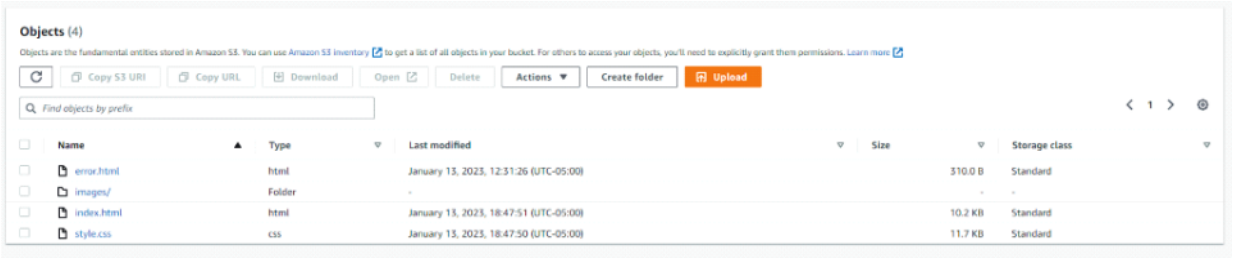
KEY

Monday, February 20, 2023 8:39 PM

Important Headings are Underlined and Bold:

- A bullet point indicates a note and NOT a step

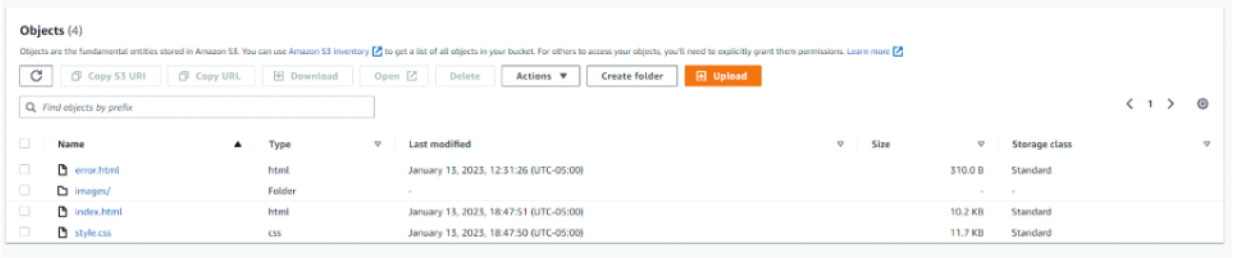


- Bullet points may have images along with them to help visually
  - Bullet points may also have sub-bullet points for a more in-depth explanation

Headings in Bold Also Indicate Important Steps:

1. Steps are numbered, every new page starts with Step 1 and so on
   a. Steps may have sub-steps to add more information

2. Steps may also have images to help visually



3. **Bold** word in steps indicate a button

4. *Italicized* words in steps indicate input fields or options

5. `Keyboard Input` in Courier New Font

6. Underlined words indicate files

7. Menu navigation is indicated by the pipe symbol and italic words: *Start* | *Programs* | *MS Word*

8. Numbers referencing other steps will be in red(1...2...3)

9. Code will be in a textbox in `COURIER NEW` font

```
#include <stdio.h>

int main(void)
{
printf("Hello World in C:)");
return 0;
}
```

Introduction to the Lab

Monday, February 20, 2023 1:57 PM

Home Lab Machines:

