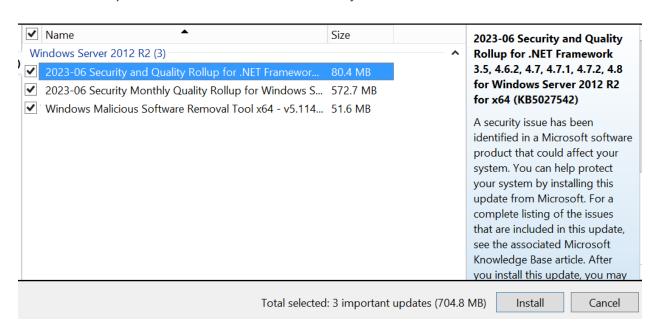
CNT4603 Assignment 4 - Fun With Active Directory Ryan Rowe 6/16/2023

1. Before getting into the meat of the assignment, I made sure to check that my windows systems were up to date. On the 2012 server, I clicked local server -> last checked for updates -> check for updates. 3 were available, so I installed them and restarted the machine. On the 2010 machine, I navigated settings -> Update & Security and I installed the updates available and restarted the machine.

Windows Update



Most recent check for updates: Today at 4:29 AM
Updates were installed: 6/9/2023 at 1:23 PM.
You receive updates: For Windows only.



Windows Update

*Some settings are managed by your organization

View configured update policies



Updates available

Last checked: Today, 4:42 AM

Security Intelligence Update for Microsoft Defender Antivirus - KB2267602 (Version 1.391.1588.0)

Status: Pending install

Update for Microsoft Defender Antivirus antimalware platform - KB4052623 (Version 4.18.23050.5)

Status: Pending install

Windows Malicious Software Removal Tool x64 - v5.114 (KB890830)

Status: Pending install

2023-06 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1

for Windows 10 Version 21H2 for x64 (KB5027537)

Status: Pending install

2023-06 Cumulative Update for Windows 10 Version 21H2 for x64-

based Systems (KB5027215)

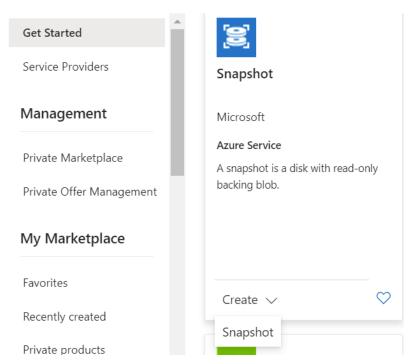
Status: Pending install

Install now

2. To take a snapshot of the windows 2012 machine, I went to the Azure portal, selected "Create a resource," selected snapshot, and filled out the rest of the information, a lot of which is default settings. The name of the snapshot is "Windows2012_snapshot."

