

Assignment 4: Shares, Print Management and Performance Monitoring

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Document Introduction

In this document, I will be walking the reader through modifying the CompanyInc folder structure created in assignment three. I will be walking the reader through assigning shared permissions, performance and maintenance checks, and setting up a printer network. I will be using console mmc to complete most of the steps in this assignment.

Section 1: NTFS Report

In this section, I have run an initial NTFS Report to show all NTFS permissions for all folders in “CompanyInc”.

E:\CompanyInc\ NT AUTHORITY\Authenticated Users:(OI)(CI)(M)

NT AUTHORITY\SYSTEM:(OI)(CI)(F)

BUILTIN\Administrators:(OI)(CI)(F)

E:\CompanyInc\Management DESKTOP-5J6F7RG\Sales:(CI)(RX)

DESKTOP-5J6F7RG\Sales:(OI)(CI)(R)

DESKTOP-5J6F7RG\Marketing:(OI)(CI)(RX)

DESKTOP-5J6F7RG\Management:(OI)(CI)(M)

NT AUTHORITY\Authenticated Users:(I)(OI)(CI)(M)

NT AUTHORITY\SYSTEM:(I)(OI)(CI)(F)

BUILTIN\Administrators:(I)(OI)(CI)(F)

E:\CompanyInc\Marketing DESKTOP-5J6F7RG\Sales:(OI)(CI)(RX,W)

DESKTOP-5J6F7RG\Marketing:(OI)(CI)(M)

DESKTOP-5J6F7RG\Management:(OI)(CI)(RX,W)

NT AUTHORITY\Authenticated Users:(I)(OI)(CI)(M)

NT AUTHORITY\SYSTEM:(I)(OI)(CI)(F)

BUILTIN\Administrators:(I)(OI)(CI)(F)

E:\CompanyInc\Sales NT AUTHORITY\Authenticated Users:(OI)(CI)(M)

NT AUTHORITY\SYSTEM:(OI)(CI)(F)

DESKTOP-5J6F7RG\Sales:(OI)(CI)(M)

DESKTOP-5J6F7RG\Marketing:(OI)(CI)(RX,W)

DESKTOP-5J6F7RG\Management:(OI)(CI)(RX,W)

BUILTIN\Administrators:(OI)(CI)(F)

BUILTIN\Users:(OI)(CI)(RX)

NT AUTHORITY\Authenticated Users:(I)(OI)(CI)(M)

NT AUTHORITY\SYSTEM:(I)(OI)(CI)(F)

BUILTIN\Administrators:(I)(OI)(CI)(F)

E:\CompanyInc\Marketing\Ad Campaign DESKTOP-5J6F7RG\Sales:(OI)(CI)(RX)

DESKTOP-5J6F7RG\Marketing:(OI)(CI)(M)

DESKTOP-5J6F7RG\Management:(OI)(CI)(RX,W)

DESKTOP-5J6F7RG\Sales:(I)(OI)(CI)(RX,W)

DESKTOP-5J6F7RG\Marketing:(I)(OI)(CI)(M)

DESKTOP-5J6F7RG\Management:(I)(OI)(CI)(RX,W)

NT AUTHORITY\Authenticated Users:(I)(OI)(CI)(M)

NT AUTHORITY\SYSTEM:(I)(OI)(CI)(F)

BUILTIN\Administrators:(I)(OI)(CI)(F)

E:\CompanyInc\Marketing\Ad Campaign\Collateral DESKTOP-5J6F7RG\Sales:(I)(OI)(CI)(RX)

DESKTOP-5J6F7RG\Marketing:(I)(OI)(CI)(M)

DESKTOP-5J6F7RG\Management:(I)(OI)(CI)(RX,W)

DESKTOP-5J6F7RG\Sales:(I)(OI)(CI)(RX,W)

NT AUTHORITY\Authenticated Users:(I)(OI)(CI)(M)

NT AUTHORITY\SYSTEM:(I)(OI)(CI)(F)

BUILTIN\Administrators:(I)(OI)(CI)(F)

E:\CompanyInc\Sales\Quarterly DESKTOP-5J6F7RG\Sales:(OI)(CI)(M)

DESKTOP-5J6F7RG\Marketing:(OI)(CI)(RX)

DESKTOP-5J6F7RG\Management:(OI)(CI)(RX,W)

NT AUTHORITY\Authenticated Users:(I)(OI)(CI)(M)

