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Sandbox Report

File: psqlodbc_x64.msi

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SHA-256 a56b6a093fe39ca ... 11e8c96380c...	Submitted by prashant.deshmukh@fisglobal.com	Discovered [Icons]	Threat level Suspicious	Threat score 75/100
Detonation environment Windows 10 64, Professional, 10.0 (build 16299)	Network settings Default network connectivity	Timestamp Feb. 26, 2024 21:01:10		

- Static analysis
- Dynamic analysis
- Intelligence
- MITRE ATT&CK

Behavioral threat indicators

Suspicious

Contains ability to create directories

Source Hybrid Analysis Technology

Relevance 3/10

MITRE ATT&CK [Local Data Staging](#) T1074.001

Details CreateDirectoryW@KERNEL32.dll at 22779-1321-0000000180010E40

Drops DLL executable files (possible DLL search order hijacking)

Source Binary File

Relevance 5/10

MITRE ATT&CK [DLL Search Order Hijacking](#) T1574.001

- Behavioral threat indicators
- Process details
- Screenshots
- Extracted strings
- Extracted files

Details

[%PROGRAMFILES%\psqlODBC\1600\bin\msvcpl40.dll]- [targetUID: 00000000-00007100] "psqlodbc35w.dll" has type "PE32+ executable (DLL) (GUI) x86-64 for MS Windows"- Location: [%PROGRAMFILES%\psqlODBC\1600\bin\psqlodbc35w.dll]- [targetUID: 00000000-00007100] "psqlodbc30a.dll" has type "PE32+ executable (DLL) (GUI) x86-64 for MS Windows"- Location: [%PROGRAMFILES%\psqlODBC\1600\bin\psqlodbc30a.dll]- [targetUID: 00000000-00007100] "libintl-9.dll" has type "PE32+ executable (DLL) (console) x86-64 for MS Windows"- Location: [%PROGRAMFILES%\psqlODBC\1600\bin\libintl-9.dll]- [targetUID: 00000000-00007100] "libpq.dll" has type "PE32+ executable (DLL) (console) x86-64 for MS Windows"- Location: [%PROGRAMFILES%\psqlODBC\1600\bin\libpq.dll]- [targetUID: 00000000-00007100] "vcruntime140.dll" has type "PE32+ executable (DLL) (console) x86-64 for MS Windows"- Location: [%PROGRAMFILES%\psqlODBC\1600\bin\vcruntime140.dll]- [targetUID: 00000000-00007100] "libwinpthread-1.dll" has type "PE32+ executable (DLL) (console) x86-64 (stripped to external PDB) for MS Windows"- Location: [%PROGRAMFILES%\psqlODBC\1600\bin\libwinpthread-1.dll]- [targetUID: 00000000-00007100] "pgxalib.dll" has type "PE32+ executable (DLL) (GUI) x86-64 for MS Windows"- Location: [%PROGRAMFILES%\psqlODBC\1600\bin\pgxalib.dll]- [targetUID: 00000000-00007100] "pgenlista.dll" has type "PE32+ executable (DLL) (GUI)

Creates new processes

Source API Call

Relevance 8/10

MITRE ATT&CK [Native API](#) T1106

Details "msiexec.exe" is creating a new process (Name: "C:\Windows\System32\MsiExec.exe")

Calls an API typically used to set the date and time of the file

Source API Call

Relevance 2/10

MITRE ATT&CK [Timestomp](#) T1070.006

Details "msiexec.exe" called "SetFileTime" on file C:\Windows\Installer\10e58f.msi (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program Files\psqlODBC\1600\bin\libcrypto-3-x64.dll (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program Files\psqlODBC\1600\bin\libconv-2.dll (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program Files\psqlODBC\1600\bin\libintl-9.dll (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program Files\psqlODBC\1600\bin\libpq.dll (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program Files\psqlODBC\1600\bin\libssl-3-x64.dll (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program Files\psqlODBC\1600\bin\libwinpthread-1.dll (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program Files\psqlODBC\1600\bin\msvcpl40.dll (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program Files\psqlODBC\1600\bin\pgenlist.dll (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program Files\psqlODBC\1600\bin\pgenlist.pdb (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program Files\psqlODBC\1600\bin\pgenlista.dll (UID: 00000000-00007100) "msiexec.exe" called "SetFileTime" on file C:\Program

