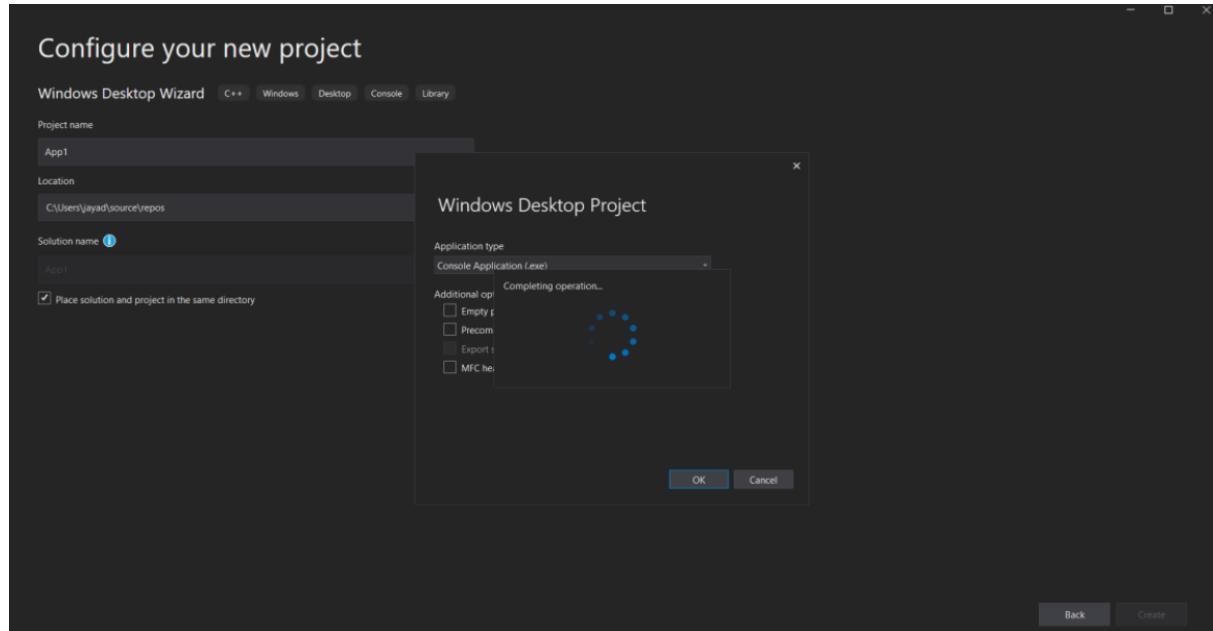


NAME:K.Jai Shankar

REG.NO: 18BCB7075

After installing visual studio:



Generating .exe:

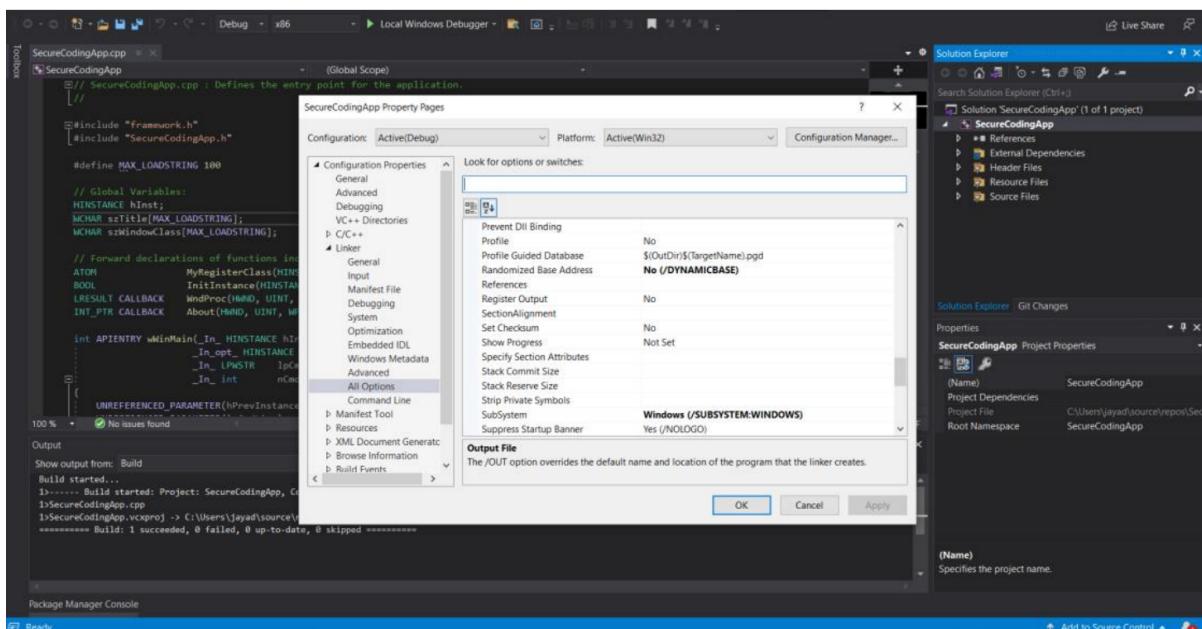
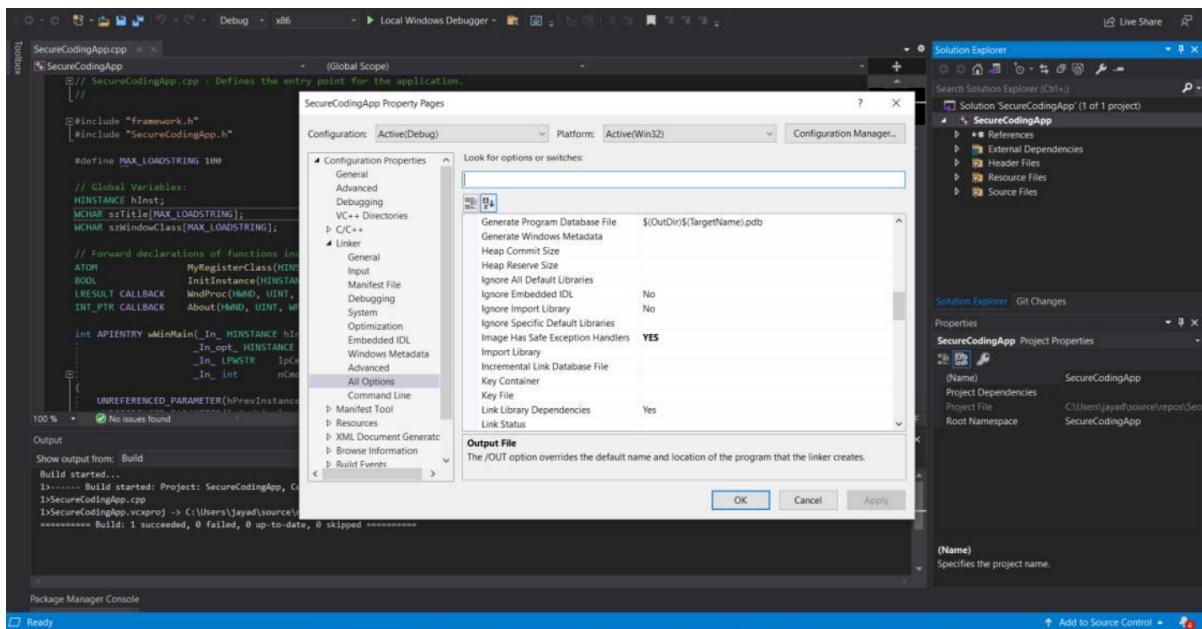
The screenshot shows the Microsoft Visual Studio interface with the following windows open:

- Code Editor:** Displays the `SecureCodingApp.cpp` file. The code includes standard Windows API declarations and a main function.
- Solution Explorer:** Shows the project structure for "SecureCodingApp" with files like `SecureCodingApp.h`, `SecureCodingApp.cpp`, and `Resource.h`.
- Properties:** The "Project Properties" page is visible, specifically the "SecureCodingApp" section under "Properties".
- Output:** Shows the build log indicating a successful build.
- Package Manager Console:** A small window at the bottom left.