NT AUTHORITY\SYSTEM:(I)(OI)(CI)(F)

DESKTOP-5J6F7RG\Sales:(I)(OI)(CI)(M)

DESKTOP-5J6F7RG\Marketing:(I)(OI)(CI)(RX,W)

DESKTOP-5J6F7RG\Management:(I)(OI)(CI)(RX,W)

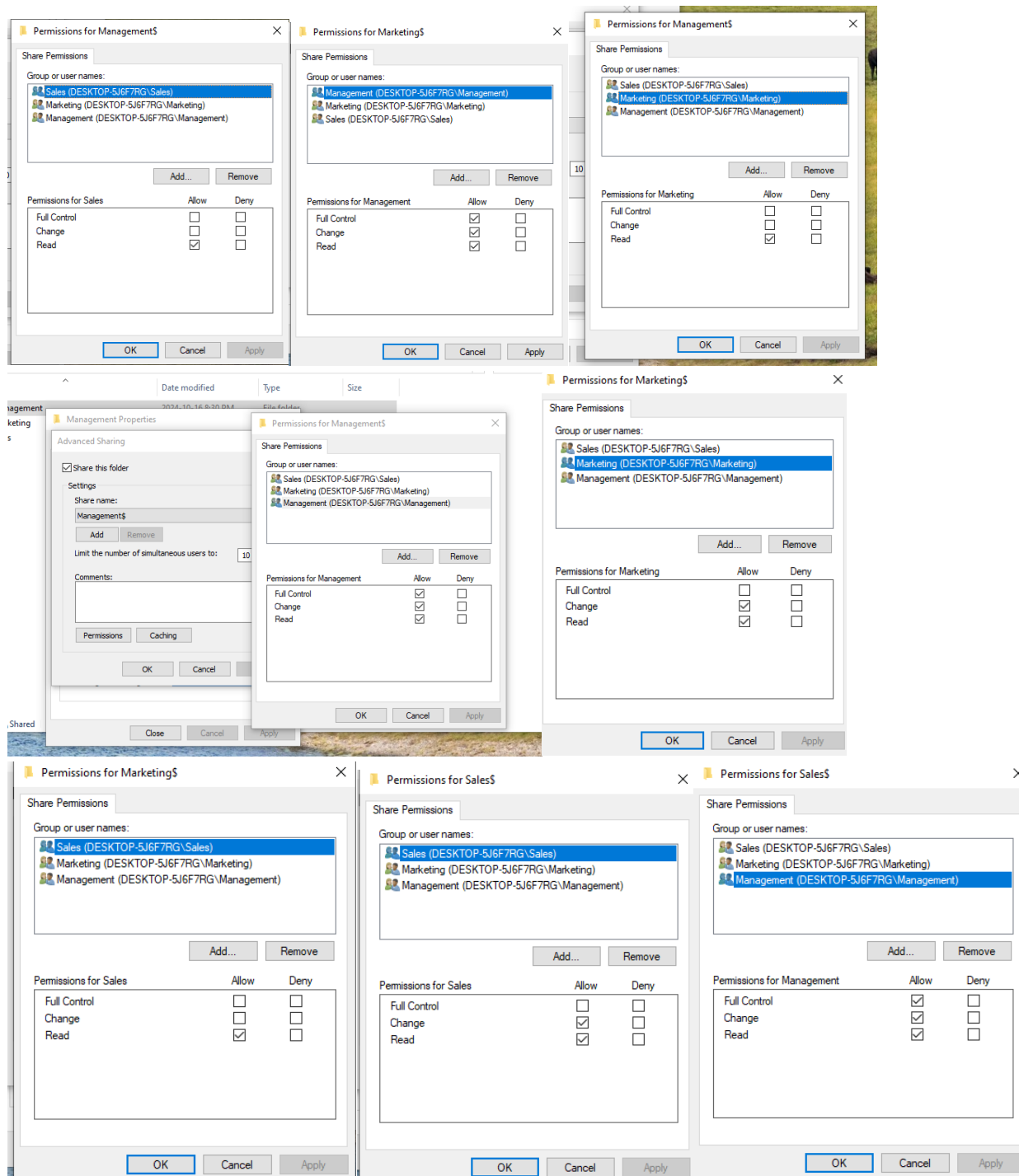
BUILTIN\Administrators:(I)(OI)(CI)(F)

BUILTIN\Users:(I)(OI)(CI)(RX)

Successfully processed 7 files; Failed processing 0 files

This was the results of my NTFS report, it is also included with my assignment in Brightspace.

