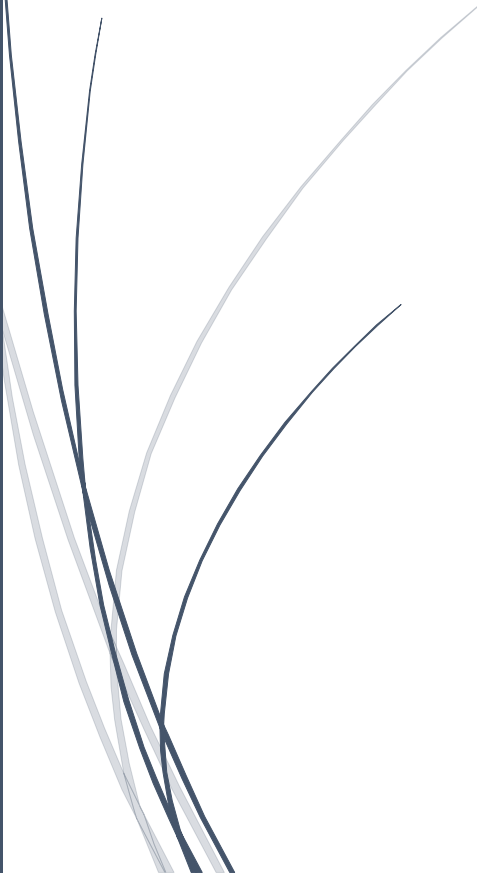




IT Programming: OSYS1200

System Image Capture and Recovery

For Windows 10



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Introduction

The goal of this step-by-step tutorial is to create and implement a system image as a way of back-recovery. This is a two-part process, the creation of the image, and the implantation of this image as a back up

Part 1: Creating the system image

Before we start the steps, you will need to hook up a hard drive of equal or greater value to the hard drive you want to take a system image of. If you would like to test this before creating a system image on your own personal computer, you could use a virtual machine like me