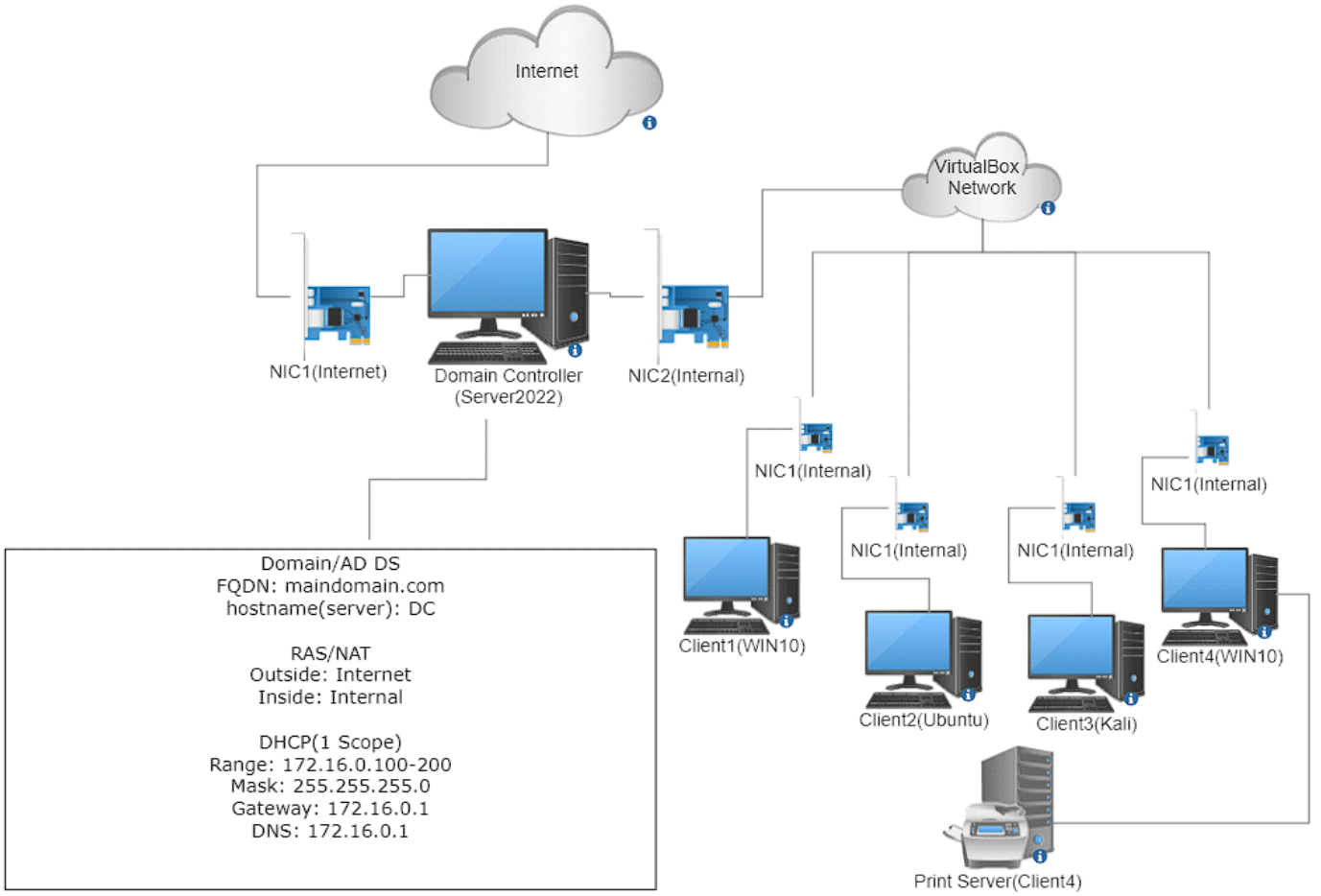
- 1 Windows Server 2022
- 2 Windows 10 Clients
  - 1 is used as a print server
- 1 Ubuntu Client
- 1 Kali Client
- All machines are virtual
- Am using VirtualBox software

Other Items Included in This Lab:

- Added an Ubuntu and Kali machine to the domain
- Created a Samba File Server for file sharing between clients
- Deployed software with a GPO
- Enabled SSH on clients
- Managed access controls for admins and users
- Deployed folder redirection for Windows clients
- Added a network-wide print server
- Other minor tasks were included(grouped in with the above tasks)

Notes About the Machines and Lab:

- All machines are added to the domain
- Print server is installed on Client4(WIN10)
- Network Diagram:



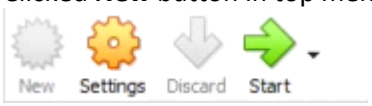
Creating a VM

Monday, February 20, 2023 10:24 PM

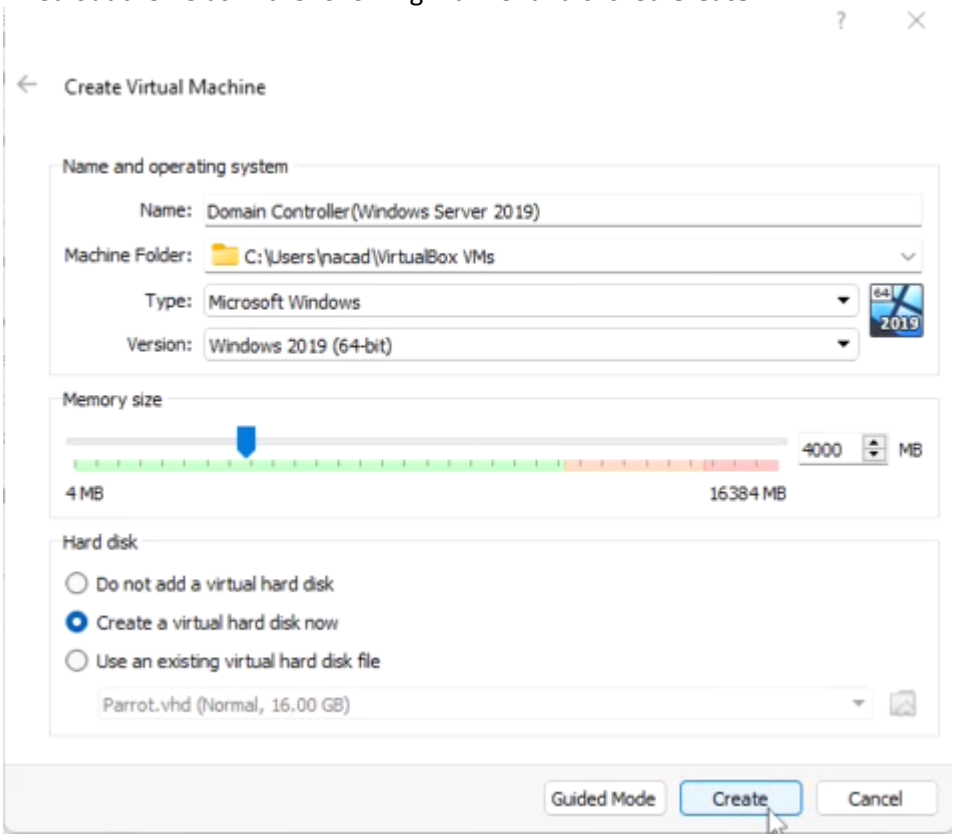
- Make sure to have the proper ISO files!
- Steps to create other VM's with different OS's is about the same process