Section 2: NTFS Permissions Screenshots



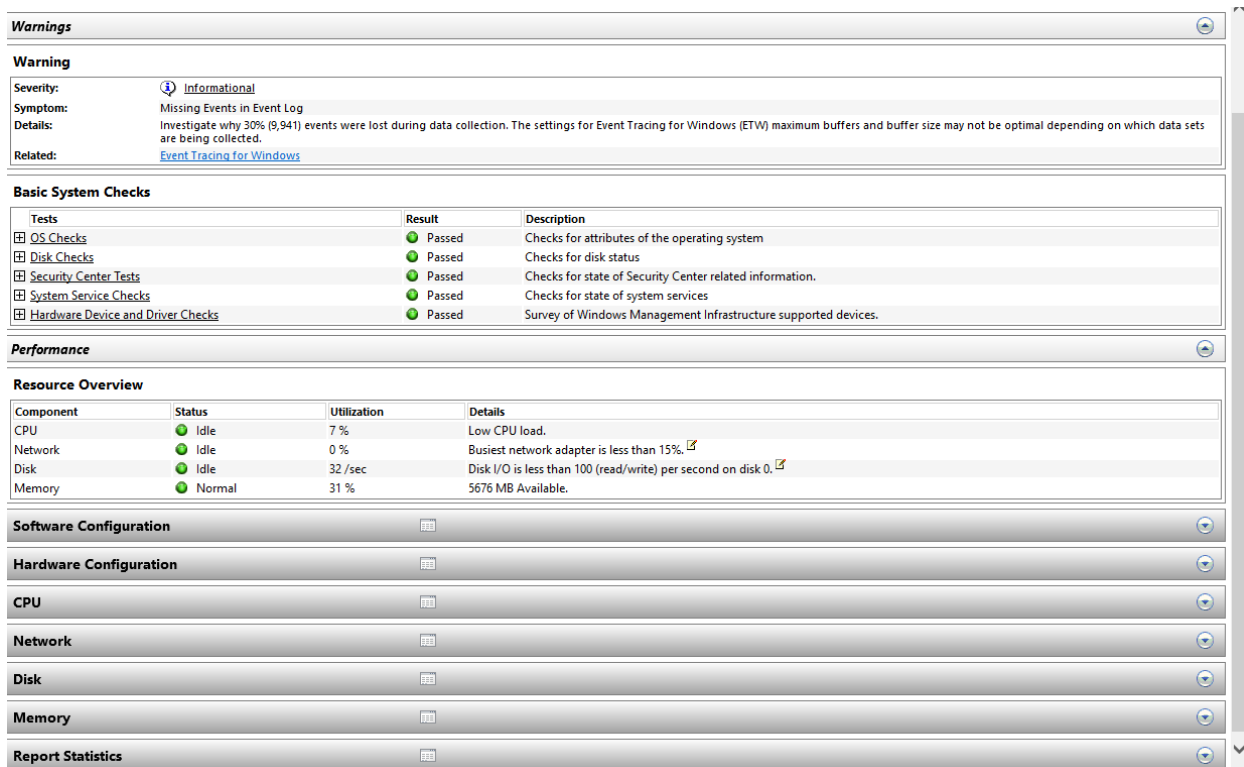
In the screenshots above, I have used advanced sharing to set my share permissions for each of my departmental folders.