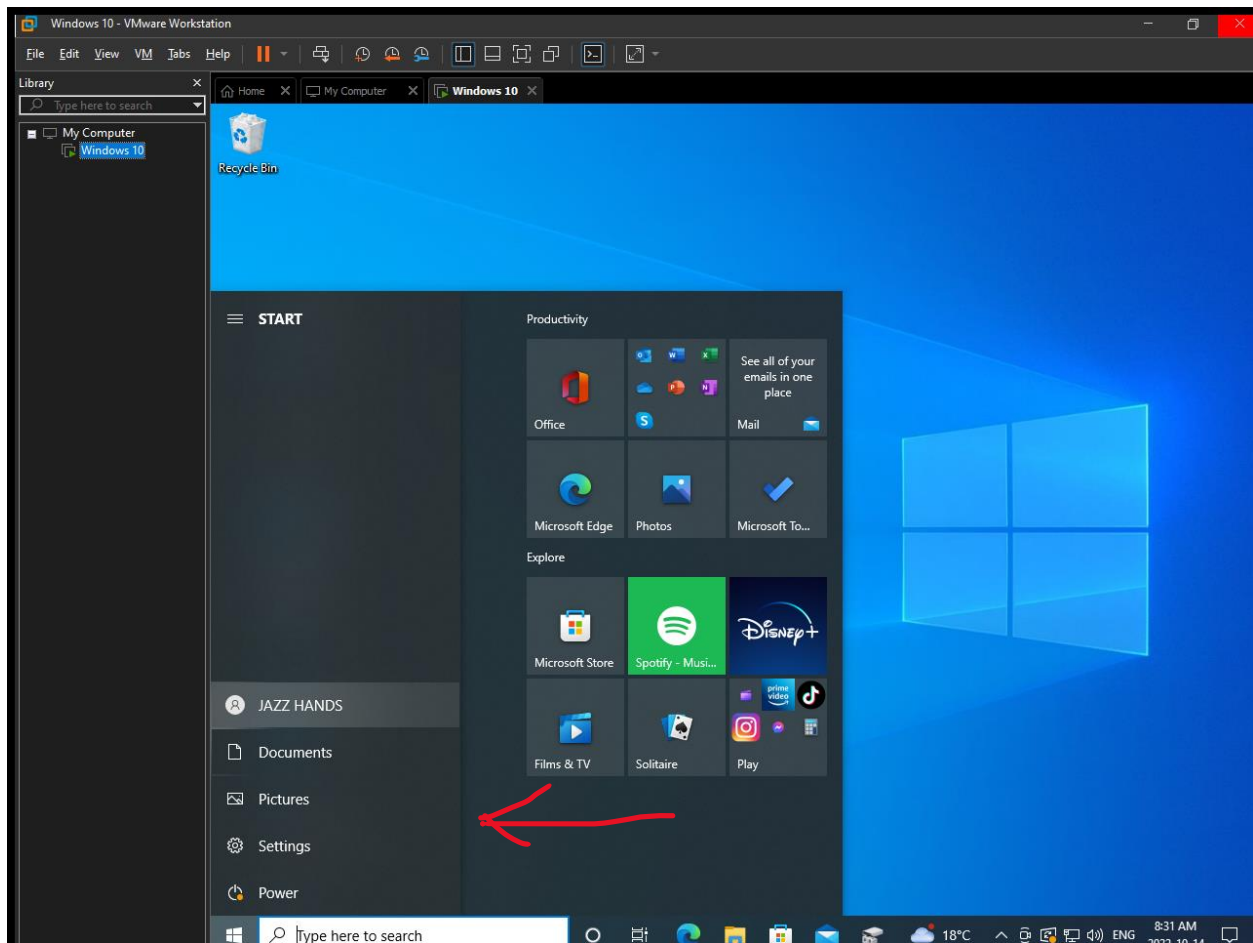


Figure 1 Windows Menu, found in the left-hand corner

Step 1: Go into the system settings of your Windows system

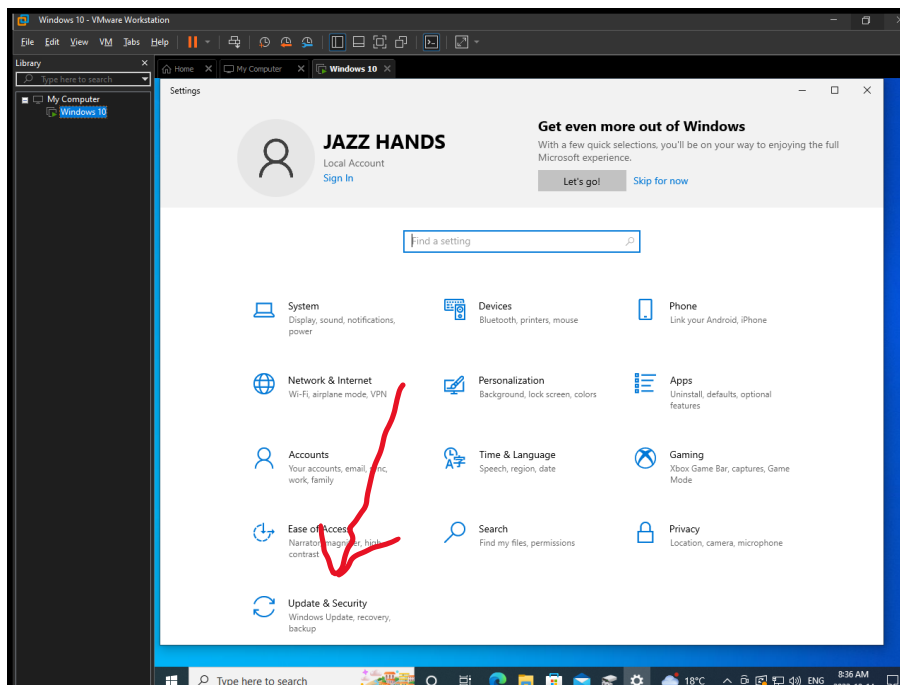


Figure 2 Windows Menu, found in the lefthand corner

Step 2: Navigate to Update & Security in the setting window.

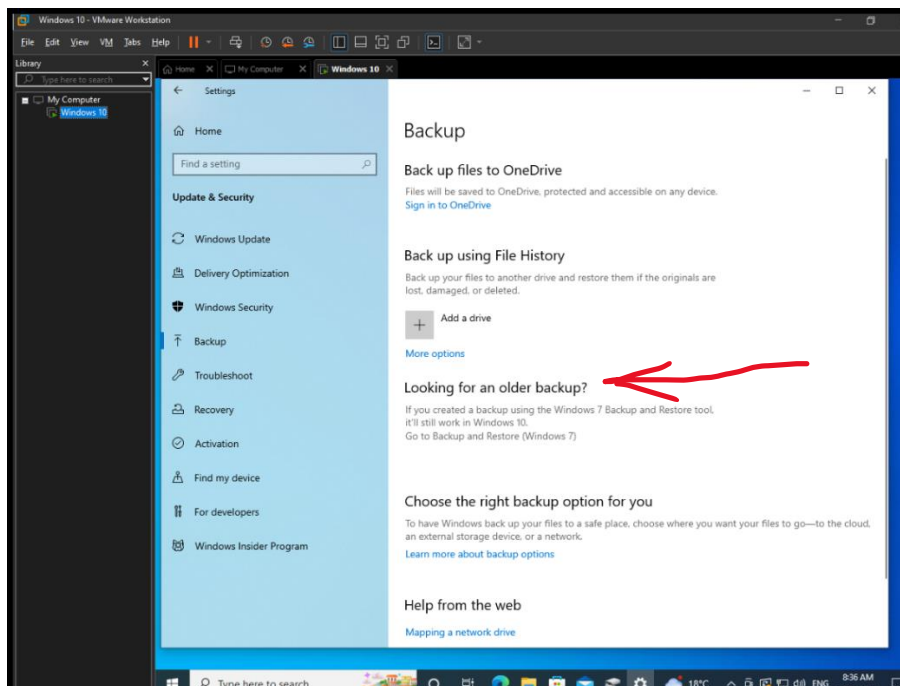


Figure 3 Backup Window found in Update & Security

Step 3: Navigate to Backup in the Update & Security submenu click on the back and restore Windows 7 feature.

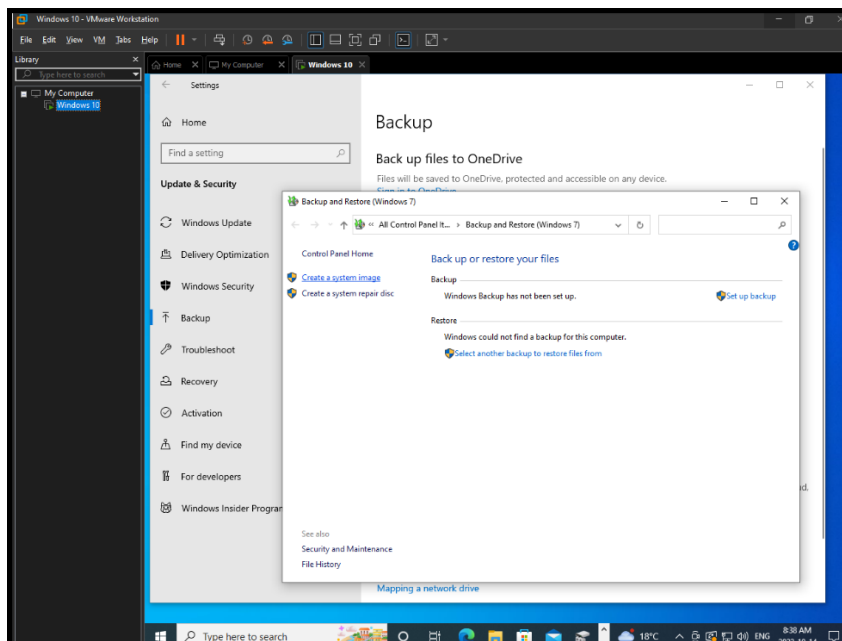


Figure 4 Backup and Restore Window

Step 4: Once in the Back and restore menu, you can create a system image as an Admin command.