Home > Create a resource >

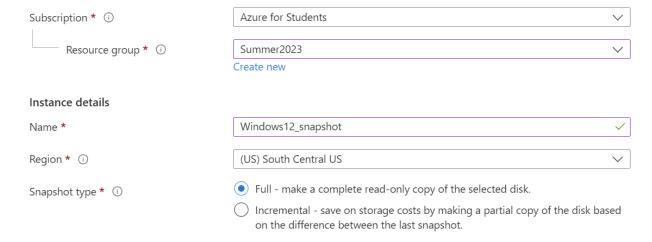
Marketplace



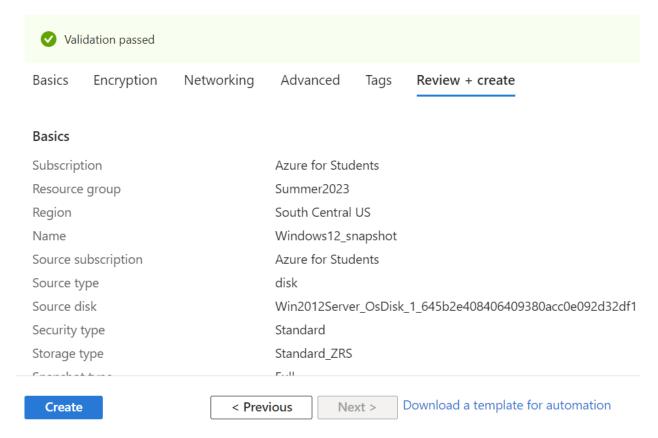
Create snapshot

Project details

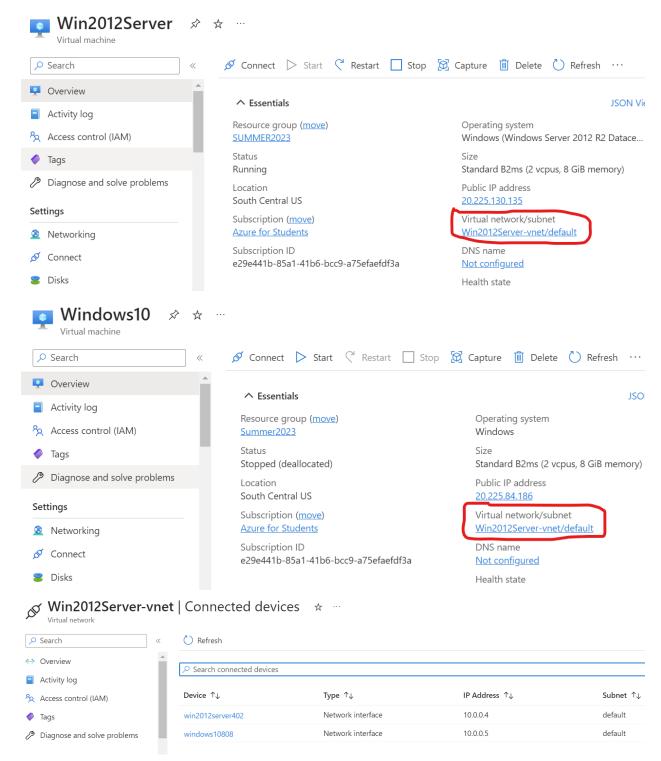
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.



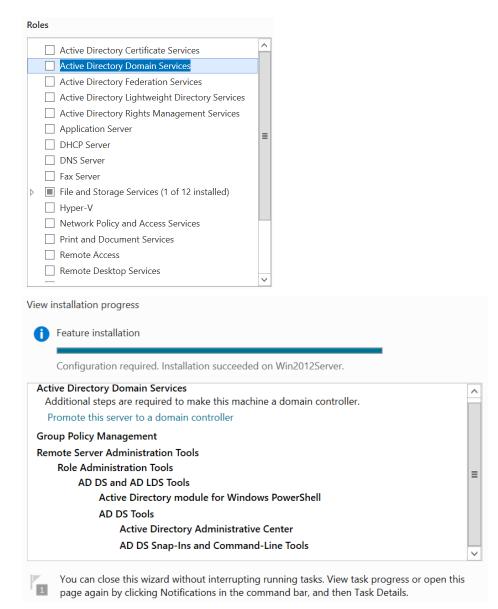
Create snapshot



3. To make sure both machines were on the same local area network (LAN), I checked the virtual network/subnet of both. They both are on the "Win2012Server-vnet/default" subnet, so I know the machines are on the same LAN. In addition, when I clicked on the subnet and looked at the connected devices, both machines were listed.

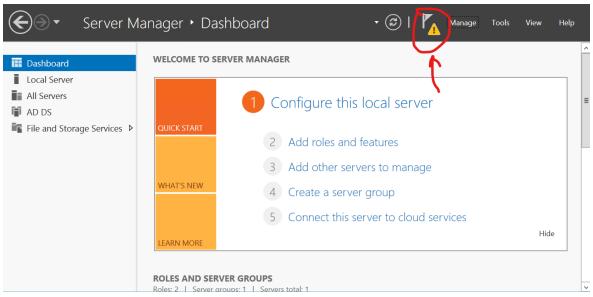


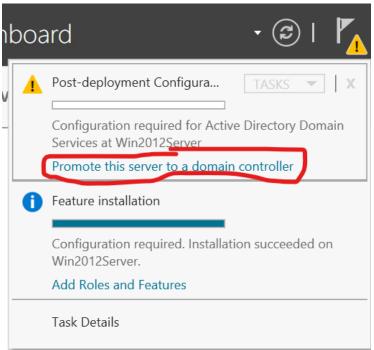
4. Add domain services- In the server manager on the Windows 12 machine, I clicked Manage -> Add Roles and Features, and then I clicked through, leaving defaults, and selected "Active Directory Domain Services" under Server Roles and installed them.

