INFO603 Practical project documentation template (Engineering journal)
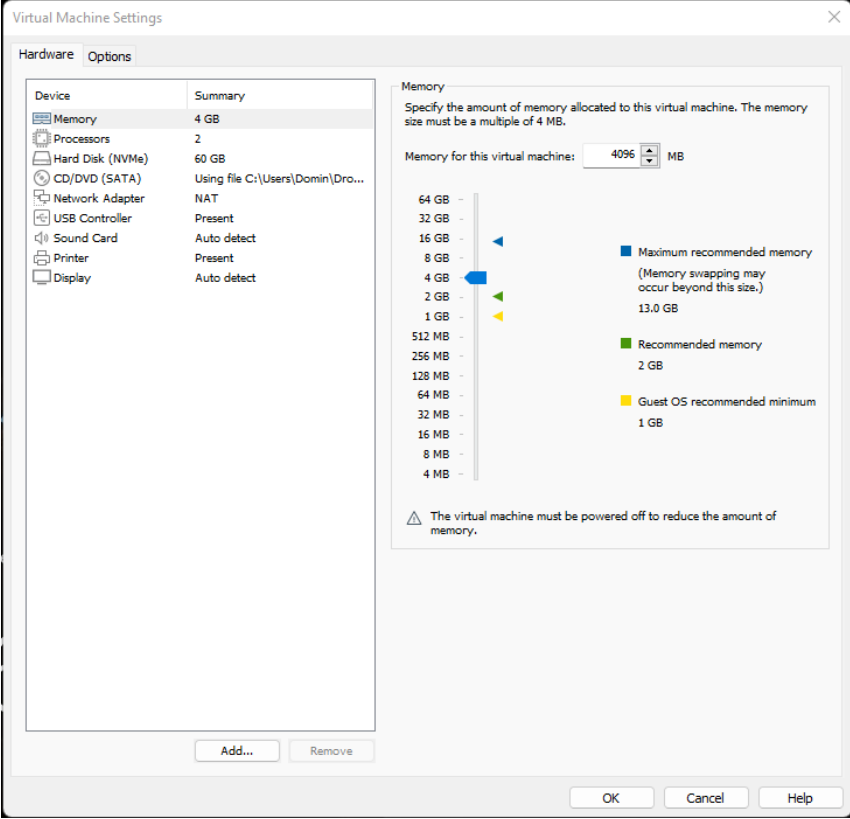
Section number: One

Student name: Dominic Nathan

When doing practical work it is common practice and extremely useful to document the steps you took. This assists you make your learning more tangible and organise it. The more detail you can provide the better it is so that if ever you want to configure it in the future you have a personal record documented.

The project book gives the main implementation steps. However this documentation report requires you document what you did at each implementation step as you are doing the practical project. It is not advised to do this at the end otherwise you are likely to forget what you did.