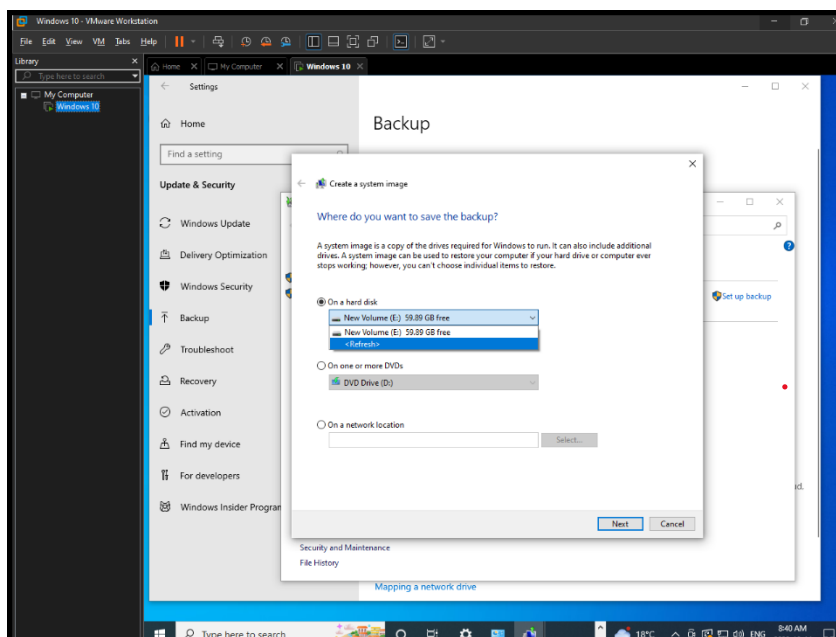


Figure 5 Menu Used to Determine Where System Image Will be Created.

Step 5: You will be brought to a menu that allows you to configure a system image. You will be given the option to save this backup on a hard disk, DVD, or Network, we want to save it on a hard disk so we will select "on hard disk" and select what drive to save it too with the drop-down menu.

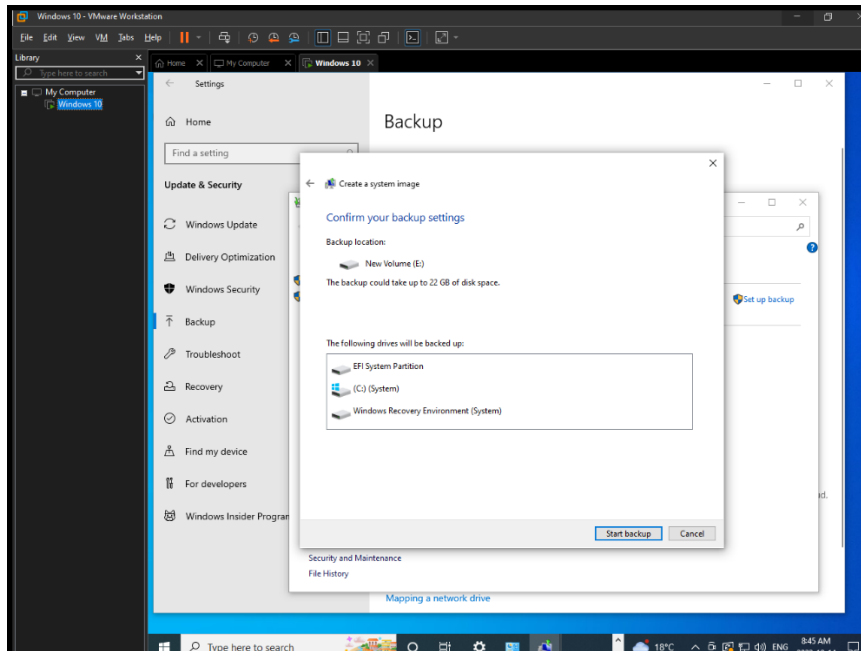


Figure 6 System Image Confirmation.

Step 6: The Next dialogue screen will explain the backup location and the storage space needed at the top of the screen. What drives will be backed up will be shown in a box with a gray outline in the middle of the screen. After making sure everything is in order, you can begin the to create the backup image.

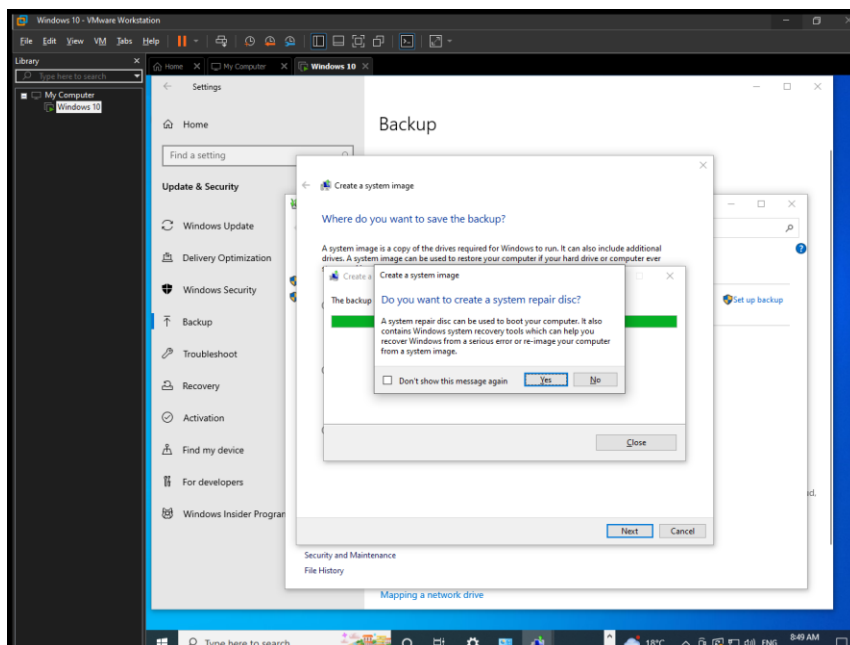


Figure 7 System Repair Disc Dialogue

Step 7: After the backup has been completely finished, a dialogue will ask if you want to create a system repair disc. This isn't necessary so you can just click no.