Creating Windows Server(2019) VM:

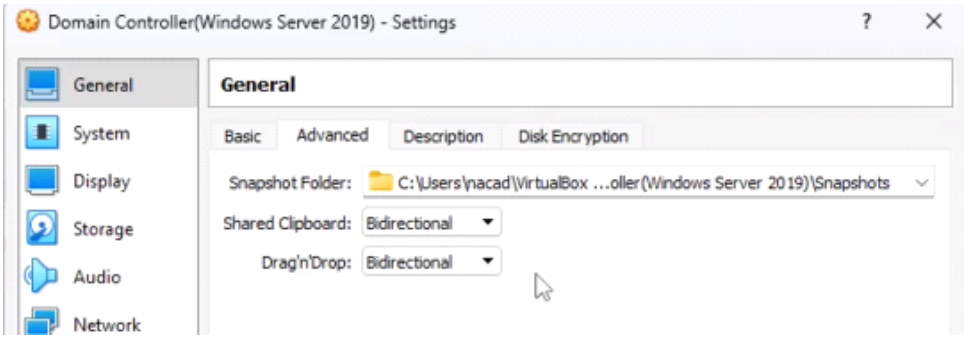
1. Clicked **New** button in top menu in VirtualBox



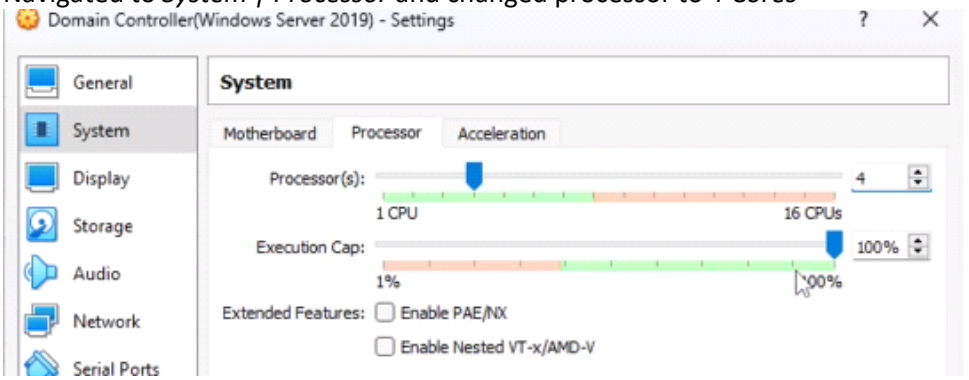
2. Filled out the fields in the following manner and clicked **Create**:



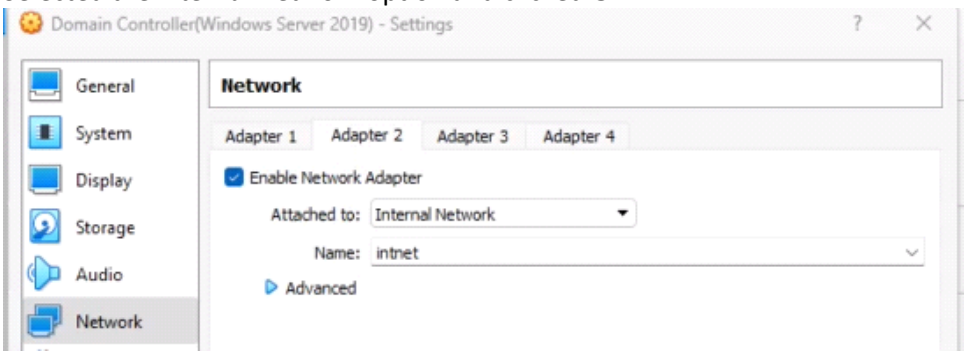
3. In the next window, moved slider bar to *100GB* and selected the *VDI(VirtualBox Disk Image)* option and clicked **Create**
4. Before turning on Machine right-clicked VM and click on **Settings**
5. Go to *General | Advanced* menu and turn on Bidirectional clipboard