Please write this in your own words as it is a record of your work. Copied material is not accepted.
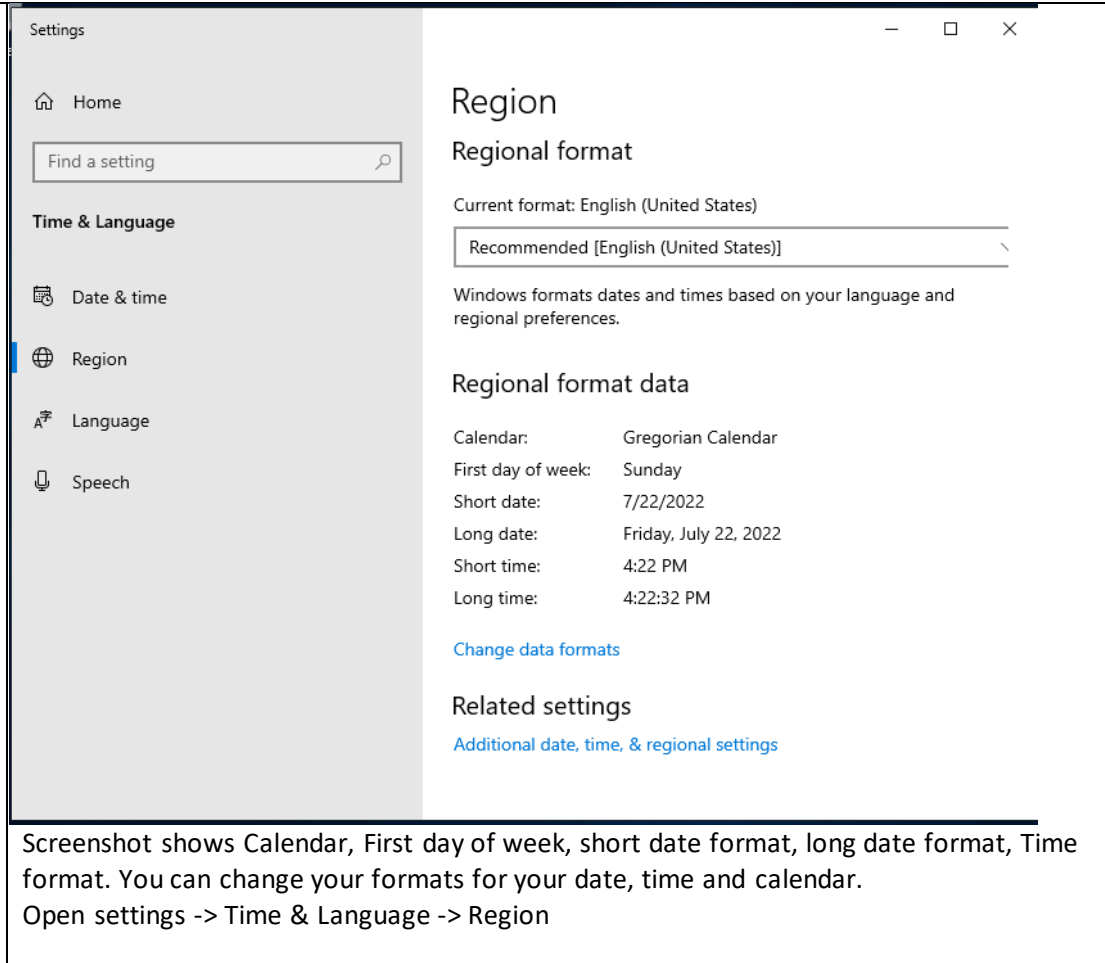
Section Summary	Implementation details at each step e.g. screenshots, written steps, value of settings, commands used, results, answers to questions etc where applicable.
Setting the RAM for the VM	 Screenshot shows that the RAM for the virtual machine has been set to 4GB. The RAM must be set 4GB as it will affect how the Virtual Machine will run, if the RAM is set lower it will take longer for the server to load. VMware workstation->Edit menu-> Memory -> Move the blue slider to 4GB
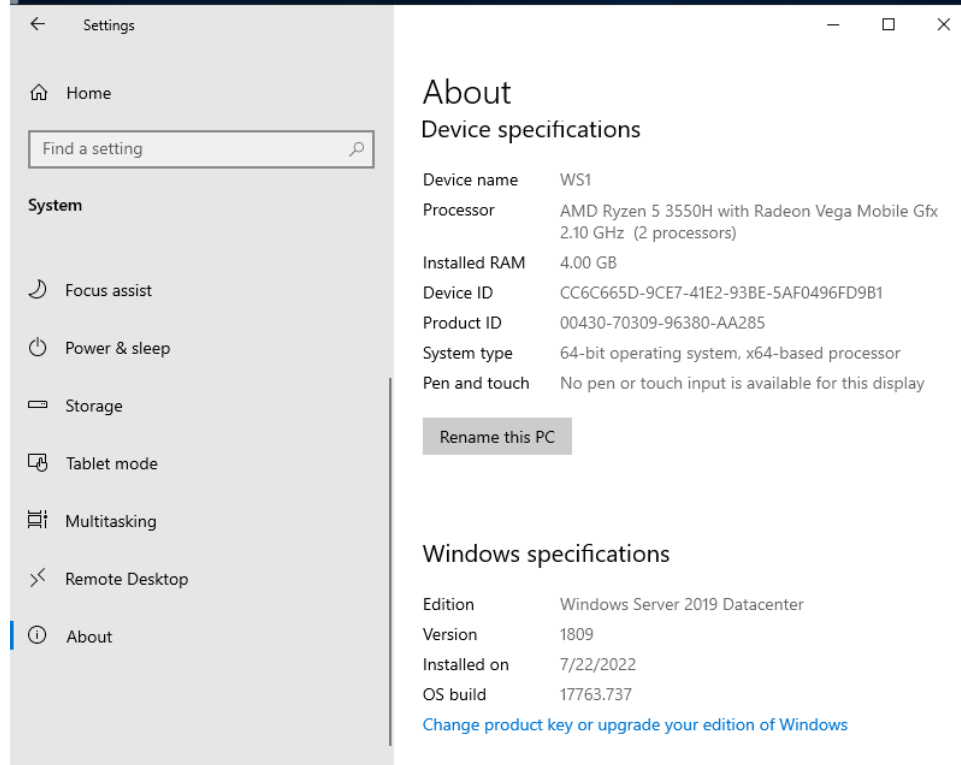
Renaming Server	
	Screenshot shows that the name of the computer has been changed to "WS1" Open settings -> About -> Click Rename this PC