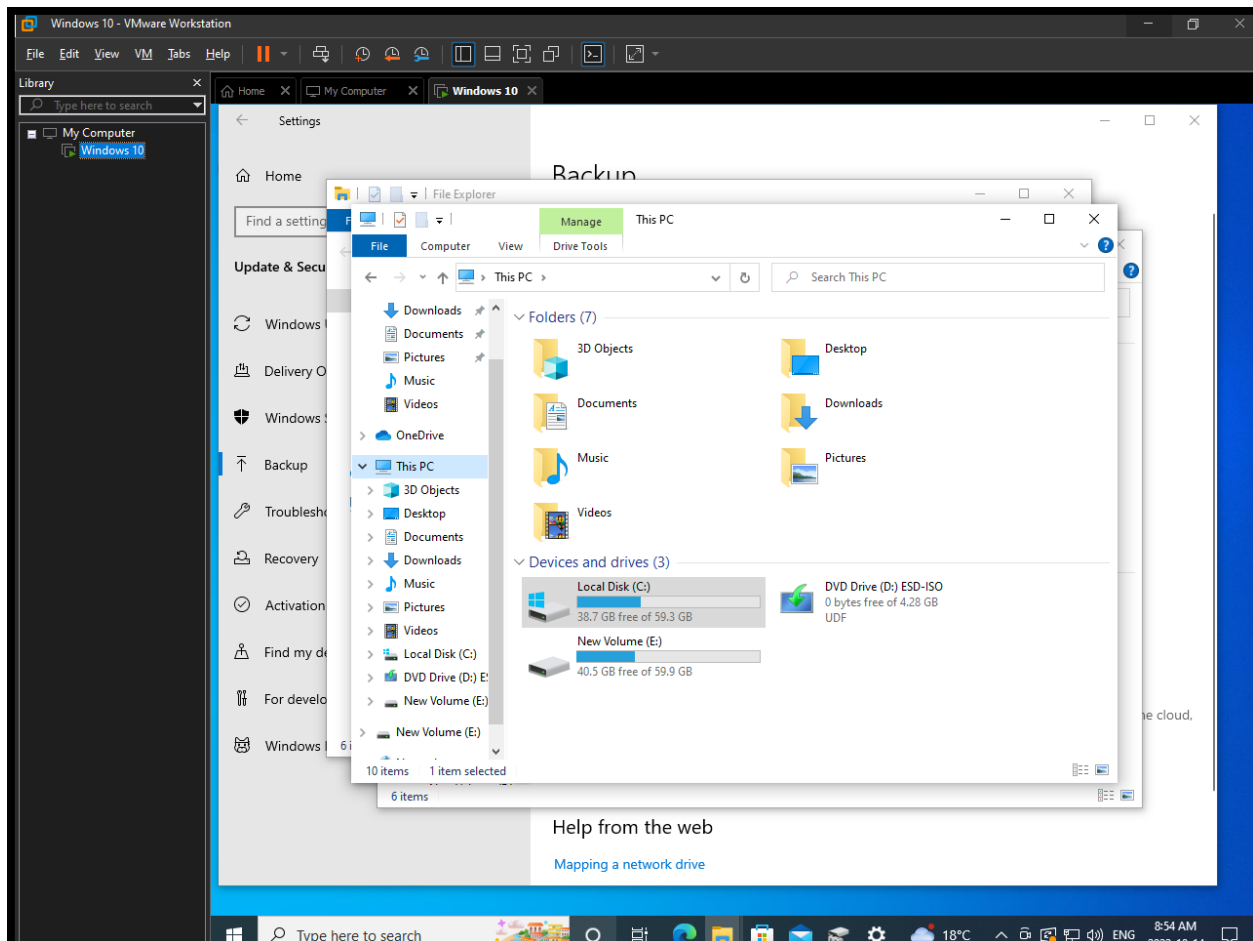


Figure 8 Image Shows The Local Disk C: (Original Drive) And New Volume E: (Where Local Disk System Image Was Saved).

The process has been complete. Now just double-check your file explorer and the new drive should file with the saved image. If it is completely empty, retry the image save process again.

Part 2:

Now that the system image has been created, we can use it to restore all files to its previous state by backing our system up.