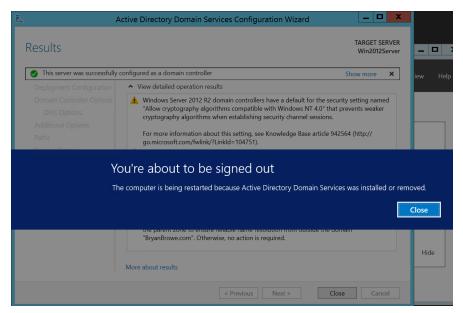


5. Promote your windows server to a domain controller- In server manager, I clicked the flag & warning symbol -> Promote this server to a domain controller -> add a new forest. I made the root domain name BryanBrowe.com and set up Directory Services Restore Mode (DSRM). I then clicked through the rest of the steps, accepting all defaults, and clicked install and the machine restarted.

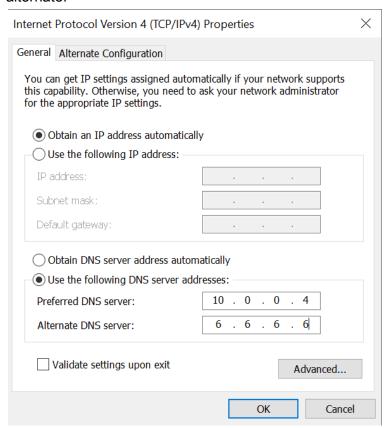
Select the deployment operation	
 Add a domain controller to an existing domain Add a new domain to an existing forest Add a new forest 	
Specify the domain information for this operation	
Root domain name:	BryanBrowe.com



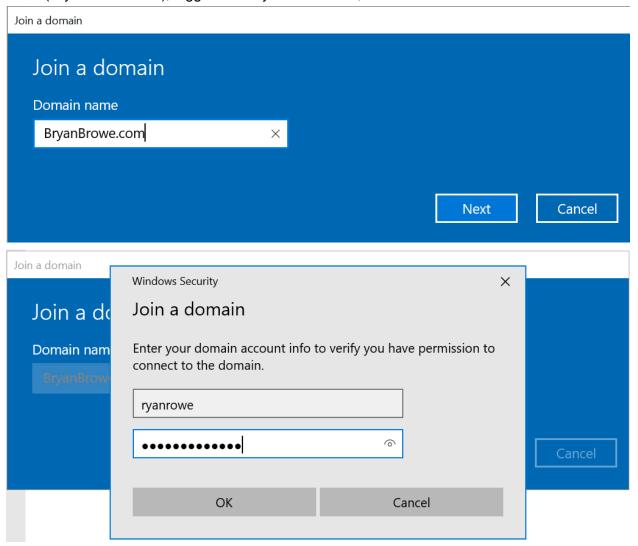




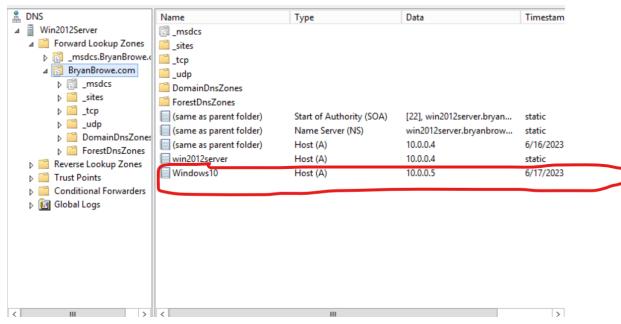
6. Join your Windows 10 computer to your new domain- To start, I changed the DNS server on the Windows 10 machine. To do this, I opened up the control panel, navigated through Network and Internet -> Network and Sharing Center -> Change adapter settings -> right-click Ethernet and select Properties -> IPv4 Properties. I then entered the IP of the windows 2012 machine as the preferred DNS server and made up an alternate.



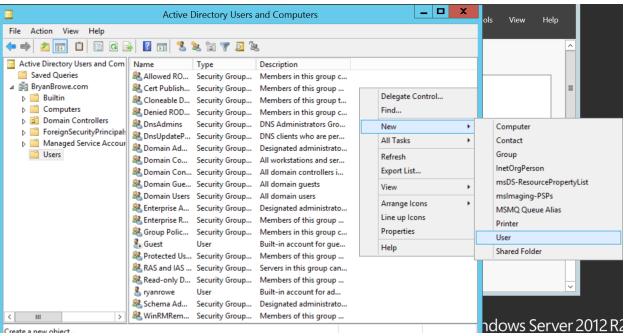
After the machine restarted, I went back into settings -> Access work or school -> connect -> Join this device to a local Active Directory domain. I then typed in my domain name (BryanBrowe.com), logged into my user account, and restarted.