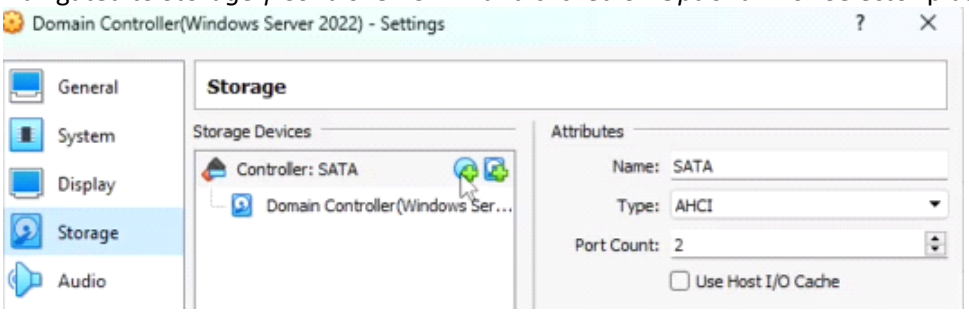
6. Navigated to *System* | *Processor* and changed processor to *4 Cores*



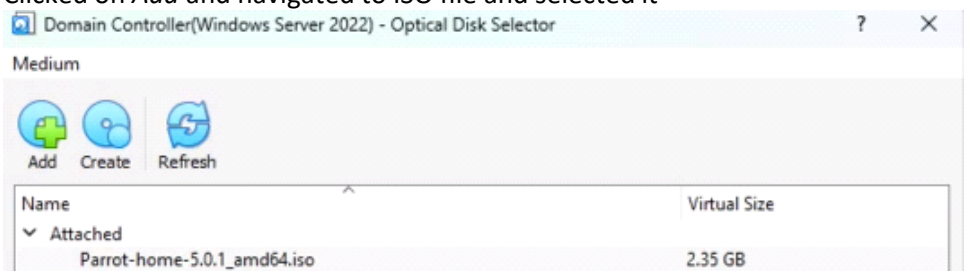
7. Navigated to *Network* | *Adapter 2* and enabled Adapter 2
   a. Selected the *Internal Network* option and clicked **OK**

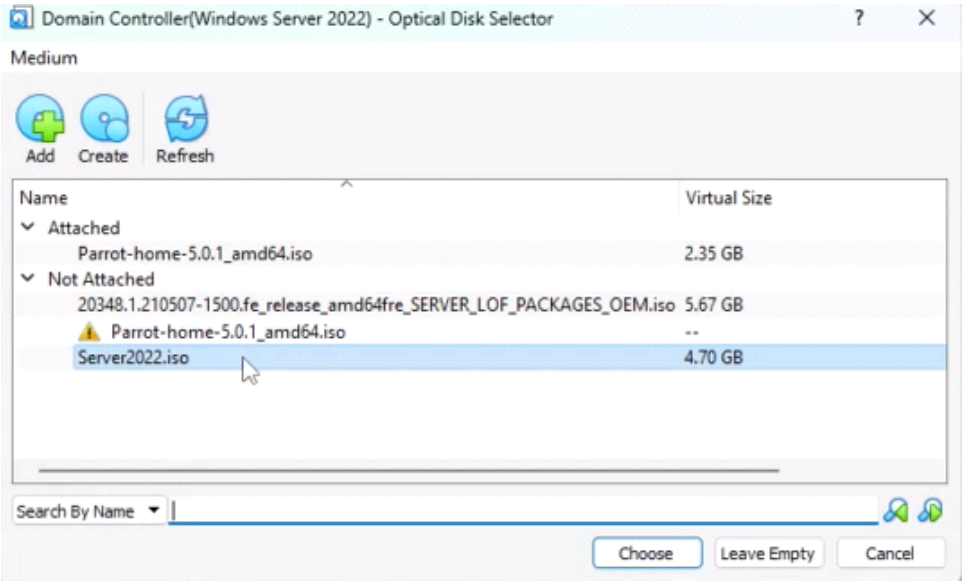


8. Navigated to *Storage* | *Controller: SATA* and clicked on *Optional Disk Selector* plus sign



9. Clicked on *Add* and navigated to ISO file and selected it





10. Double-clicked VM to turn it on, VM has successfully been created