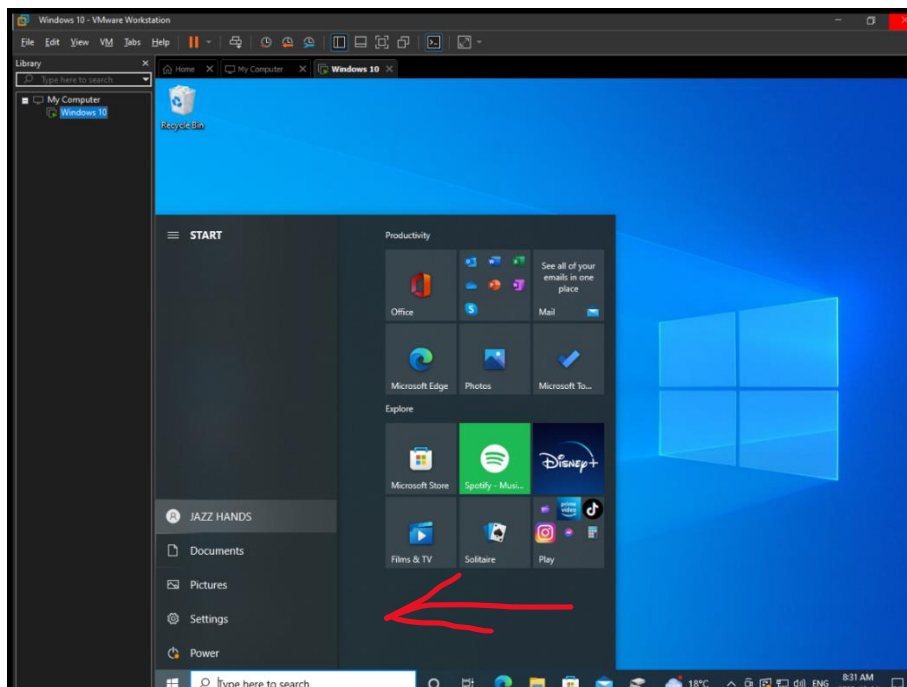


Figure 9 Windows Menu, found in lefthand corner

Step 1: Go to the system settings and navigate to the Updates & Security window

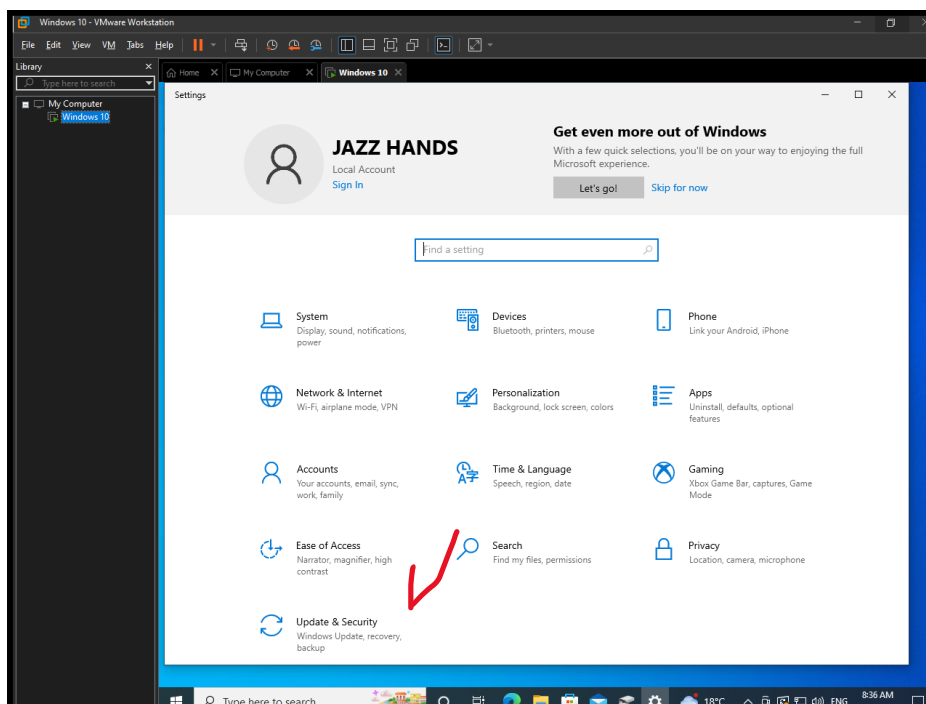


Figure 10 Settings Window

Step 2: From the Update & Security, navigate the recovery submenu, from here, you can reset your PC.

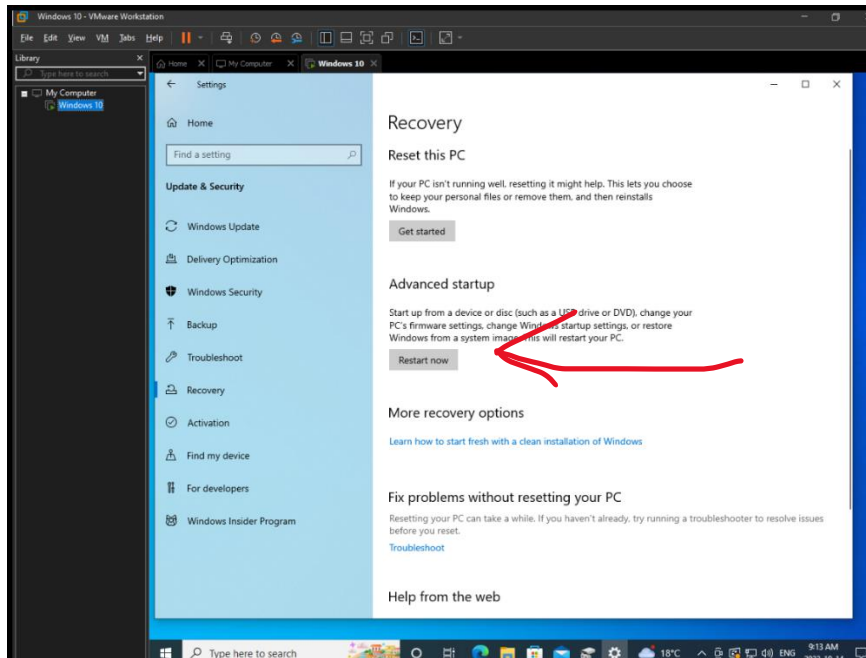


Figure 11 Recovery Menu Found in Update & Security

Step 3: Instead of resetting our PC we will restart the PC using the advanced start-up option by pressing the restart now button.

