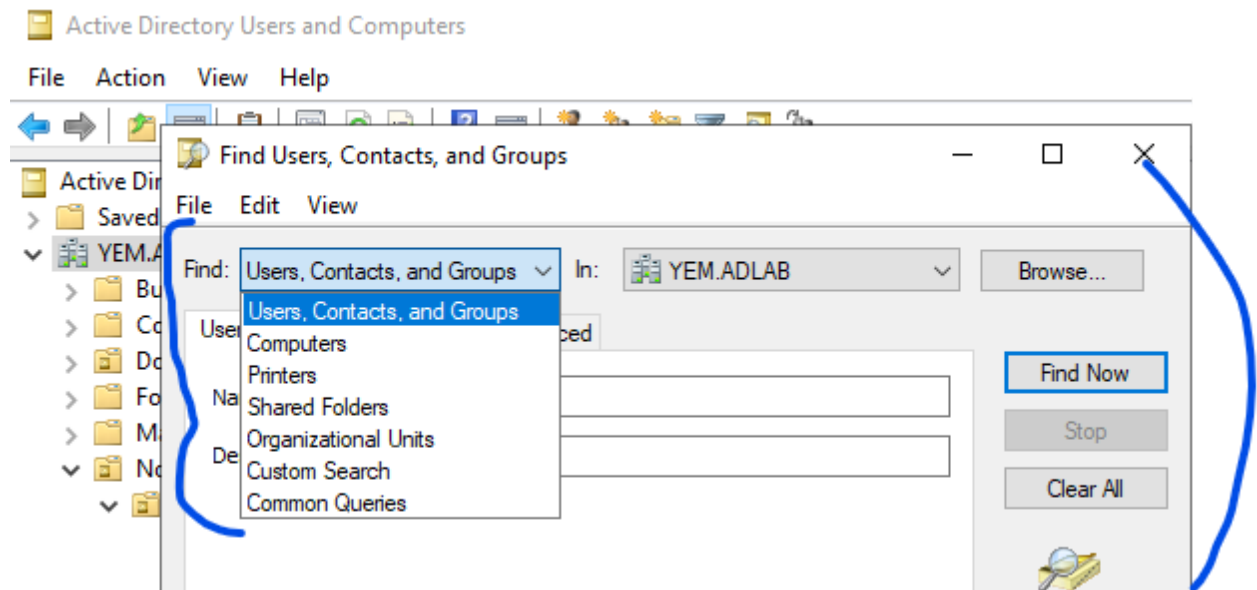

This search shows the user that's currently in the search field and Active Directory finding the user.
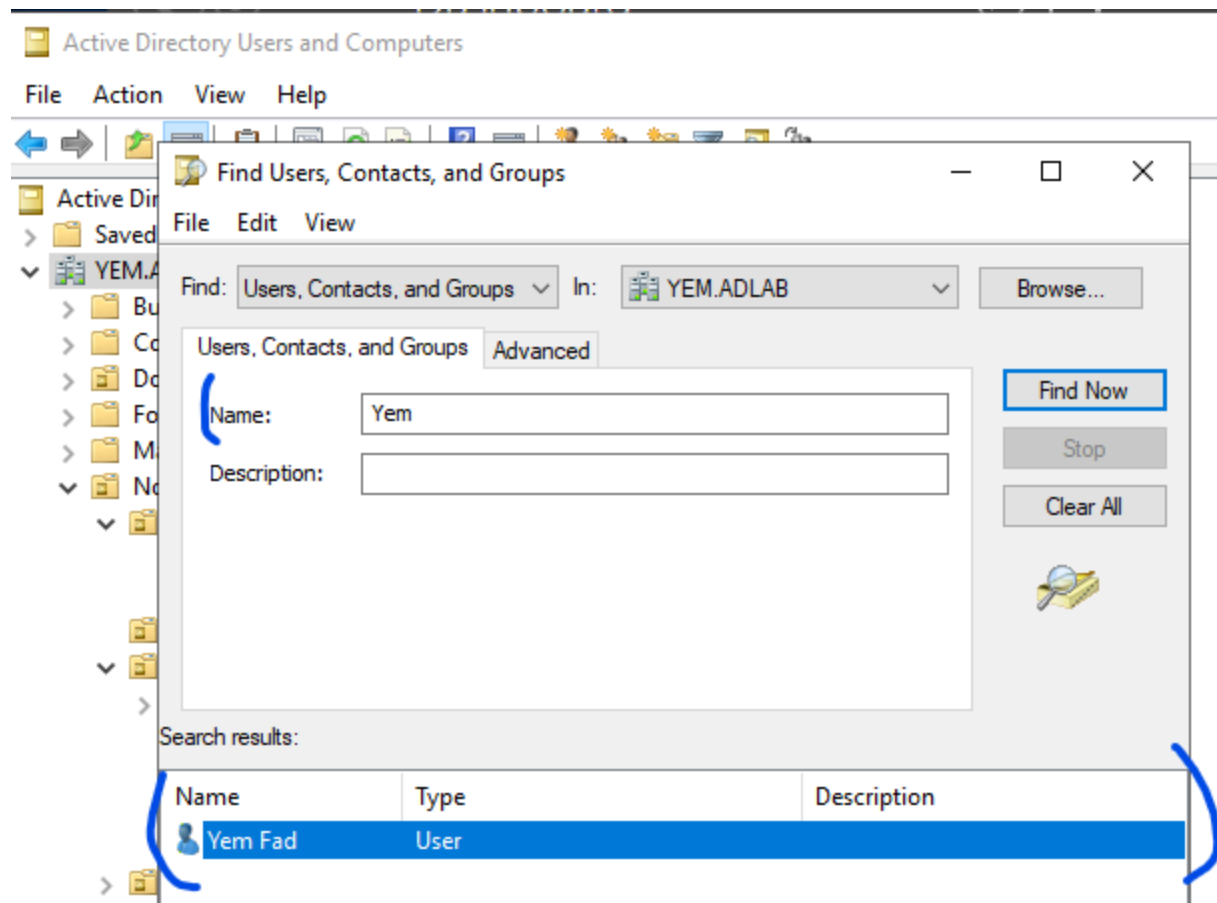
After I have found the user I determine the desired action im looking to execute

One of the most issues to troubleshoot is resetting password to reset the users password you locate the individual and configure the desired action of resetting the users password and check inside the box to unlock the account which can commonly happen as well:
