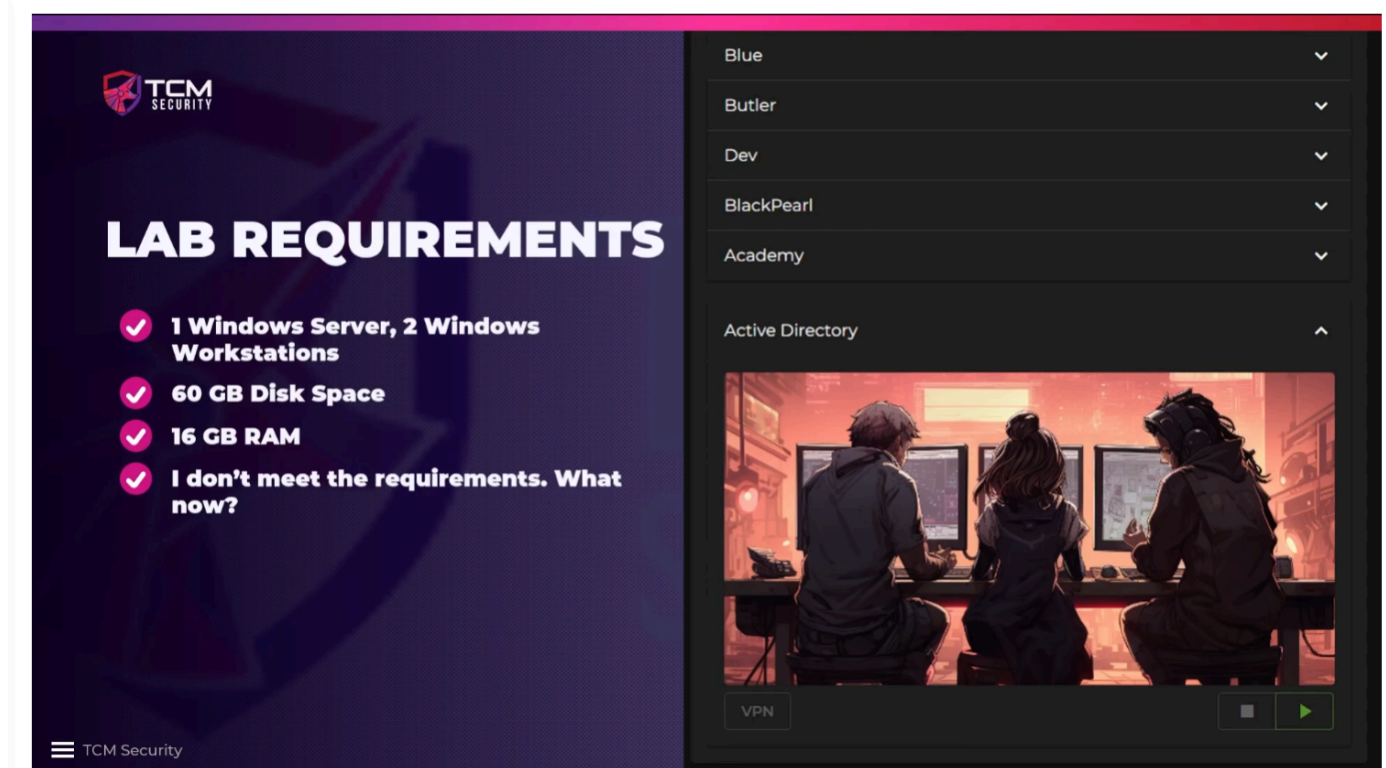# Setting Up the Domain Controller

So, we are going to set up a windows server with 2 windows workstations.

We are going to download from "https://www.microsoft.com/en-us/evalcenter".

One "Windows 10 Enterprise", and one "Windows Server 2022".

Go to the website, and download it.

Then, we are going to start with the Windows Server 2022, which is going to be our Domain Controller.