Writes a PE file header to disc

Source API Call

Uses a Windows Living Off The Land Binaries (LOL bins) ^

Source Monitored Target

Relevance 3/10

Details Process "%WINDIR%\system32\msiexec.exe" launched with commandline "/V" (UID: 00000000-00007100) Process "%WINDIR%\System32\MsiExec.exe" launched with commandline "-Embedding F2B06C6509E020A304EBEA0E5E4D91F4" (UID: 00000000-00000752) 📄

Tries to save executable or command in registry ^

Source Registry Access

Relevance 7/10

MITRE ATT&CK [Boot or Logon Autostart Execution](#) T1547

Details "msiexec.exe" (Access type: "SETVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\USERDATA\S-1-5-18\PRODUCTS\8F07C821C47E7E943B1FB0C8CAA14F5C\INSTALLPROPERTIES"; Key: "MODIFYPATH"; Value: "MsiExec.exe /I{128C70F8-E74C-49E7-B3F1-0B8CAC1AF4C5}") "msiexec.exe" (Access type: "SETVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\USERDATA\S-1-5-18\PRODUCTS\8F07C821C47E7E943B1FB0C8CAA14F5C\INSTALLPROPERTIES"; Key: "UNINSTALLSTRING"; Value: "MsiExec.exe /I{128C70F8-E74C-49E7-B3F1-0B8CAC1AF4C5}") "msiexec.exe" (Access type: "SETVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\UNINSTALL\{128C70F8-E74C-49E7-B3F1-0B8CAC1AF4C5}"; Key: "MODIFYPATH"; Value: "MsiExec.exe /I{128C70F8-E74C-49E7-B3F1-0B8CAC1AF4C5}") "msiexec.exe" (Access type: "SETVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\UNINSTALL\{128C70F8-E74C-49E7-B3F1-0B8CAC1AF4C5}"; Key: "UNINSTALLSTRING"; Value: "MsiExec.exe /I{128C70F8-E74C-49E7-B3F1-0B8CAC1AF4C5}") 📄

Looks up many procedures within the same disassembly stream (often used to hide usage) ^

Source Hybrid Analysis Technology

Relevance 10/10









MITRE ATT&CK T1027.007

Details Found 33 calls to GetProcAddress@KERNEL32.dll at 22779-2329-0000000180036664 📄

Queries the installation properties of user installed products ^

Source Registry Access

Relevance 10/10

Details	"msiexec.exe" (Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\USERDATA\S-1-5-18\PRODUCTS\8F07C821C47E7E943B1FB0C8CAA14F5C\INSTALLPROPERTIES") "msiexec.exe" (Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\USERDATA\S-1-5-18\PRODUCTS\8F07C821C47E7E943B1FB0C8CAA14F5C\INSTALLPROPERTIES"; Key: "AUTHORIZEDCDFPREFIX") "msiexec.exe" (Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\USERDATA\S-1-5-18\PRODUCTS\8F07C821C47E7E943B1FB0C8CAA14F5C\INSTALLPROPERTIES"; Key: "COMMENTS") "msiexec.exe" (Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\USERDATA\S-1-5-18\PRODUCTS\8F07C821C47E7E943B1FB0C8CAA14F5C\INSTALLPROPERTIES"; Key: "CONTACT") "msiexec.exe" (Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\USERDATA\S-1-5-18\PRODUCTS\8F07C821C47E7E943B1FB0C8CAA14F5C\INSTALLPROPERTIES"; Key: "DISPLAYVERSION") "msiexec.exe" (Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\USERDATA\S-1-5-18\PRODUCTS\8F07C821C47E7E943B1FB0C8CAA14F5C\INSTALLPROPERTIES")	 
	Contains ability to retrieve information about the current system	
Source	Hybrid Analysis Technology	
Relevance	4/10	
MITRE ATT&CK	System Information Discovery T1082	
Details	GetSystemInfo@KERNEL32.dll at 22779-2752-000000018004DE00	
	Calls an API typically used to query local/system time as file time	
Source	API Call	
Relevance	3/10	
MITRE ATT&CK	Timestomp T1070.006	
Details	"msiexec.exe" called "FileTimeToLocalFileTime" with parameter 00f91c1b33e8d901 & 00f91c1b33e8d901 (UID: 00000000-00000728) "msiexec.exe" called "FileTimeToLocalFileTime" with parameter 00f91c1b33e8d901 & 00f91c1b33e8d901 (UID: 00000000-00007100)	
	Contains ability to retrieve a module handle	
Source	Hybrid Analysis Technology	
Relevance	5/10	
MITRE ATT&CK	System Information Discovery T1082	
Details	GetModuleHandleExW@KERNEL32.dll at 22779-1812-0000000180019762 GetModuleHandleExW@KERNEL32.dll at 22779-1814-00000001800197D5 GetModuleHandleExW@KERNEL32.dll at 22779-1815-0000000180019833 GetModuleHandleW@KERNEL32.dll at 22779-2750-000000018004DD64	

