

Setup Active Directory Steps

☐ **Step 1** | Download [Virtual Box](#) or [VMWare](#)

☐ **Step 2** | Download [Windows Server 2022](#)

☐ **Step 3** | Set up Server 2022 VM first (configure based on your computer hardware specs)

- On the set up page, make sure to select the **Desktop version** (aka GUI version) of Windows Server 2022, if not you will be using a command line interface

☐ **Step 4** | Install Active Directory: Open **Server Manager** and click on **Manage** →

Add Roles and Features

- Keep clicking next until you get to **Server Selection** and then near the top select **Active Directory Domain Services** (also select **Remote Access** and **Group Policy Management** or any features you'd find useful)
- Keep clicking next until you can select **Install** (takes several minutes), then under the **Results** page click on **Promote this server to a domain controller**. Then select add a new forest and name it whatever you want, just make sure it has

.local at the end (i.e *owane.local*). Next create a password and click through to install.

- Once installed reset system

☐ **Step 5** | Now that everything is installed open the search bar and look for

Windows Administrative Tools → Active Directory Users and Computers

- now we will create **OU (Organizational Units)** for different departments in our “organization” (i.e HR, Sales, etc.)

☐ **Step 6** | Create geographical OUs for different countries (**USA, France, Japan**):

Open **Active Directory Users and Computers** → **owane.local (right-click)** →

New → **Organizational Unit** and type in the name of the OUs

☐ **Step 7** | Add another subsection of OUs (***Users, Computers and Servers***):

Select one of the geographical OUs we just created (i.e USA) then right click and you can add another OU under our geographical OU

☐ **Step 8** | Add Groups (IT, HR and Accounting): Select one of the OUs (i.e Users)

then right click and select **Group**

❑ **Step 9** | Create new Object/User: **User** (right click) → **Create User**

One Troubleshooting Issue and How I Resolved It

When I was configuring my hypervisor to run Windows Server 2022 on VMWare, I was unable to fully load up the VM because it kept getting stuck in the bootup page. Then I used Virtual Box and followed the same process but it would automatically choose the command line version of Windows Server when I needed the GUI. So I did a bit of research and found that I have to add the ISO image after configuring the VM initially and once it was ready the start then I would have to go into the settings and add the ISO image. Once I did that, I was allowed to proceed and I was also able to select the Desktop Experience version (GUI).