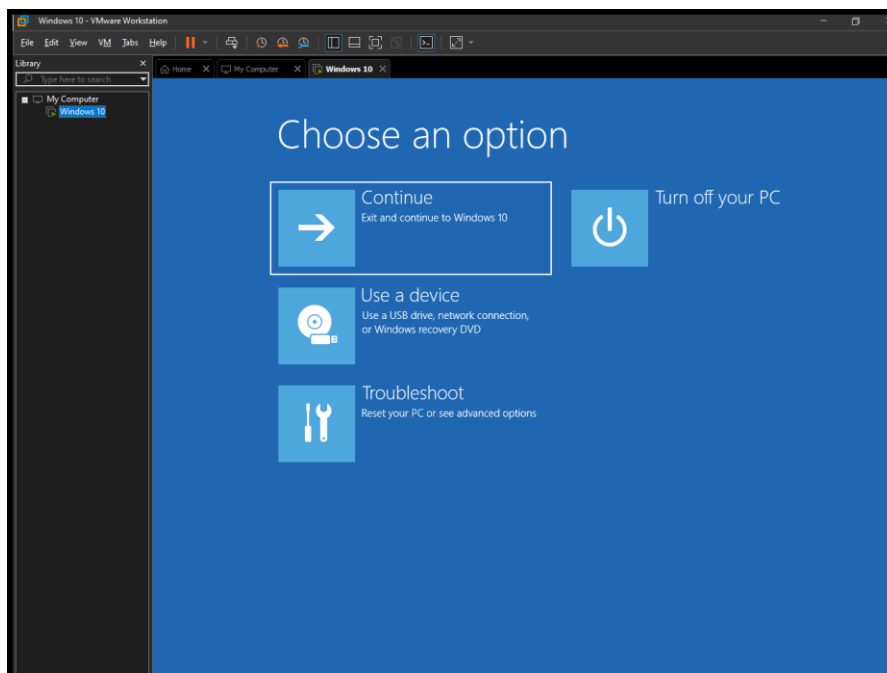


Figure 12 Menu for Recovery Restart Options

Step 4: You will be redirected to choose to form several restart options, we will choose to troubleshoot.

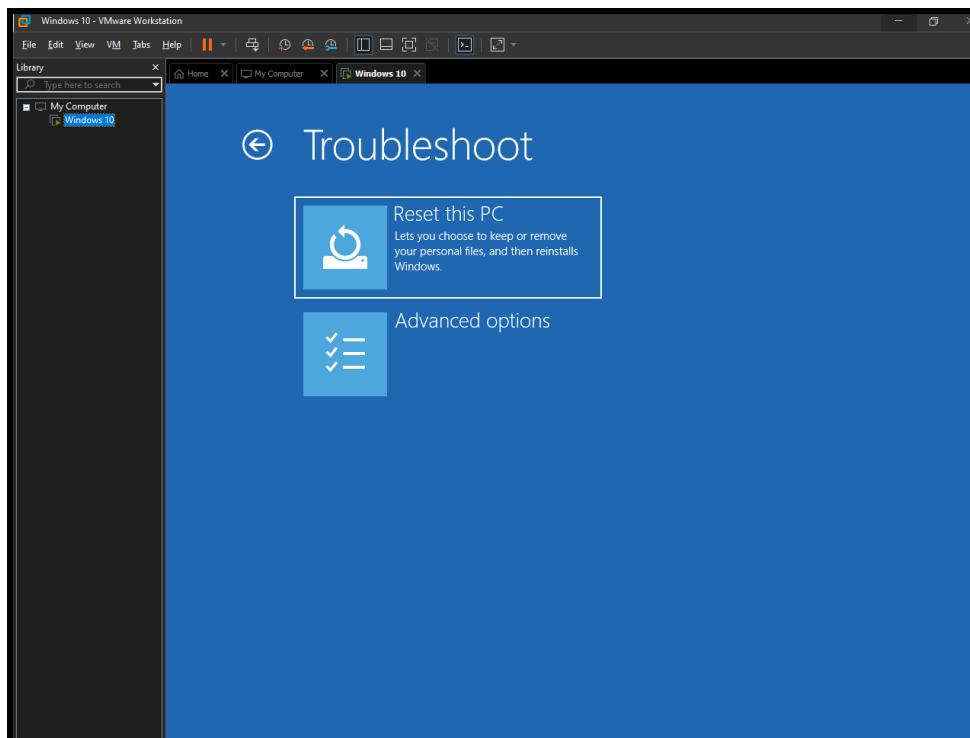


Figure 13 Troubleshooting Menu

Step 5: In the troubleshoot menu, we will choose advanced options.