Settings

Home

Find a setting

System

🌙 Focus assist

⏻ Power & sleep

▭ Storage

▱ Tablet mode

▤ Multitasking

✕ Remote Desktop

ⓘ About

About

Device specifications

Device name	WS1
Processor	AMD Ryzen 5 3550H with Radeon Vega Mobile Gfx 2.10 GHz (2 processors)
Installed RAM	4.00 GB
Device ID	CC6C665D-9CE7-41E2-93BE-5AF0496FD9B1
Product ID	00430-70309-96380-AA285
System type	64-bit operating system, x64-based processor
Pen and touch	No pen or touch input is available for this display

Rename this PC

Windows specifications

Edition	Windows Server 2019 Datacenter
Version	1809
Installed on	7/22/2022
OS build	17763.737

Change product key or upgrade your edition of Windows

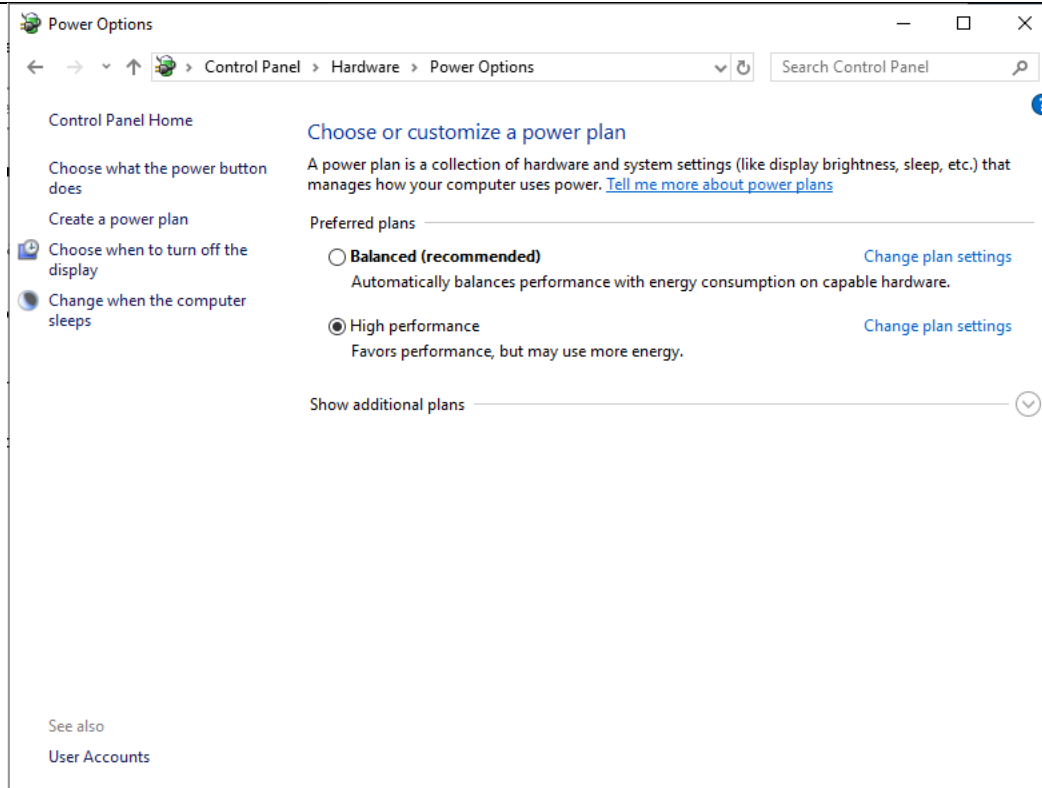| Time & Region	Settings — □ ×
	Region
	Regional format
	Current format: English (United States)
	Recommended [English (United States)]
	Windows formats dates and times based on your language and regional preferences.
	Regional format data
	Calendar: Gregorian Calendar
	First day of week: Sunday
	Short date: 7/22/2022
	Long date: Friday, July 22, 2022
	Short time: 4:22 PM
	Long time: 4:22:32 PM
	Change data formats
	Related settings
	Additional date, time, & regional settings
	Screenshot shows Calendar, First day of week, short date format, long date format, Time format. You can change your formats for your date, time and calendar. Open settings -> Time & Language -> Region

Navigation sidebar (within Settings window):
- Home
- Find a setting
- Time & Language
  - Date & time
  - Region
  - Language
  - Speech

Power Options	

Open Control Panel -> Hardware -> Power Options -> Select High Performance
Changing the power options can be useful depending on what you use your computer for, if you need more CPU power changing it to high performance will benefit you.