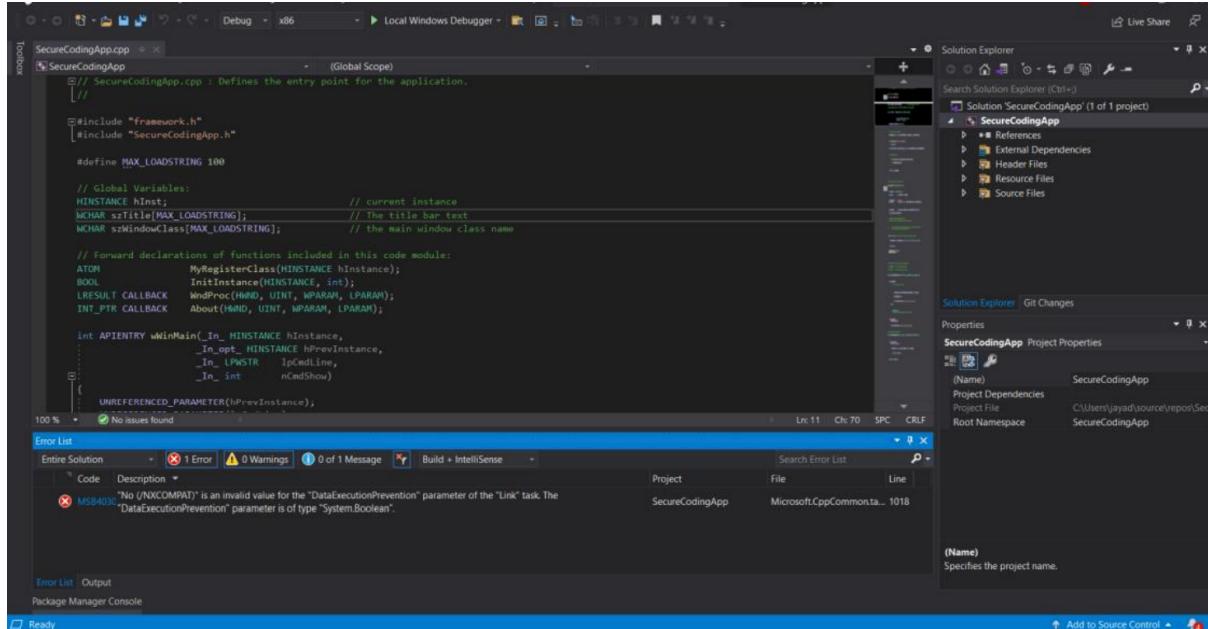
## Disabling DER and ASLR:

The screenshot shows the Microsoft Visual Studio interface with the following windows open:

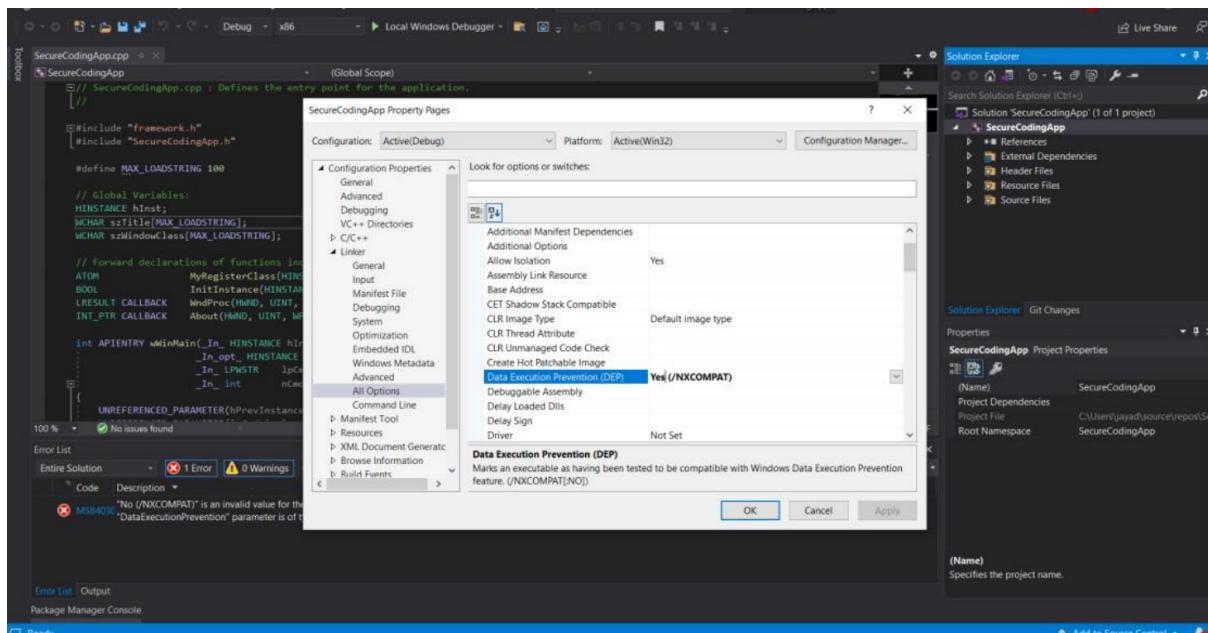
- Code Editor:** Displays the `SecureCodingApp.cpp` file.
- Solution Explorer:** Shows the project structure for "SecureCodingApp".
- Properties:** The "Project Properties" page is visible, specifically the "SecureCodingApp" section under "Properties".
- Linker Properties Dialog:** A modal dialog is open over the properties page, showing the "Linker" configuration tab. In the "Output File" section, the value `No (/NXCOMPAT)` is selected for the "Output File" dropdown.
- Output:** Shows the build log indicating a successful build.
- Package Manager Console:** A small window at the bottom left.