Section 3: Permissions Summary Table

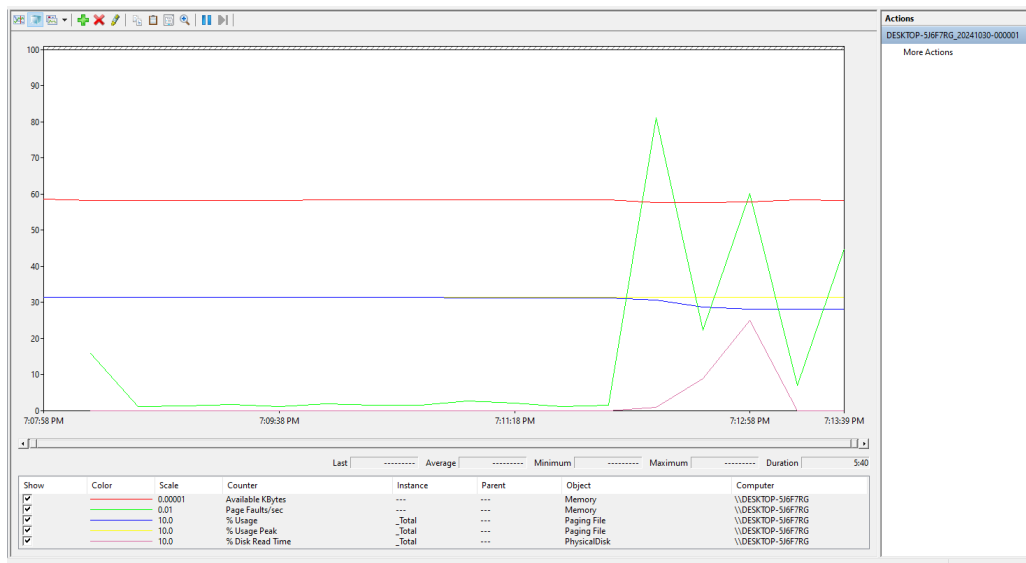
Folder	User or Group	NTFS Permissions	Share Permissions	Effective Access (POLP)
Management Folder	Management Group	m	fc	Fc
	Sales Group	rx	r	Rx
	Marketing Group	rx	r	Rx
Marketing Folder	Management Group	rx	fc	Fc
	Sales Group	rx	r	Rx
	Marketing Group	m	c	m
Sales Folder	Management Group	rx	fc	Fc
	Sales Group	m	r	m
	Marketing Group	rx	c	Rx
Ad Campaign Folder	Management Group	rx	Fc	Fc
	Sales Group	rx	R	Rx
	Marketing Group	m	R	m
Collateral Folder	Management Group	rx	Fc	Fc
	Sales Group	rx	R	Rx
	Marketing Group	m	R	m

Quarterly Folder	Management Group	rx	fc	fc
	Sales Group	m	r	m
	Marketing Group	rx	c	Rx

Section 4: Performance Monitor Report



In the screenshot above, I have done my first data collector set using the performance monitor snap in.



In the screenshot above, I have created our new custom data collector set and ran it for at least two minutes.

Section 5: Maintenance Task

Automatic Maintenance

Windows automatically runs scheduled maintenance on a daily schedule when you're not using your computer.

This includes tasks such as software updates, security scanning, and system diagnostics. This maintenance will run daily if you aren't using your computer at the time you've chosen. If your computer is in use at the scheduled time or maintenance is behind schedule, Automatic Maintenance will run the next time the computer is not being used.

Automatic Maintenance

Run maintenance tasks daily at 3:00 AM

☐ Allow scheduled maintenance to wake up my computer at the scheduled time

In the screenshot above, we have changed our maintenance settings using the Security and Maintenance Centre.

Section 6: Printer Task

Update for Windows 10	Ready	0	DESKTOP-3J0F...	MICROSOFT SOFTWARE PRINTER DRIVER	10.0.19041.1	Type 4
OSYS1020_Printer	Ready	0	DESKTOP-5J6F...	HP Universal Printing PCL 6	10.0.19041.1	Type 4

In this section, we have installed a HP printer driver, as well as adding a port for our printer to connect to. We then added a new printer named OSYS1020_printer.

Section 7: Dealing With Errors

Number of events: 503

Level	Date and Time	Source	Event ID	Task Category
Error	2024-10-30 7:40:41 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:41 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:40 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:40 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:40 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:40 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:40 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:40 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:39 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:39 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:39 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:39 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:39 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:38 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:38 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:40:38 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:32:30 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:32:30 PM	DeviceSetupMana...	131	None
Error	2024-10-30 7:32:30 PM	DeviceSetupMana...	131	None

Event 131, DeviceSetupManager

General Details

Metadata staging failed, result=0x80070490 for container '{D4654842-33F5-4D0A-3577-2AADCD07D068}'

Log Name: Microsoft-Windows-DeviceSetupManager/Admin
Source: DeviceSetupManager Logged: 2024-10-30 7:40:41 PM
Event ID: 131 Task Category: None
Level: Error Keywords:
User: SYSTEM Computer: DESKTOP-5J6F7RG
OpCode: Info

In this screenshot, we have went into the event viewer snap-in, from there we got a summary of errors, and have expanded the view to see all instances. We have 503 numbers of events.

We then chose a specific error, and copied the details into a text file called Errors.txt. This is included below as well as in my Brightspace submission.