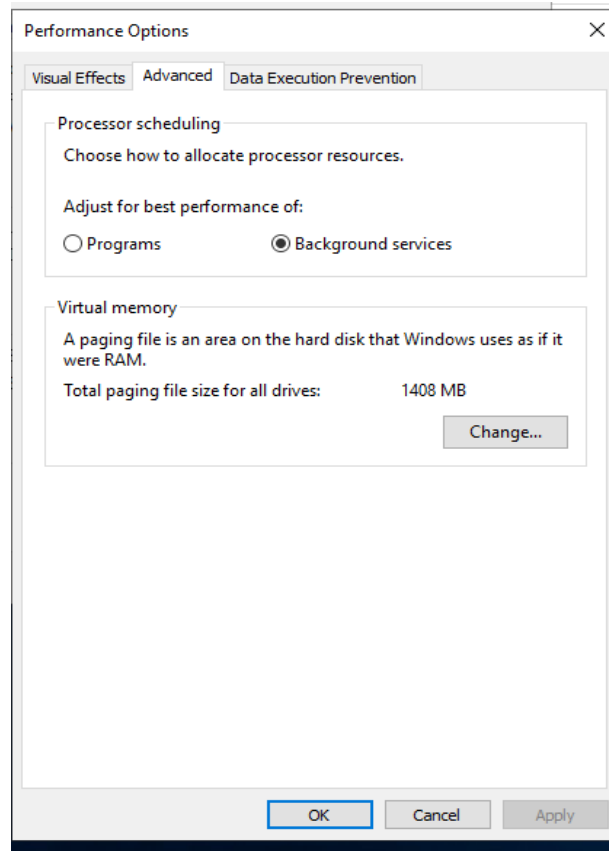| IPv4 address |

Open settings -> Network & Internet -> Advanced network settings -> change adapter options -> right click ethernet -> Select Properties -> Click IPV4 -> Select Properties -> Select the Use the following IP address -> Enter IP address, subnet, and DNS servers.

This is very useful to use especially if you want to manually configure your IP address and DNS servers. |
| --- | --- |

Advanced sharing settings

« Network and Sharing Center › Advanced sharing settings

Search Control Panel

Change sharing options for different network profiles

Windows creates a separate network profile for each network you use. You can choose specific options for each profile.

Private

Guest or Public (current profile)

Network discovery

When network discovery is on, this computer can see other network computers and devices and is visible to other network computers.

○ Turn on network discovery
○ Turn off network discovery

File and printer sharing

When file and printer sharing is on, files and printers that you have shared from this computer can be accessed by people on the network.

○ Turn on file and printer sharing
○ Turn off file and printer sharing

All Networks

Save changes   Cancel

Control Panel -> Network and Internet -> Network and Sharing Center- > Advanced sharing settings -> Select "Turn on network discovery" and "Turn on File sharing"
This allows users to share files and see other devices on the same network. This is very useful for entities that share resources.