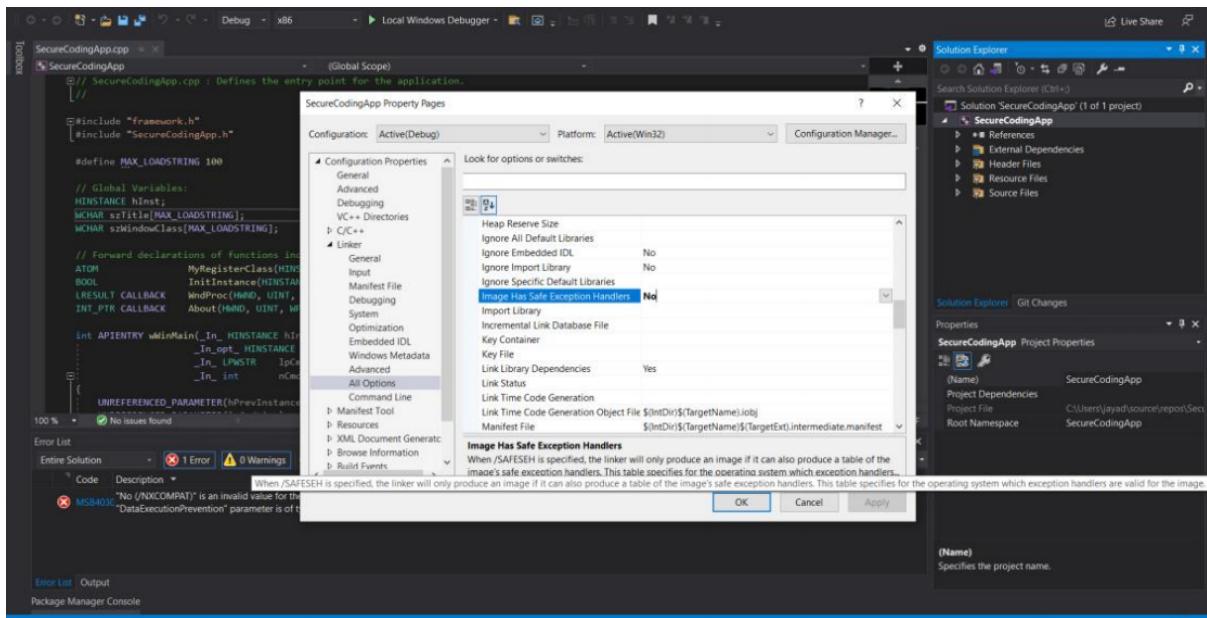
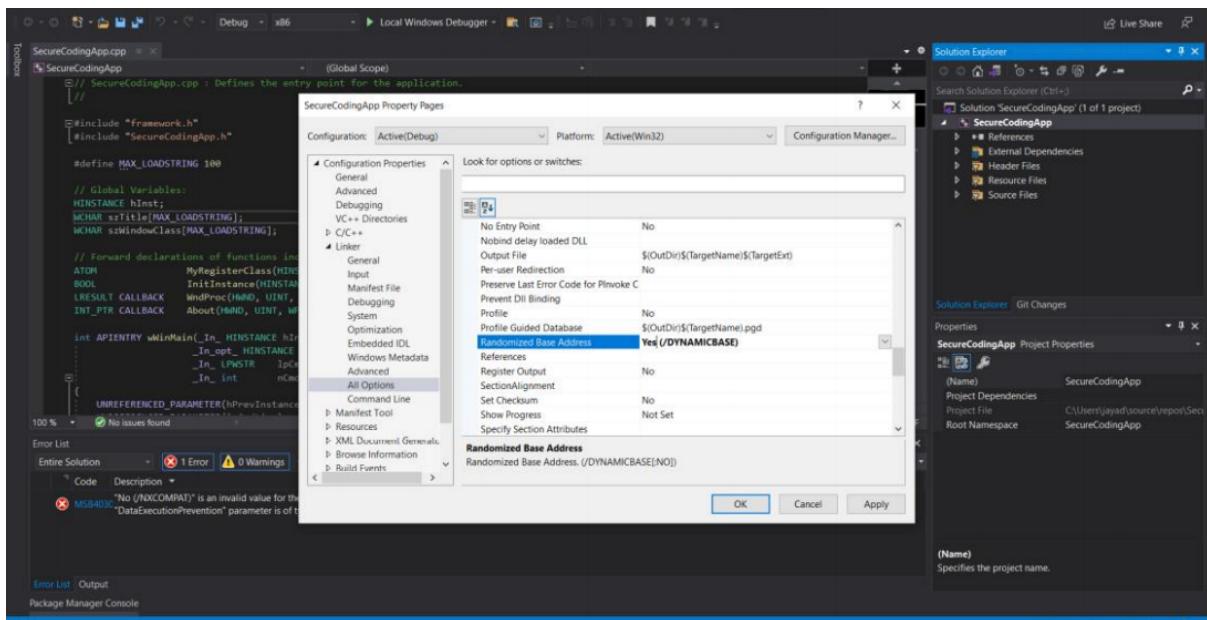