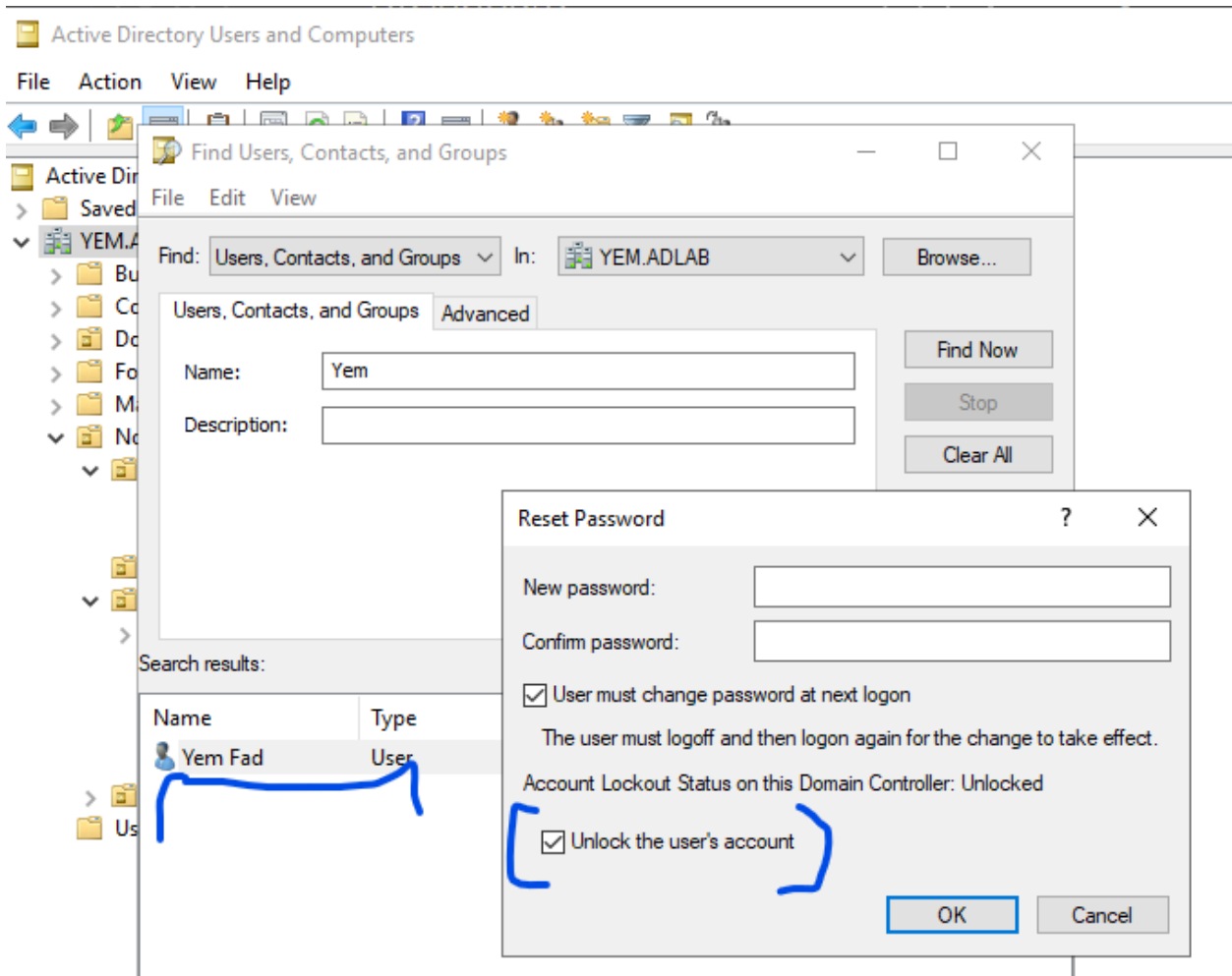
In this Active Directory Lab as the administrator I assigned OU, users and groups, showed how to find the user or device thats in the Active Directory database. Also displayed how to reset a users password which is one of the more common issues needed to be fixed. Active Directory is a fun and extremely helpful tool to use and to troubleshoot, fix or find information for your organization.