Performance Options	
	Performance Options ✕ Visual Effects **Advanced** Data Execution Prevention Processor scheduling Choose how to allocate processor resources. Adjust for best performance of: ○ Programs ⦿ Background services Virtual memory A paging file is an area on the hard disk that Windows uses as if it were RAM. Total paging file size for all drives: 1408 MB [Change...] [OK] [Cancel] [Apply] Open Control Panel ->System ->In the window that opens, choose Advanced system settings ->click the Advanced tab -> In the Performance section, click the Settings button -> In the Performance Options window that opens, -> click the Advanced tab.
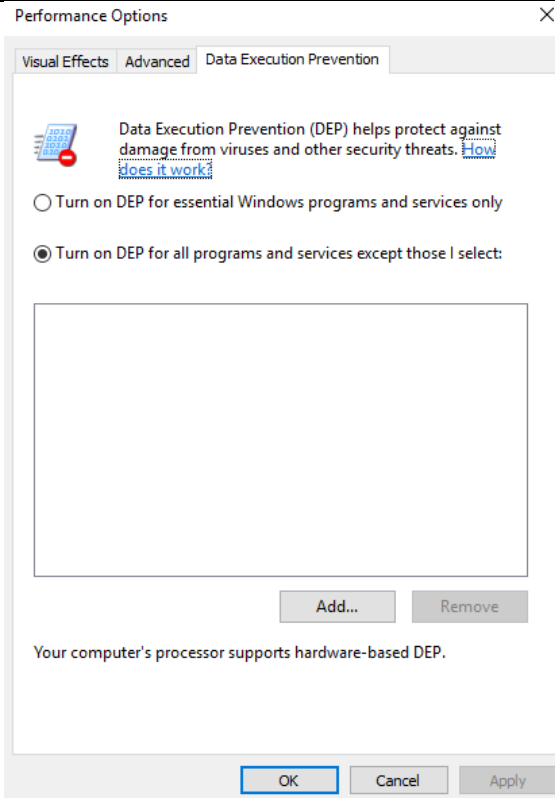
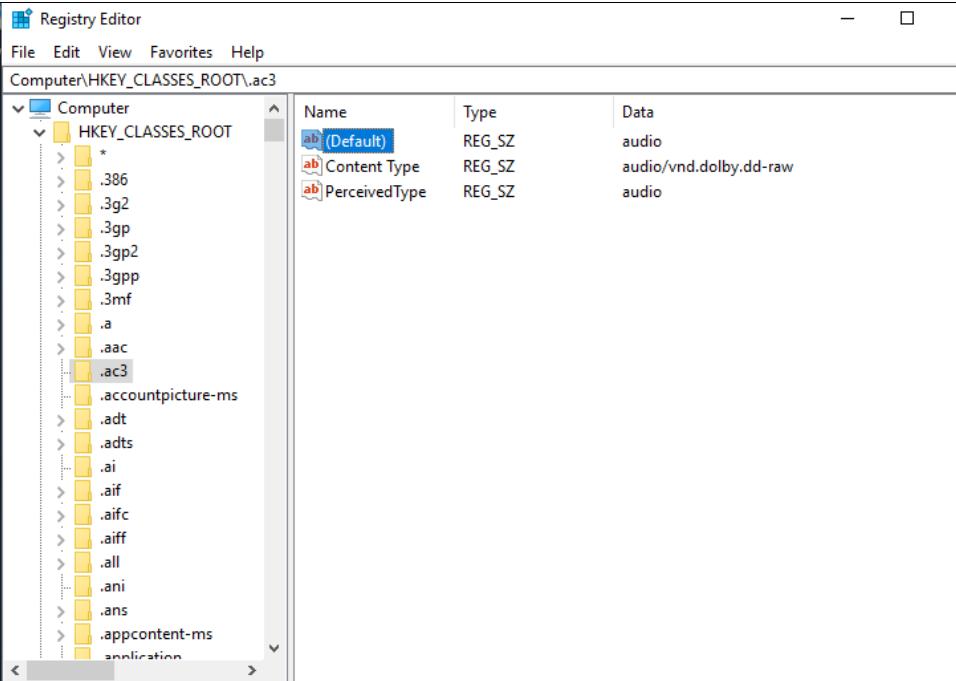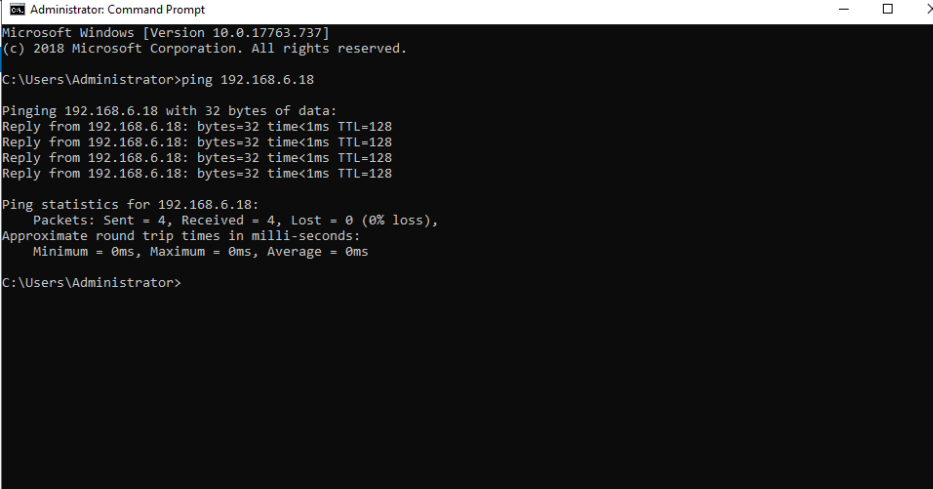| Data Execution Prevention	
	Open Control Panel ->System ->In the window that opens, choose Advanced system settings ->click the Advanced tab -> In the Performance section, click the Settings button -> In the Performance Options window that opens, -> click the Data Execution Prevention tab. Helps protect against virus and other security threats.
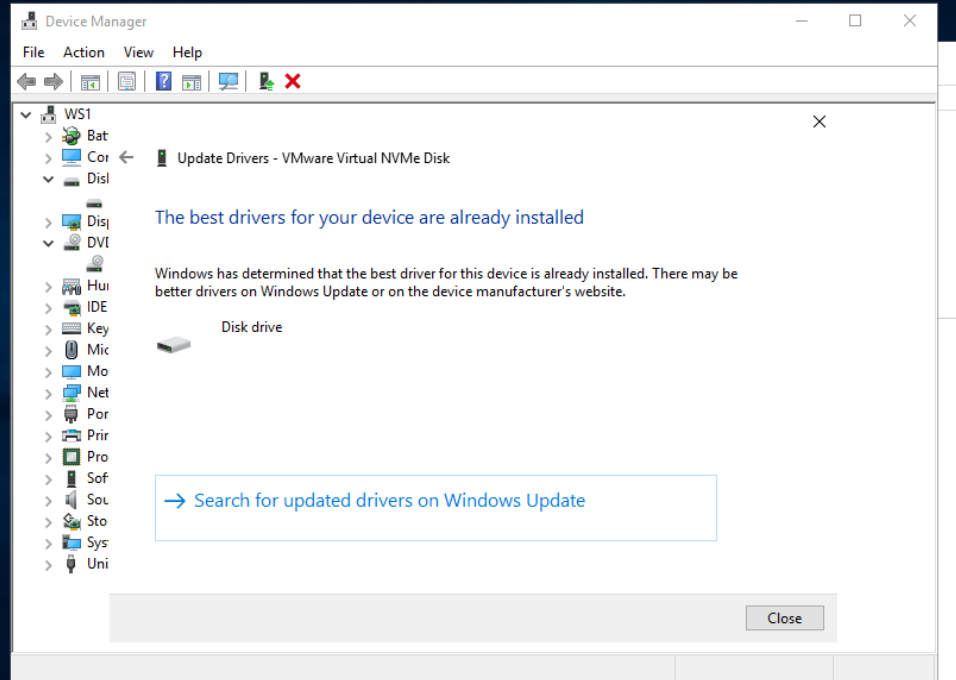
Updating Drivers	
	Open Device manager -> Select the component you wish to update e.g. disk drives -> right component -> click check for update. This will either update the driver or tell the user that there driver is up to date as shown in the screenshot above.
Setting HKEY_CLASSES_RO OT to audio	