Contains ability to query CPU information ^

Source Hybrid Analysis Technology

Relevance 10/10

MITRE ATT&CK [System Information Discovery](#) T1082

Details cpuid at 22779-25-000000018004D678 cpuid at 44522-16-000000018000C250 

Contains ability to retrieve the fully qualified path of module ^

Source Hybrid Analysis Technology

Relevance 5/10

MITRE ATT&CK [Native API](#) T1106


Details GetModuleFileNameW@KERNEL32.dll at 44522-166-00000001800050B0 

Dropped file has high entropy (likely encrypted/compressed content) ^

Source Binary File

Relevance 5/10

MITRE ATT&CK [Obfuscated Files or Information](#) T1027


Details Dropped file "%WINDIR%\Installer\10e58f.msi" has high entropy 7.992882208843307 Dropped file "%WINDIR%\Installer\10e591.msi" has high entropy 7.992882208843307 

Deletes registry keys ^

Source Registry Access

Relevance 3/10

MITRE ATT&CK [Indicator Removal on Host](#) T1070

Details "msiexec.exe" (Access type: "DELETEVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\FOLDERS"; Key: "C:\CONFIG.MSI"; Value: "") "msiexec.exe" (Access type: "DELETEVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\ROLLBACK\SCRIPTS"; Key: "C:\CONFIG.MSI\10E590.RBS"; Value: "") "msiexec.exe" (Access type: "DELETEVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\ROLLBACK\SCRIPTS"; Key: "C:\CONFIG.MSI\10E590.RBSLOW"; Value: "") "msiexec.exe" (Access type: "DELETEVAL"; Path: "HKCU\SOFTWARE\MICROSOFT\RESTARTMANAGER\SESSION0000"; Key: "SEQUENCE"; Value: 

"" "msiexec.exe" (Access type: "DELETEVAL"; Path: "HKCU\SOFTWARE\MICROSOFT\RESTARTMANAGER\SESSION0000"; Key: "SESSIONHASH"; Value: "") "msiexec.exe" (Access type: "DELETEVAL"; Path: "HKCU\SOFTWARE\MICROSOFT\RESTARTMANAGER\SESSION0000"; Key: "OWNER"; Value: "")

Writes registry keys ^**Source** Registry Access**Relevance** 3/10**MITRE ATT&CK** [Modify Registry](#) T1112**Details**

18\COMPONENTS\5B91A9C56C7D4BB4BBCB882C6AA7950B"; Key: "8F07C821C47E7E943B1FB0C8CAA14F5C"; Value: "%PROGRAMFILES%\psqlODBC\1600\bin\libpq.dll") "msiexec.exe" (Access type: "SETVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\USERDATA\S-1-5-18\COMPONENTS\14C6A121F8B2D364AB48B63F761024A8"; Key: "8F07C821C47E7E943B1FB0C8CAA14F5C"; Value: "%PROGRAMFILES%\psqlODBC\1600\bin\pgxalib.dll") "msiexec.exe" (Access type: "SETVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\FOLDERS"; Key: "C:\PROGRAM FILES\PSQLODBC\1600\BIN\"; Value: "0000") "msiexec.exe" (Access type: "SETVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\FOLDERS"; Key: "C:\PROGRAM FILES\PSQLODBC\1600\"; Value: "0000") "msiexec.exe" (Access type: "SETVAL"; Path: "HKLM\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\INSTALLER\FOLDERS"; Key: "C:\PROGRAM FILES\PSQLODBC\"; Value: "0000") "msiexec.exe" (Access type: "SETVAL"; Path: "HKLM\SOFTWARE\PSQLODBC_X64"; Key: "VERSION"; Value: "16.00.0000") "msiexec.exe" (Access type: "SETVAL"; Path: "HKLM\SOFTWARE\ODBC\ODBCINST.INI\POSTGRESQL ANSI";