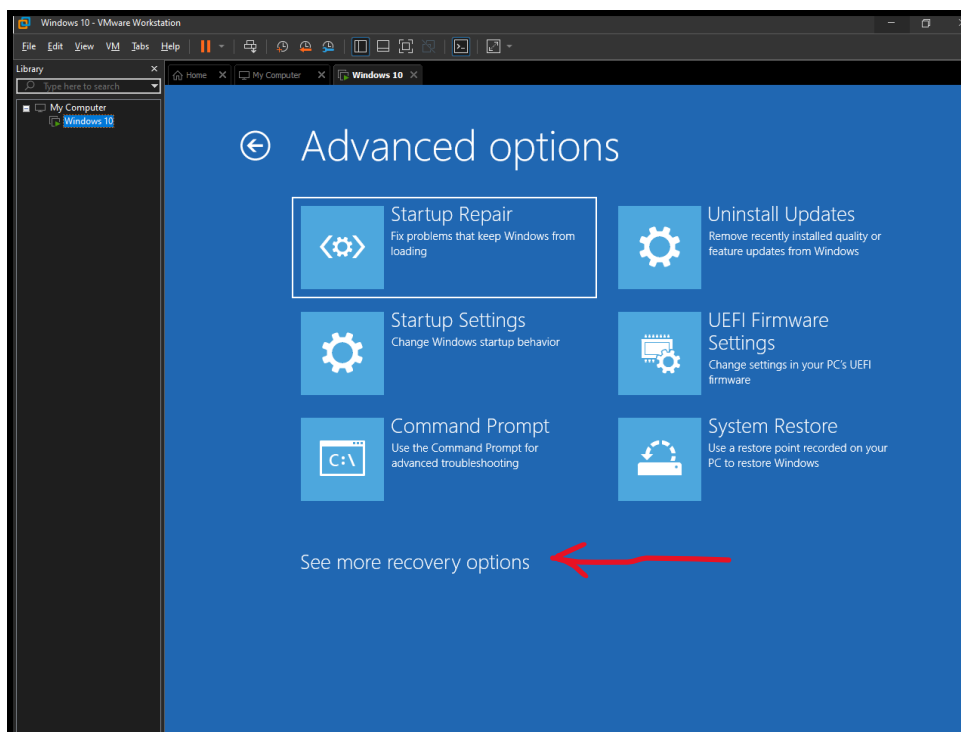


Figure 14 Advanced Options Continued with System Image Recovery Option

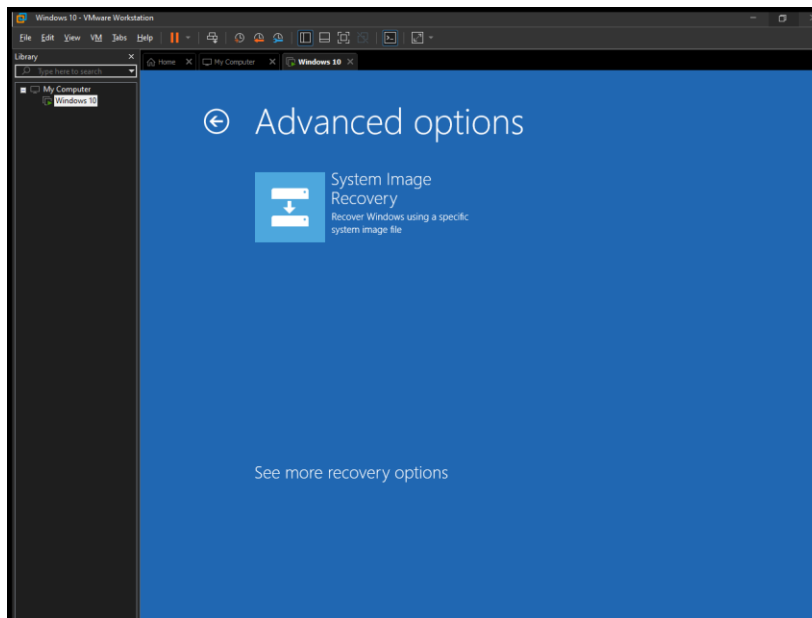


Figure 15 Advanced Options Menu in Troubleshoot Menu

Step 6: In the advanced options, we will multiply options for troubleshooting. Your first instinct would be select the system restore option, but this won't use the system image we created. Instead, we will select the "See more recovery options". The system Image recovery should be the first option you see after looking at more options. This will restart the computer.

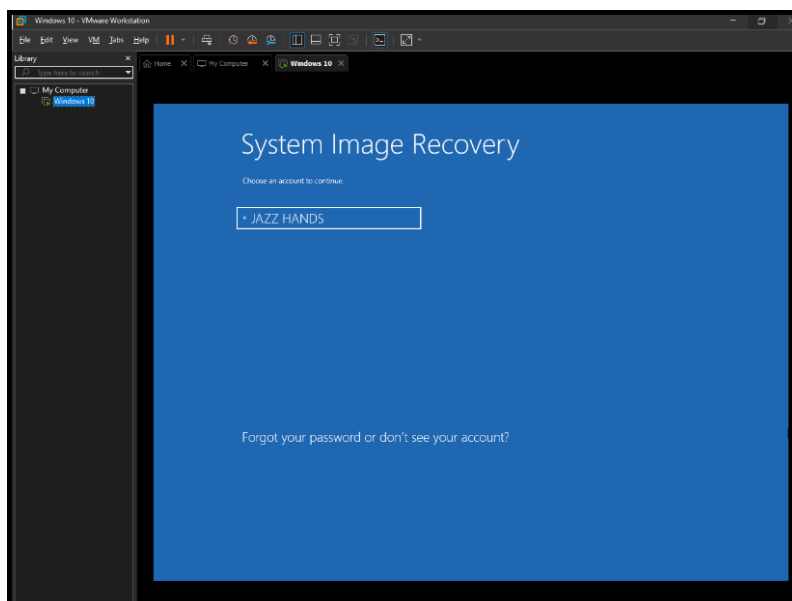


Figure 16 Account Information Input for System Recovery

Step 7: Once the computer has restarted you will have to input your account information before you continue.

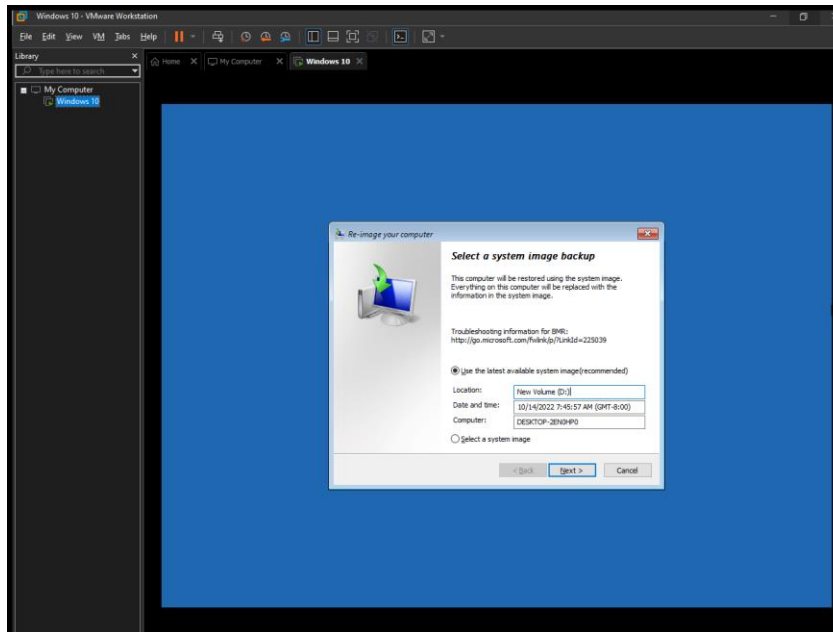


Figure 17 Select System Image Backup Menu

Step 8: You should now see a dialogue box titled re-image your computer. It will show you where the system image is, when it was created, and what computer it was created on, once you've checked to make sure all the correct information is correct, you may continue. It automatically selects the most recent system image, but you can select your own if you wish to use another.