	Open Registry editor -> Select HKEY_CLASSES_ROOT -> Select .ac3 -> Select default -> move mouse to Data column -> change it to audio

Connectivity test	
	Open CMD -> Ping IP address
	Shows that WS1 is able to Ping WS2

List At the three most useful Internet resources that you used (provided by the tutor)

Date and time format https://www.youtube.com/watch?v=al0aBV6n9O0
Control Panel Settings https://www.microsoftpresss tore.com/articles/article.aspx?p=2201312&seqNum=5
Windows Registry https://www.computerhope.com/issues/ch001348.htm

List all (at least three) Internet resources that you found and used that were not provided by the tutor)

Processor Scheduling https://davescomputertips.com/windows-10-quick-tips-process-scheduling/
Registry editor https://support.microsoft.com/en-us/windows/how-to-open-registry-editor-in-windows-10-deab38e6-91d6-e0aa-4b7c-8878d9e07b11
Addressing scheme https://www.youtube.com/watch?v=nVKZs-_-7U4&ab_channel=SteveCope

Reflect on at least two significant problems you came across during the implementation of this section and the solution you found. Use at least five sentence to describe each problem and five sentences to describe each solution. Demonstrate your critical thinking and problem-solving abilities.

Problem	Solution
Didn't know that we didn't have to physically cable the network.	Emailed tutor to gain so clarification
Didn't know how access windows registry	Googled it and watch a couple of videos.