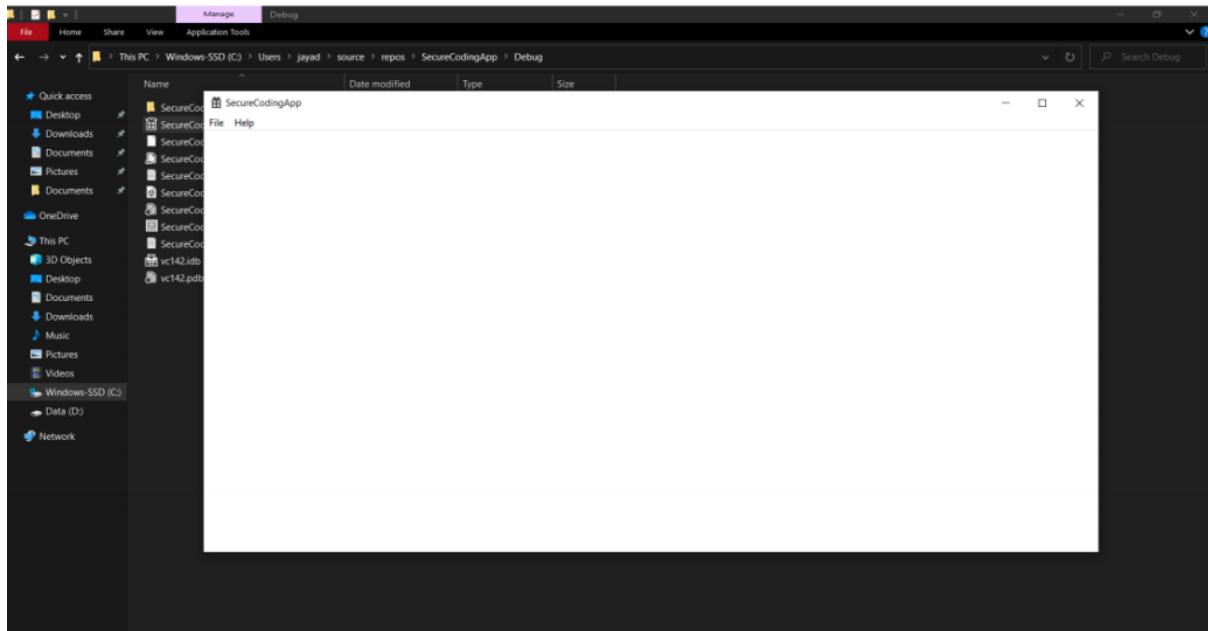
.exe file not created



After enabling and running the app:







Downloading, installing and analysing through Process Explorer:

Process	CPU	Private Bytes	Working Set	PID	Description	Company Name
Registry	17,376 K	1,22,088 K	148			
System Idle Process	84.09	60 K	8 K	0		
System	1.45	208 K	7,324 K	4		
Interrupts	1.04	0 K	0 K	n/a	Hardware Interrupts and DPCs	
smss.exe	< 0.01	1,016 K	1,61,960 K	2840		
Memory Compression	< 0.01	2,164 K	5,980 K	848		
csrss.exe	< 0.01	1,628 K	6,184 K	940		
wminit.exe	0.01	6,168 K	10,548 K	1016		
services.exe	< 0.01	13,612 K	32,824 K	1044	Host Process for Windows S...	Microsoft Corporation
svchost.exe	< 0.01	3,892 K	10,480 K	5832		
smss.exe	< 0.01	2,728 K	8,828 K	10992		
dihostexe	< 0.01	3,964 K	9,944 K	11312		
StartMenuExperienceHost.exe	< 0.01	99,080 K	86,304 K	17144		
RuntimeBroker.exe	< 0.01	7,844 K	31,112 K	17316	Runtime Broker	Microsoft Corporation
SearchApp.exe	Susp...	2,99,368 K	1,06,648 K	14132	Search application	Microsoft Corporation
RuntimeBroker.exe	< 0.01	19,548 K	51,564 K	13972	Runtime Broker	Microsoft Corporation
YourPhone.exe	Susp...	81,508 K	2,688 K	16744	YourPhone	Microsoft Corporation
SettingSyncHost.exe	Susp...	4,004 K	6,236 K	17052	Host Process for Setting Sync...	Microsoft Corporation
RuntimeBroker.exe	Susp...	7,376 K	27,524 K	11280	Runtime Broker	Microsoft Corporation
RuntimeBroker.exe	Susp...	4,712 K	20,452 K	2916	Runtime Broker	Microsoft Corporation
SearchApp.exe	Susp...	2,49,428 K	88,588 K	5428	Search application	Microsoft Corporation
dihostexe	Susp...	7,040 K	15,836 K	18656	COM Surrogate	Microsoft Corporation
unsecapp.exe	Susp...	1,628 K	7,428 K	13226	Sink to receive asynchronous...	Microsoft Corporation
Cortana.exe	Susp...	89,280 K	72,160 K	12768	Cortana	Microsoft Corporation
RuntimeBroker.exe	Susp...	5,284 K	26,796 K	8260	Runtime Broker	Microsoft Corporation
ShellExperienceHost.exe	Susp...	82,728 K	70,184 K	554	Windows Shell Experience H...	Microsoft Corporation
RuntimeBroker.exe	Susp...	7,712 K	29,080 K	9112	Runtime Broker	Microsoft Corporation
SystemSettingsBroker.exe	Susp...	5,680 K	23,100 K	19288	System Settings Broker	Microsoft Corporation
TextInputHost.exe	Susp...	65,708 K	47,384 K	18688		Microsoft Corporation
ApplicationFrameHost.exe	Susp...	37,932 K	42,016 K	17844	Application Frame Host	Microsoft Corporation
WinStorApp.exe	Susp...	1,05,276 K	2,728 K	2456	Store	Microsoft Corporation
RuntimeBroker.exe	Susp...	7,148 K	16,356 K	9180	Runtime Broker	Microsoft Corporation
UserOOBEBroker.exe	Susp...	2,136 K	8,832 K	9968	User OOBE Broker	Microsoft Corporation
MsOutlook.exe	Susp...	99,628 K	2,784 K	2812	Microsoft Outlook	Microsoft Corporation
RuntimeBroker.exe	Susp...	3,148 K	18,680 K	9440	Runtime Broker	Microsoft Corporation
HvTse.exe	Susp...	12,288 K	2,312 K	8120	Microsoft Outlook Communic...	Microsoft Corporation
LockApp.exe	Susp...	67,112 K	44,336 K	11244	LockApp.exe	Microsoft Corporation
RuntimeBroker.exe	Susp...	10,324 K	33,300 K	4440	Runtime Broker	Microsoft Corporation
CompPkgSrv.exe	Susp...	1,516 K	9,344 K	10508	Component Package Suppor...	Microsoft Corporation
SystemSettings.exe	Susp...	77,312 K	67,212 K	704	Settings	Microsoft Corporation
smartscreen.exe	Susp...	8,244 K	24,492 K	15492	Windows Defender SmartScr...	Microsoft Corporation
TiWorker.exe	Susp...	31,992 K	37,788 K	1920		
WUDFHHost.exe	Susp...	8,072 K	14,108 K	1116		
syghost.exe	< 0.01	10,252 K	18,000 K	1168	Host Process for Windows S...	Microsoft Corporation