Marks file for deletion ^**Source** API Call**Relevance** 10/10**MITRE ATT&CK** [File Deletion](#) T1070.004**Details**

"msiexec.exe" marked "C:\Config.Msi\MSIF4E2.tmp" for deletion "msiexec.exe" marked "C:\Windows\Installer\10e591.msi" for deletion "msiexec.exe" marked "C:\Windows\Installer\MSIF261.tmp" for deletion "msiexec.exe" marked "C:\Config.Msi\MSIFCF2.tmp" for deletion "msiexec.exe" marked "C:\Config.Msi\10e590.rbs" for deletion "msiexec.exe" marked "C:\Windows\Installer\10e58f.msi" for deletion "msiexec.exe" marked "C:\Windows\Installer\inprogressinstallinfo.ipi" for deletion

Opens file with deletion access rights ^**Source** API Call**Relevance** 7/10**MITRE ATT&CK** [File Deletion](#) T1070.004

Details

"msiexec.exe" opened "C:\Config.Msi\MSIF4E2.tmp" with delete access "msiexec.exe" opened "C:\Windows\Installer\InProgress\installinfo.ipi" with delete access

Informative

128

Process details

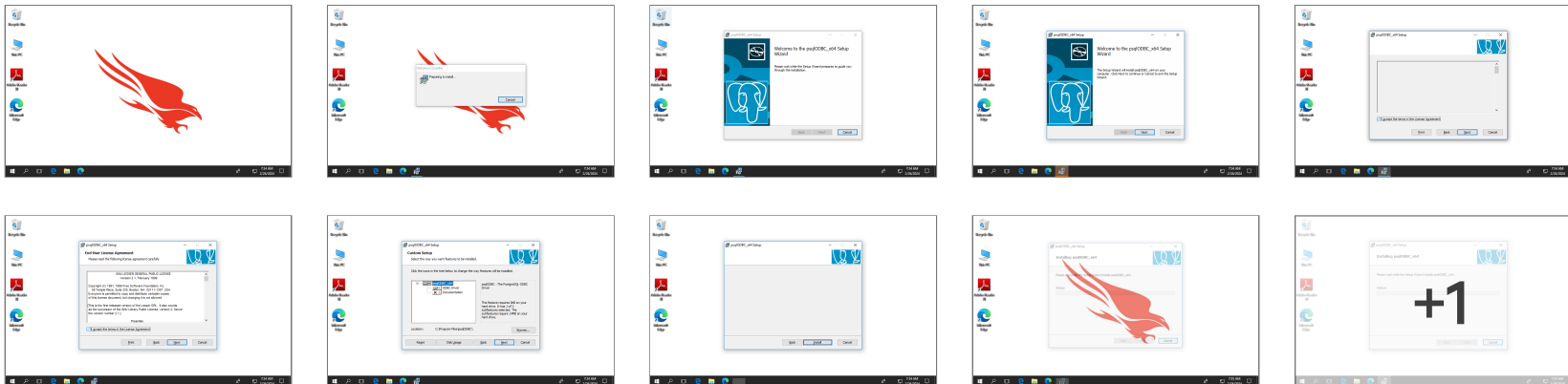


- [msiexec.exe](#) PID 728
- [msiexec.exe](#) PID 7100
- [MsiExec.exe](#) PID 752

Screenshots



Show all Off



Extracted strings




Download extracted strings

vcruntime140.dll.2765944609	40	∨
pgenlista.dll	1	∨
pgenlist.dll	1	∨
psqlodbc_x64.msi	60	∨
msiexec.exe	215	∨
msvcp140.dll.1359509395	1617	∨
ngen.log	343	∨
ODBCINST.INI	1	∨
screen_10.png	2	∨
screen_5.png	1	∨

Extracted files



 No verdict

20 