Log Name: System

Source: Microsoft-Windows-TPM-WMI

Date: 2024-10-30 6:04:46 PM

Event ID: 1796

Task Category: None

Level: Error

Keywords:

User: SYSTEM

Computer: DESKTOP-5J6F7RG

Description:

The Secure Boot update failed to update a Secure Boot variable with error Secure Boot is not enabled on this machine..
For more information, please see <https://go.microsoft.com/fwlink/?linkid=2169931>

Event Xml:

```
<Event xmlns="http://schemas.microsoft.com/win/2004/08/events/event">

  <System>

    <Provider Name="Microsoft-Windows-TPM-WMI" Guid="{7d5387b0-cbe0-11da-a94d-0800200c9a66}" />

    <EventID>1796</EventID>

    <Version>0</Version>

    <Level>2</Level>

    <Task>0</Task>

    <Opcode>0</Opcode>

    <Keywords>0x8000000000000000</Keywords>

    <TimeCreated SystemTime="2024-10-30T22:04:46.3690790Z" />

    <EventRecordID>1497</EventRecordID>

    <Correlation />

    <Execution ProcessID="8252" ThreadID="10568" />

    <Channel>System</Channel>

    <Computer>DESKTOP-5J6F7RG</Computer>

    <Security UserID="S-1-5-18" />

  </System>

  <EventData>

    <Data Name="HResult">-2147020471</Data>

  </EventData>

</Event>
```

Section 8: Answers to Questions

Question 1: What is the Error ID you selected and what is a symptom of this error?

I chose the error #1796, which happens when an unexpected error happens during a secure boot update. The symptoms of this error are intermittent freezes, crashes, BSOD issues and even blue screen issues. Error #1796 is an urgent problem which needs a quick solution.

Question 2: What is a possible cause of this error?

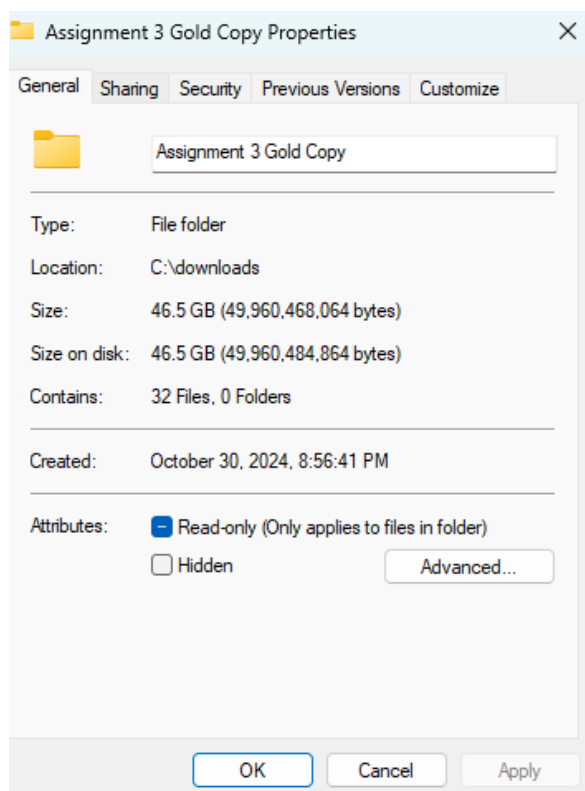
There are a few different things that can cause error #1796. Error #1796 can be caused while installing printer drivers, if the installer is not able to start and stop the Windows spooler service, error #1796 will happen. Error #1796 can also be caused during a secure boot update. If an error happens that isn't covered by other events during a update, you will receive error #1796. If this is the cause, Windows will attempt to apply the update the next time the system restarts but is not always successful.

Question 3: What is a possible solution?

If the error was caused by installing printer drivers, you can open the windows registry, go to \system\control\print\monitors\ NDDigital nddPrint Releaser Port, and delete the port. Once you restart the printer service, the error should be fixed.

If the error was caused by an error during a secure boot update, Windows will automatically try to repair it the next time your machine resets, if this doesn't work you can try a few things such as removing any new hardware, starting your pc in safe mode, making sure you have enough hard drive space, installing the latest Windows Updates or even trying the Blue Screen Troubleshooter.

Section 9: Gold Copy Documentation



In the screenshot above, we have backed up our VM and created a gold copy, it is stored elsewhere then the original VM.