File	Options	View	Process	Find	Users	Help
Process	CPU	Private Bytes	Working Set	PID	Description	Company Name
SearchProtocolHost.exe		1,884 K	8,380 K	15976	Microsoft Windows Search Pr...	Microsoft Corporation
svchost.exe		10,608 K	20,176 K	11992	Host Process for Windows S...	Microsoft Corporation
SecurityHealthService.exe		3,872 K	13,648 K	9772	Windows Security Health Ser...	Microsoft Corporation
svchost.exe		2,456 K	10,872 K	11724	Host Process for Windows S...	Microsoft Corporation
svchost.exe		1,440 K	5,672 K	12016	Host Process for Windows S...	Microsoft Corporation
svchost.exe	0.01	4,772 K	10,164 K	12088	Host Process for Windows S...	Microsoft Corporation
svchost.exe		2,180 K	11,140 K	4908	Host Process for Windows S...	Microsoft Corporation
svchost.exe		2,332 K	13,404 K	12404	Host Process for Windows S...	Microsoft Corporation
svchost.exe		6,864 K	20,236 K	13328	Host Process for Windows S...	Microsoft Corporation
svchost.exe		3,052 K	11,776 K	13548	Host Process for Windows S...	Microsoft Corporation
svchost.exe		1,844 K	7,432 K	9172	Host Process for Windows S...	Microsoft Corporation
svchost.exe		5,300 K	17,624 K	632	Host Process for Windows S...	Microsoft Corporation
svchost.exe		6,036 K	22,632 K	13852	Host Process for Windows S...	Microsoft Corporation
svchost.exe		3,400 K	15,184 K	13884	Host Process for Windows S...	Microsoft Corporation
svchost.exe	< 0.01	3,000 K	12,104 K	16352	Host Process for Windows S...	Microsoft Corporation
SgmBroker.exe		6,372 K	8,332 K	14556	System Guard Runtime Monit...	Microsoft Corporation
svchost.exe		2,908 K	11,572 K	5340	Host Process for Windows S...	Microsoft Corporation
svchost.exe		5,088 K	22,012 K	13560	Host Process for Windows S...	Microsoft Corporation
svchost.exe		3,356 K	11,348 K	2216	Host Process for Windows S...	Microsoft Corporation
svchost.exe		4,328 K	15,316 K	12964	Host Process for Windows S...	Microsoft Corporation
svchost.exe		1,784 K	7,768 K	8804	Host Process for Windows S...	Microsoft Corporation
svchost.exe		3,500 K	11,672 K	22336	Host Process for Windows S...	Microsoft Corporation
svchost.exe		9,044 K	22,072 K	1016	Local Security Authority Proc...	Microsoft Corporation
lsass.exe		1,468 K	2,576 K	1036		
fontdrvhost.exe		2,688 K	11,656 K	1196		
winlogon.exe		4,224 K	7,076 K	1292		
fontdrvhost.exe		1,24,336 K	67,652 K	1360		
dwm.exe	0.27					
explorer.exe	0.04	2,71,424 K	23,01,208 K	7656	Windows Explorer	Microsoft Corporation
SecurityHealthSystray.exe		1,984 K	9,256 K	1596	Windows Security notification...	Microsoft Corporation
RtkAuditUserService64.exe		2,348 K	10,144 K	2208	Realtek HD Audio Universal...	Realtek Semiconductor
vgtray.exe	< 0.01	1,340 K	6,492 K	4388	Vanguard tray notification.	Riot Games, Inc.
OneDrive.exe	0.01	41,268 K	50,800 K	12308	Microsoft OneDrive	Microsoft Corporation
utility.exe		3,392 K	13,352 K	13056	This utility controls special ke...	Lenovo Group Ltd.
WINWORD.EXE		1,32,916 K	1,38,880 K	2926	Microsoft Word	Microsoft Corporation
WINWORD.EXE	0.01	1,26,296 K	1,12,372 K	2724	Microsoft Word	Microsoft Corporation
devenv.exe	0.51	3,16,116 K	3,99,000 K	18048	Microsoft Visual Studio 2019	Microsoft Corporation
PerfWatson2.exe	0.02	48,936 K	69,794 K	11292	PerfWatson2.exe	Microsoft Corporation
Microsoft.ServiceHub.Contr...		42,568 K	57,976 K	2624	Microsoft ServiceHub Control	Microsoft
FWF.exe	< 0.01	76,220 K	87,892 K	13429	Windows Firewall Monitor	Microsoft