1 - Setting Up Domain Controller

We are going to create New Virtual Machine. Pick the ".iso" file for the Windows Server. Then, if it is not booting, or if you are getting a error message saying there is no Microsoft key set, or something about key, maybe there is a floppy driver created together with the virtual machine. Just get in the virtual machine settings and delete/remove the floppy disk.

We are going to install the standard version with desktop features.

Select the custom installation. Select the one partition shown, click new, and then click apply.

Let it install. Then, we are going to create password for administrator account. We are going to use weak password : "P@$$w0rd!".

We can then log in to the administrator account, and install VMware tools, so we can make it bigger and see better.
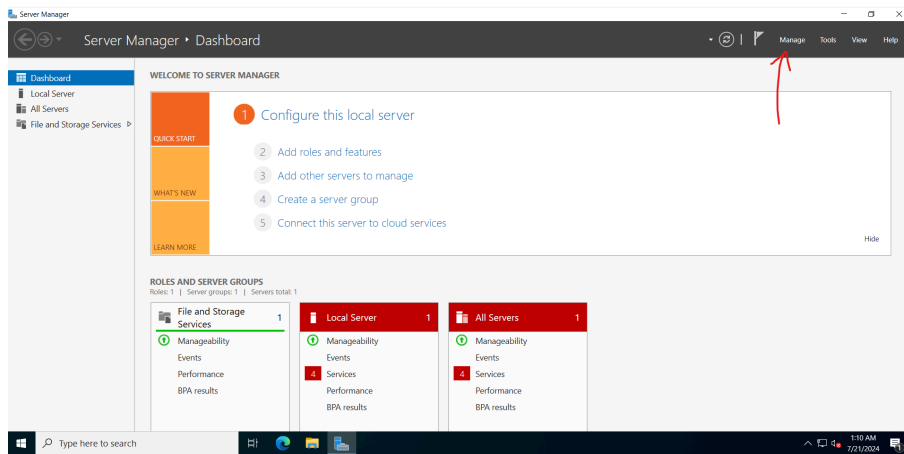
To do that,
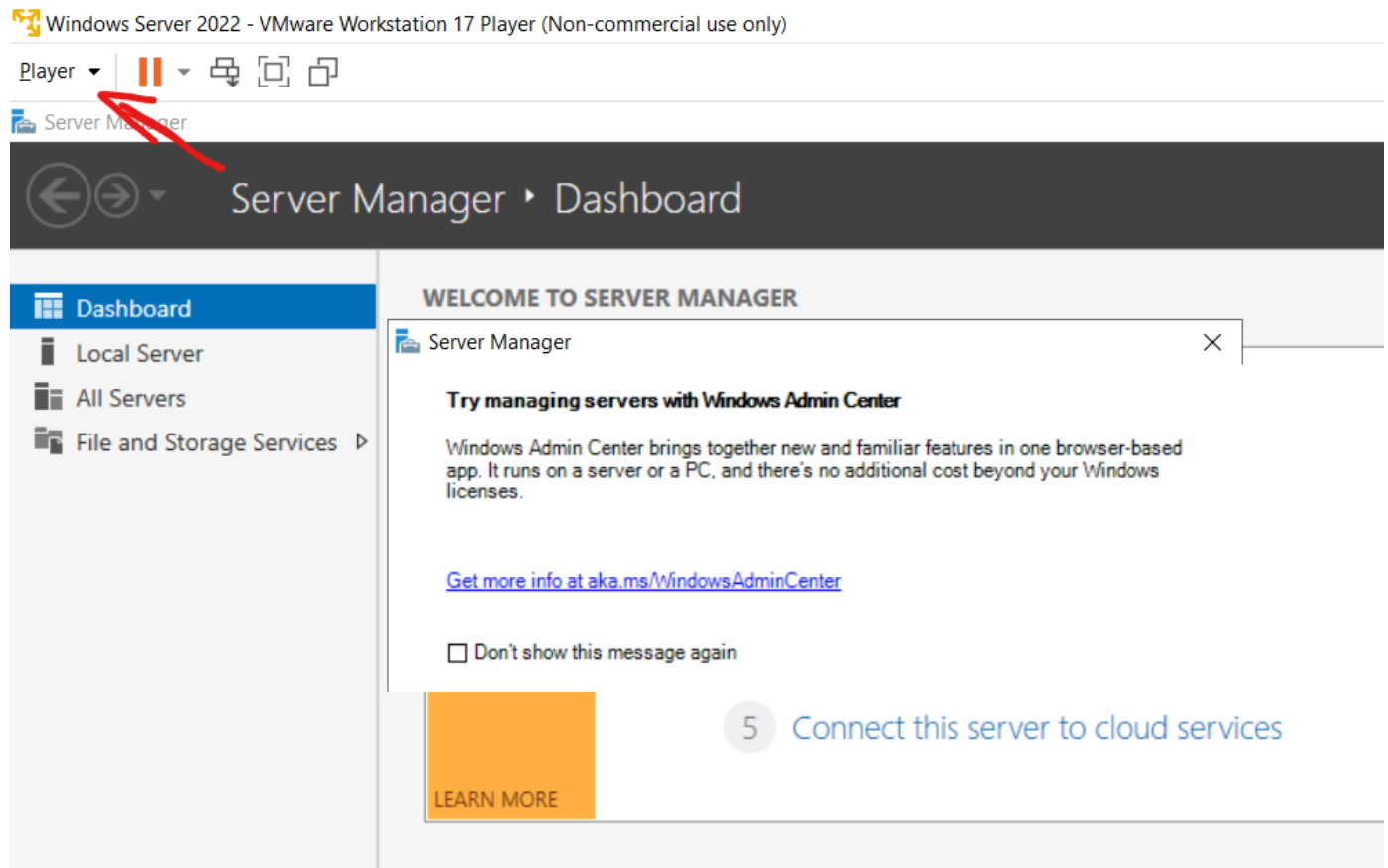
Then,