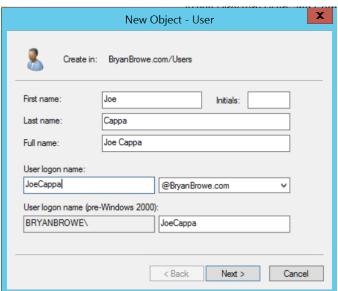


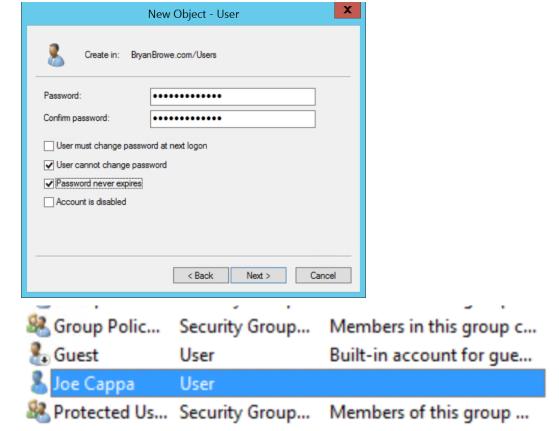
In the DNS section of the server manager on the Windows 2012 machine, I can now find the Windows 10 machine, so it is connected to my new domain.



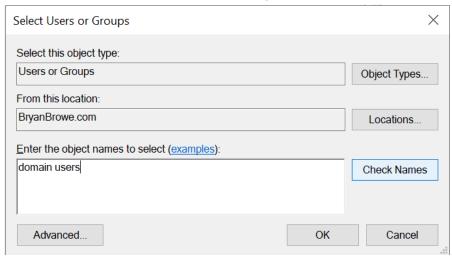
7. Create a non-administrator Domain user on your Windows Server- In the Windows 2012 machine, click the tools dropdown and select Active Directory Users and Computers -> users -> right click, New -> User. I then filled out the information.







8. Login with the new account- In the Windows 10 machine, open settings, I looked up remote and selected Allow remote connections with this computer -> click Show settings next to "Change settings to allow remote connections to this computer" -> under Remote, click Select Users... -> Add -> type "Domain Users" -> Check Names -> OK.

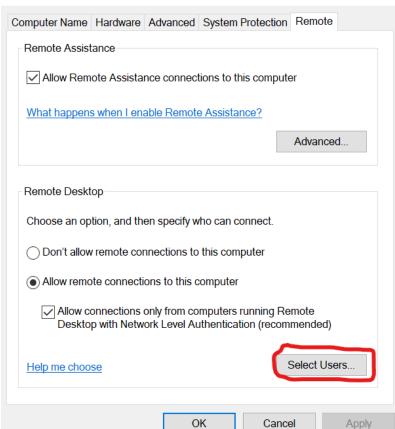


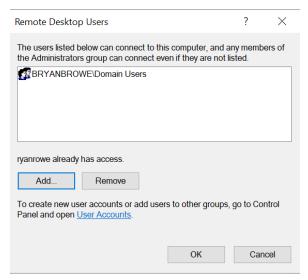
For developers

Remote Desktop

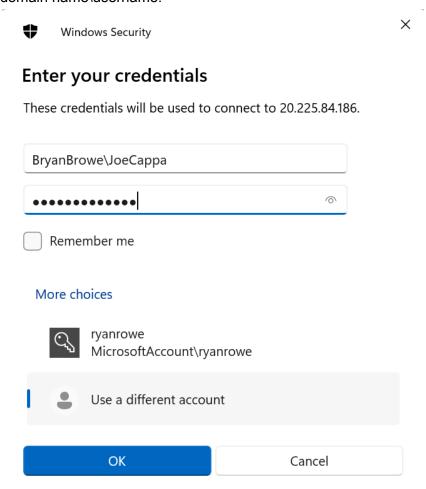
Apply the following settings to enable Remote Desktop and ensure

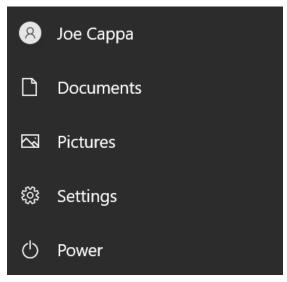
machine availability. Change settings to allow remote connections to this Show settings computer Change settings to allow connections only from **Show settings** computers running Remote Desktop with Network Level Authentication Apply X System Properties Computer Name Hardware Advanced System Protection Remote Remote Assistance Allow Remote Assistance connections to this computer





Finally, I logged out of the admin account and logged in with the new account. Format: domain name\username.





After shutting down the machines, I deleted the snapshot.