

Windows Lab 7/8

ITSC 200: Network Protocols and Security

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Lab Outcome(s)

* Install Windows Server 2016.

Reading

* None

Introduction

This lab is to practice the installation of Windows Server 2016 in a virtual machine and install Active Directory.

1. Installing Windows Server 2016  
   1. Create a new virtual machine in Virtualbox  
      1. Set the Operating System type to Windows 2016 (or Windows 2012 64 bit if 2016 is not available)
      2. Set RAM to 4 GB.
      3. Set the networking to NAT (for now).
      4. Set the disk space to dynamic and 50 GB.
      5. Attach the Windows Server 2016 ISO to the virtual CDROM
   2. Start the VM and select the datacenter edition
   3. Once the install is complete, check the IP address, subnet mask, DNS, and default gateway.
   4. Set the static IP information to match the dynamically supplied information above.
   5. Allow the updates to be installed (this will take a while).
   6. Create a snapshot of the VM once all of the updates have completed and you reboot the Windows Server 2016 VM.
   7. Make sure you can access the Internet once you reboot.
   8. Add the Active Directory Domain Services role.
      1. You will be informed that the DNS Server role will also be installed. That is fine because AD relies on the DNS server.
      2. You are starting a new Forest and this is the first AD server.
      3. Give your new domain a name (whatever you like … but shouldn’t be a public one like google.com … domain.local is good)
      4. Let it install, this can take a long time. If class ends before the install finishes, you can just “pause” it and “save the machine state” so you can resume the install later.
   9. We will use this VM in the next couple of classes but if you want to play with it in the meantime, make sure that you revert to the snapshot you took earlier so that you have a clean install when we start working with it later.

*No submission for this lab. If you do not complete it successfully, remember to ask for help. This lab is important and* ***every*** *student needs to complete it successfully.*

References

Install Windows Server 2016

https://www.server-world.info/en/note?os=Windows\_Server\_2016&p=install

**Install Active Directory**

https://www.server-world.info/en/note?os=Windows\_Server\_2016&p=active\_directory&f=1

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