Manage > Install VMware Tools.

Then, on the virtual machine navigate to the "D:" drive, and run "setup64.exe". That will installs the tools.

1- Rename PC > Just type "Rename" in the search bar.

2- Make it Domain Controller > Go to "Manage" on Server Manager > "Add Roles and Features".
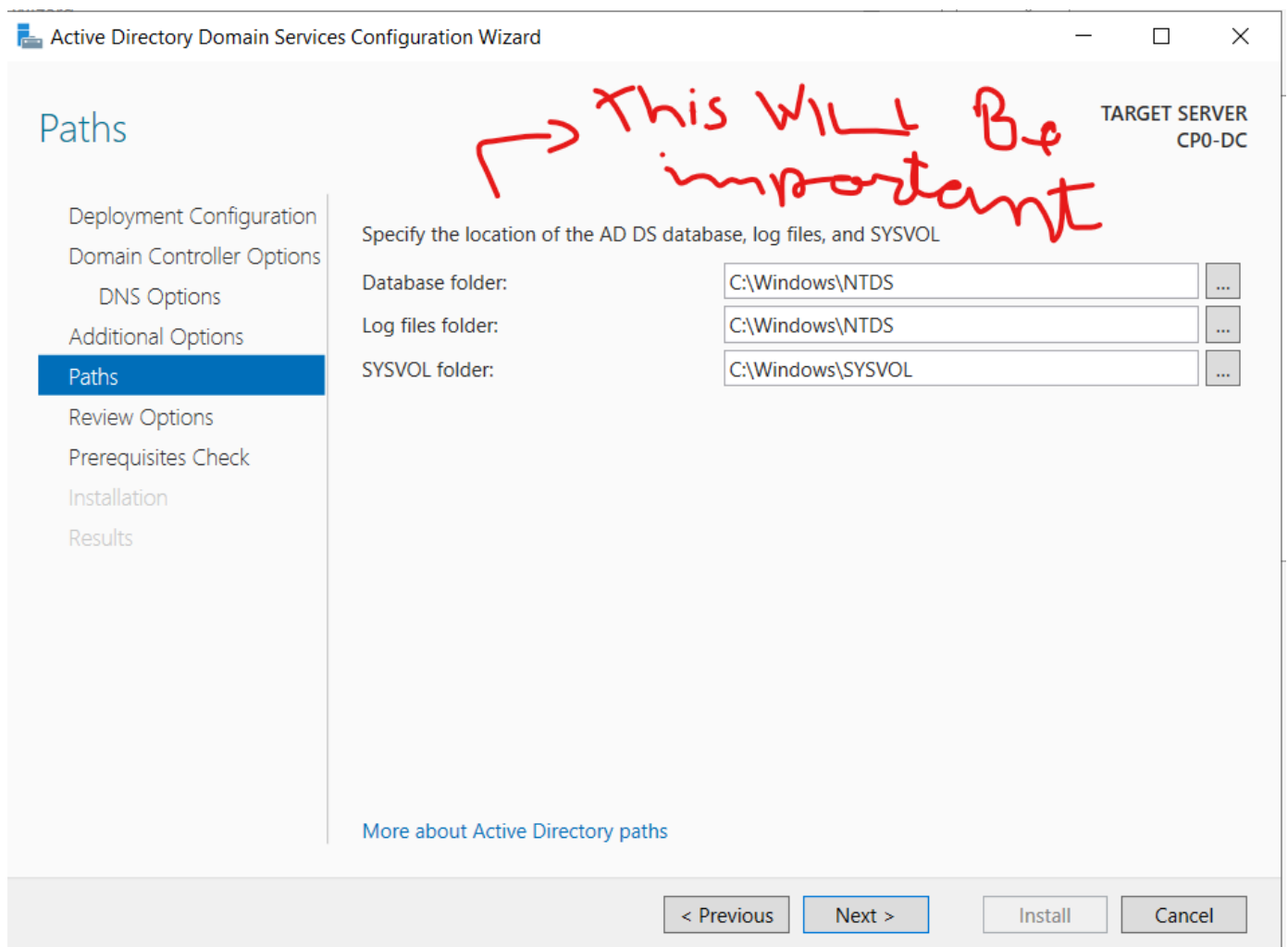
The wizard will pop up. Click next > Select "Role-Base or feature-based installation" > Leave Server Selection as default > On Server Roles, we want to add "Active Directory Domain Service" > Add Features > Click Next until the Confirmation screen > On the Confirmation screen, select "Restart the destination server automatically if required." > Install.