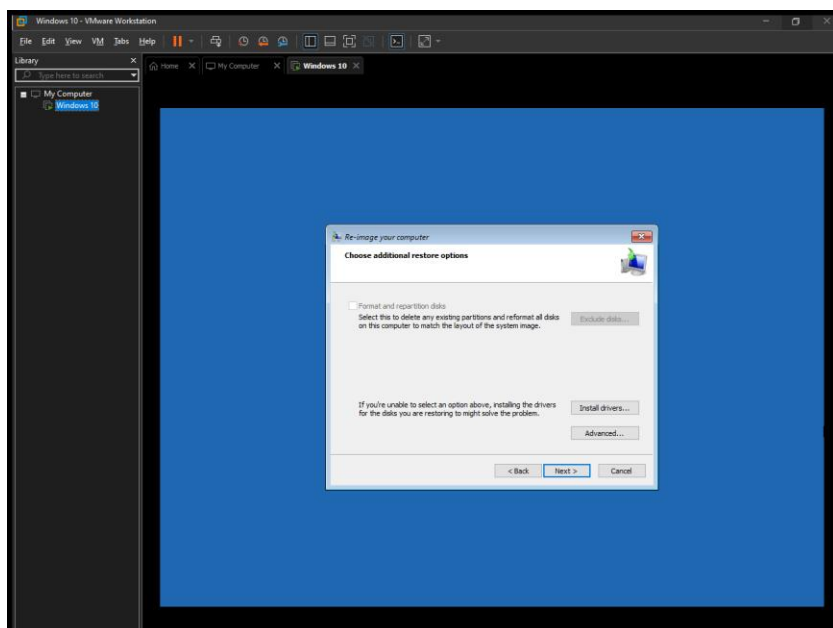


Figure 18 Additional Restoration Options for System Recovery

Step 9: The next dialogue box asks for additional restore options, none of these are necessary, so you can continue.

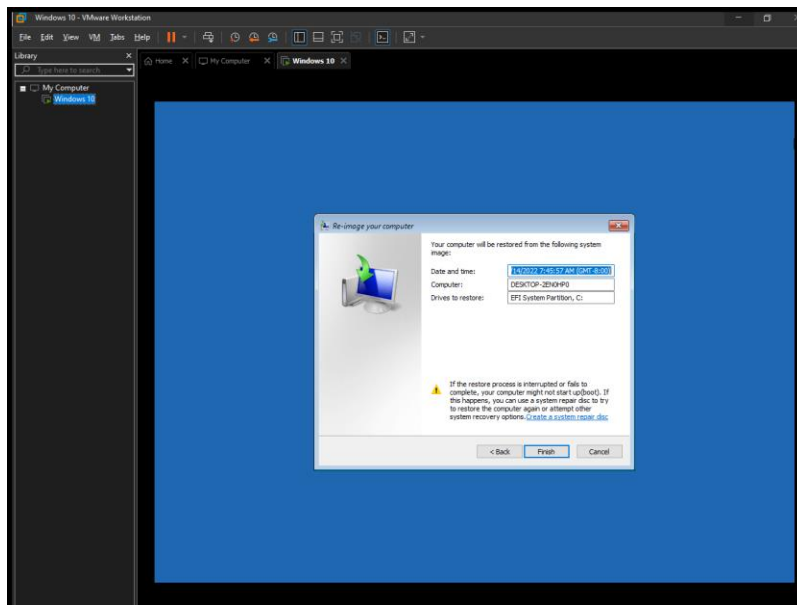


Figure 19 Confirmation Menu for System Image Recovery

Step 10: The final dialogue box is a confirmation that you want to restore the system image. Once you've confirmed twice, the system will attempt to restore all files to the previous system image.

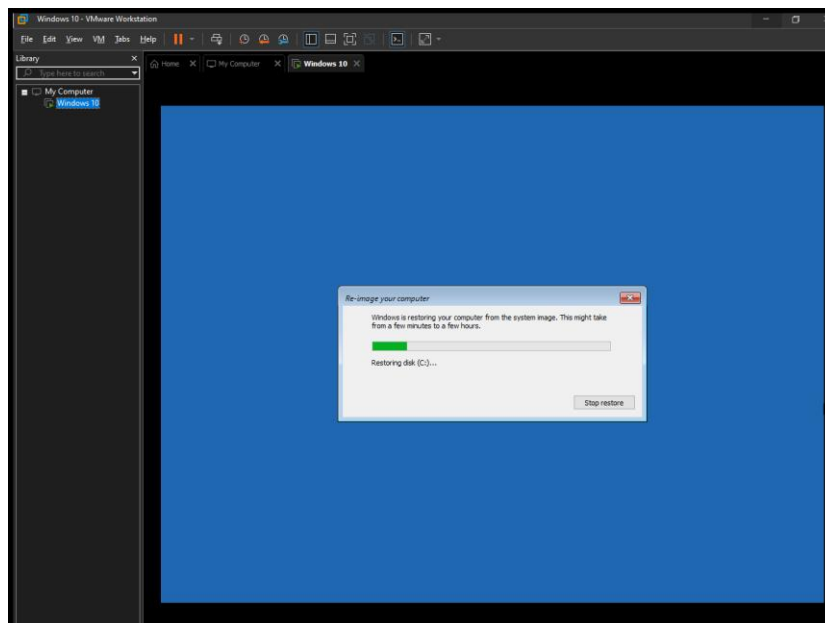


Figure 20 System Image Recovery Loading Screen

Once this loading screen has finished you will have all files on your PC restored to how they were when your system image was created. Always, check to make sure this worked check the state of your files and apps.

Conclusion

You now know how to create a system image for backup and recovery. This knowledge can be very in both a professional and private setting. If you are worried about file lose or corruption as a result downloading software or updates, you can create a system image as backup plan. I hope has been an effective tool for you.