

Installing Active Directory on Windows Server on a Virtual machine (Home Lab)

- I. Installing Virtual Machine and setting up Windows Server
- 1. Download and Install VMware Workstation Pro from the link below. https://www.vmware.com/products/desktop-hypervisor.html
- 2. Download Windows Server 2022 free license from the link below. Fill up and register for free trial and Select English(United States) ISO downloads 64-bit edition. https://info.microsoft.com/ww-landing-windows-server-2022.html
- 3. Open VMware Workstation Pro and click on Create a New Virtual Machine
- 4. Select the option "I will install the operating system later" and click Next
- 5. Select Microsoft Windows under Guest Operating System and select the version Windows Server 2022 from the drop down box and click Next
- 6. Type in the name that you want for the virtual machine and click Next
- 7. Click **Next** for Specify Disk Capacity and click **customize Hardware**
- 8. Select New CD/DVD (SATA) and under Connection, select Use ISO image file and Browse to where you have saved the Windows Server ISO that was downloaded earlier and click close.
- 9. Click **Finish** and Virtual Machine should now be created.
- 10. Right click the virtual machine and click **Power ON**
- 11. Click on the virtual machine and press any button to load the Windows Server.
- 12. Click on **Next** when the Windows Setup window opens with the Language to Install
- 13. Click on **Install Now** button
- 14. On the Windows Setup button, Select the second option "Windows Server 2022 Standard Evaluation (Desktop Experience) and click Next
- 15. Check "I accept the license terms"
- 16. Select Custom: Install Windows only (advanced)
- 17. Click **next** on Drive Unallocated Space Window
- 18. Wait for the Server to finish installing
- 19. The Virtual Machine will restart on its own after installing and you can type in a password for Admin
- 20. Windows Server is now ready and you should be able to login with the password you provided

II. Installing Active Directory tools on the Windows Server

- 1. Log in to the Windows Server
- 2. Open Server Manager and on the top right, click on Manage
- 3. Select Add Roles and Features
- 4. Click **Next** on Before you begin window
- 5. Select Role-based or feature-based installation and click Next
- 6. Click **Next** for Server Selection
- 7. Select Active Directory Domain Services from the options and click on Add Features and
- 8. Keep clicking **Next** until you reach the confirmation page and click the **Install** button.
- 9. Wait for the Installation to finish and when it's finished, do not close the window yet
- 10. Click on Promote the server to a domain controller
- 11. Under Deployment Configuration window, select the Option Add a new forest and type in a name in the Root domain name textbox (e.g eastcharmer.local) and click Next
- 12. Type the admin password and click Next and Next until you reach Prerequisites Check Window
- 13. Once you see on top "All prerequisite checks passed successfully." click the Install button and wait for it to finish and the computer will restart
- 14. Log in to the Windows server and you will now see the new Domain name we created and that means that Active Directory and Domain was successfully installed