Before doing anything else, we want to "Promote this server to a domain controller."
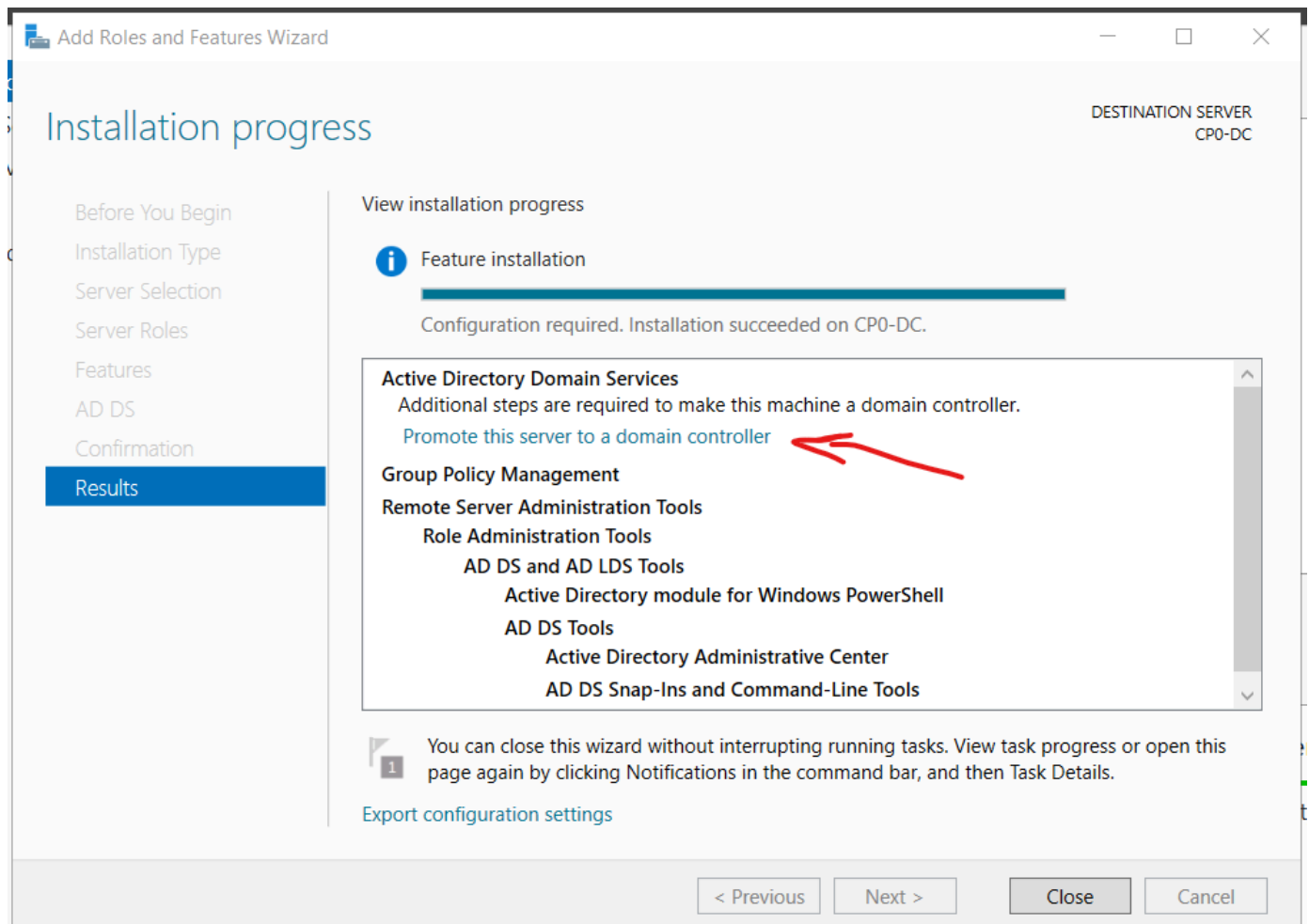
So, do not click close.

Now, we need to "add new forest", so we can put our little domain in it. > Set password to be the same as account password > Click Nest > Next > Next

Active Directory Domain Services Configuration Wizard

Paths

Deployment Configuration
Domain Controller Options
   DNS Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results

Specify the location of the AD DS database, log files, and SYSVOL

Database folder:	C:\Windows\NTDS
Log files folder:	C:\Windows\NTDS
SYSVOL folder:	C:\Windows\SYSVOL

More about Active Directory paths

[< Previous] [Next >]   [Install] [Cancel]

After prerequisite check, go ahead and install.

We are going to getting a warning that we are being signed out. Go ahead and click close.

It is going to reboot.

Log in.

Last step is to set up "Certificates Services".

Go to "Manage" on the Server Manager > "Add Roles and Features" > click next until Server Roles screen > On Server Roles, select "Active Directory Certificate Services" > Add feature > On the Confirmation screen, select "Restart the destination...." > Install.

Do not close the screen. Select "Configure Active Directory Certificate...."
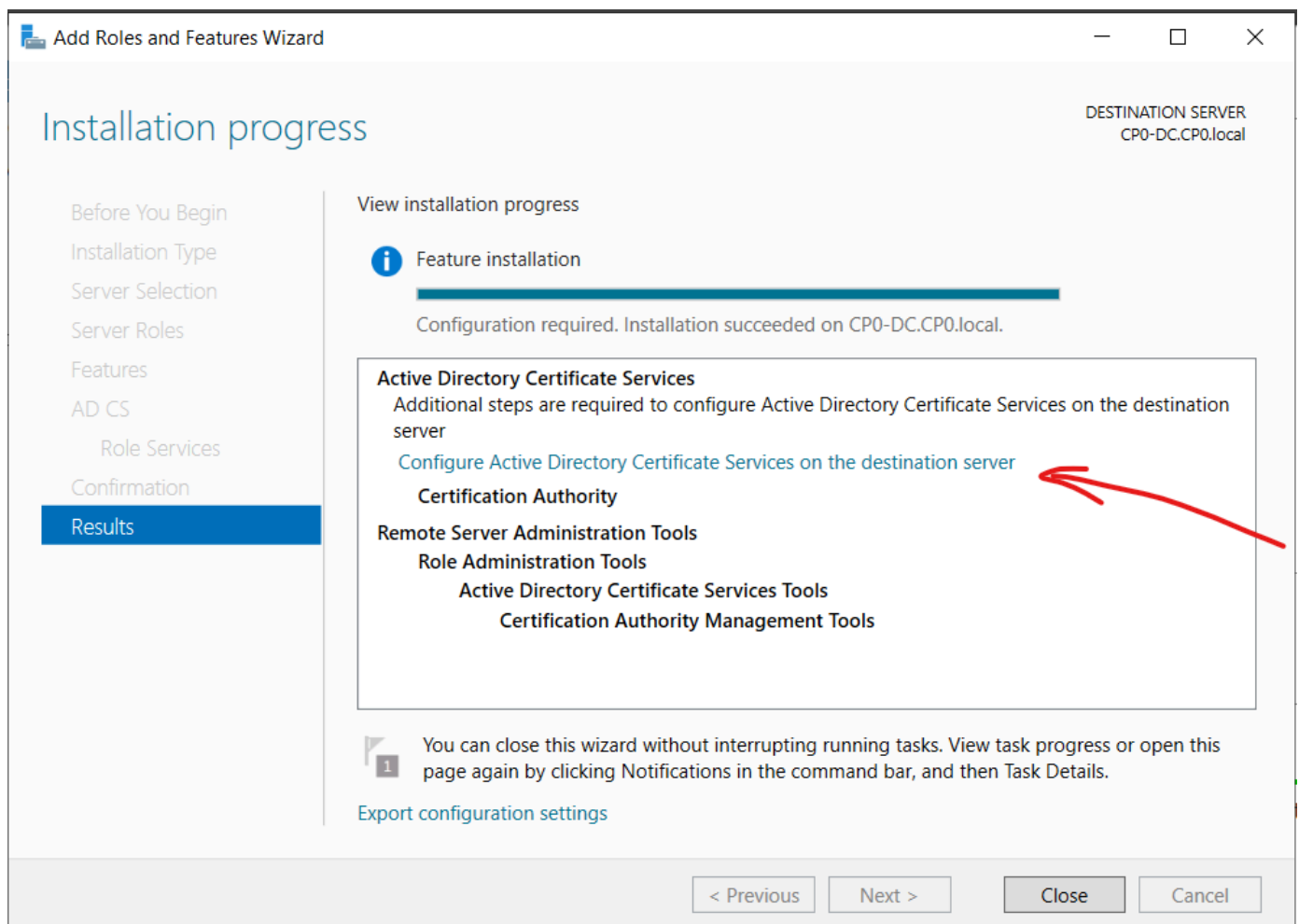
We are going to take most of the defaults.

On Credentials click Next > Make sure "Certification Authority" is selected >Setup Type, Next > CA Type, Next > Select "Create a new private key" > SHA256 > Next > Next > Next > Configure.

Reboot it, and we are done.