

samlib.dll | SAM Library DLL

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samlib.dll [Permalink](#)

- File Path: C:\Windows\SysWOW64\samLib.dll
- Description: SAM Library DLL

Hashes [Permalink](#)

Type	Hash
MD5	0BDF6351009F6EBA5BA7E886F23263B1
SHA1	3EA88E1819546E538E050266CDE6AA4CDB22B2ED
SHA256	328B221FF7E37C6F58EF341CEE533167E499A7239450088180662DEF162D7302
SHA384	80E341D31AEFC8B5641F8E0EC54E9E9350184844F7DA9D10F4A0A65CFE9AFB9EB2C5290F5626D1774278C62905039368
SHA512	8A09E07427DF85886D587D9E0B5F9CC605CBFCCAECDBB2C0D4EE02A4E7746321F54DCB84B6642C7A622A14A76C2445374AD24E234C5FBA8112
SSDEEP	1536:T7bzVo209ij5TA+BMzkHMvA/uvvx9VzT:P3V50wDA7cxfz
IMP	E6A213B654988D6519F1E7E49085E263
PESHA1	A6E178DE3ACCF1C20889B0BAB3779972964B6548
PE256	0F1085F695367C9E756FC8919F55AECB392E75F23DA268ADE81BFD1EF03F548D

DLL Exports: [Permalink](#)

Function Name	Ordinal	Type
SamQueryDisplayInformation	38	Exported Function
SamQueryInformationAlias	39	Exported Function
SamOpenUser	36	Exported Function
SamPerformGenericOperation	37	Exported Function
SamQueryInformationUser	42	Exported Function
SamQueryLocalizableAccountsInDomain	43	Exported Function
SamQueryInformationDomain	40	Exported Function
SamQueryInformationGroup	41	Exported Function
SamOpenGroup	35	Exported Function
SamLookupDomainInSamServer	29	Exported Function
SamLookupIdsInDomain	30	Exported Function
SamiSetDSRMPasswordOWF	69	Exported Function
SamiSyncDSRMPasswordFromAccount	70	Exported Function
SamOpenAlias	33	Exported Function
SamOpenDomain	34	Exported Function
SamLookupNamesInDomain	32	Exported Function

Function Name	Ordinal	Type
SamLookupNamesInDomain2	31	Exported Function
SamQuerySecurityObject	44	Exported Function
SamSetSecurityObject	56	Exported Function
SamShutdownSamServer	57	Exported Function
SamSetInformationUser	54	Exported Function
SamSetMemberAttributesOfGroup	55	Exported Function
SamUnregisterObjectChangeNotification	60	Exported Function
SamValidatePassword	61	Exported Function
SamTestPrivateFunctionsDomain	58	Exported Function
SamTestPrivateFunctionsUser	59	Exported Function
SamSetInformationGroup	53	Exported Function
SamRemoveMemberFromForeignDomain	47	Exported Function
SamRemoveMemberFromGroup	48	Exported Function
SamRegisterObjectChangeNotification	45	Exported Function
SamRemoveMemberFromAlias	46	Exported Function
SamSetInformationAlias	51	Exported Function
SamSetInformationDomain	52	Exported Function
SamRemoveMultipleMembersFromAlias	49	Exported Function
SamRidToSid	50	Exported Function
SamCreateUser2InDomain	12	Exported Function
SamCreateUserInDomain	13	Exported Function
SamCreateAliasInDomain	10	Exported Function
SamCreateGroupInDomain	11	Exported Function
SamDeleteUser	16	Exported Function
SamEnumerateAliasesInDomain	17	Exported Function
SamDeleteAlias	14	Exported Function
SamDeleteGroup	15	Exported Function
SamConnectWithCreds	9	Exported Function
SamAddMemberToGroup	3	Exported Function
SamAddMultipleMembersToAlias	4	Exported Function
OnMachineUILanguageInit	1	Exported Function
SamAddMemberToAlias	2	Exported Function
SamCloseHandle	7	Exported Function
SamConnect	8	Exported Function
SamChangePasswordUser	6	Exported Function

Function Name	Ordinal	Type
SamChangePasswordUser2	5	Exported Function
SamEnumerateDomainsInSamServer	18	Exported Function
SamiChangePasswordUser	64	Exported Function
SamiChangePasswordUser2	63	Exported Function
SamGetMembersInGroup	28	Exported Function
SamiChangeKeys	62	Exported Function
SamiSetBootKeyInformation	67	Exported Function
SamiSetDSRMPassord	68	Exported Function
SamiEncryptPasswords	65	Exported Function
SamLmChangePasswordUser	66	Exported Function
SamGetMembersInAlias	27	Exported Function
SamEnumerateUsersInDomain2	20	Exported Function
SamFreeMemory	22	Exported Function
SamEnumerateGroupsInDomain	19	Exported Function
SamEnumerateUsersInDomain	21	Exported Function
SamGetDisplayEnumerationIndex	25	Exported Function
SamGetGroupsForUser	26	Exported Function
SamGetAliasMembership	23	Exported Function
SamGetCompatibilityMode	24	Exported Function

Signature [Permalink](#)

- Status: Signature verified.
- Serial: 3300000266BD1580EFA75CD6D300000000266
- Thumbprint: A4341B9FD50FB9964283220A36A1EF6F6FAA7840
- Issuer: CN=Microsoft Windows Production PCA 2011, O=Microsoft Corporation, L=Redmond, S=Washington, C=US
- Subject: CN=Microsoft Windows, O=Microsoft Corporation, L=Redmond, S=Washington, C=US

- Original Filename: SAMLib.DLL
- Product Name: Microsoft Windows Operating System
- Company Name: Microsoft Corporation
- File Version: 10.0.19041.1 (WinBuild.160101.0800)
- Product Version: 10.0.19041.1
- Language: English (United States)
- Legal Copyright: Microsoft Corporation. All rights reserved.
- Machine Type: 32-bit

File Scan [Permalink](#)

- VirusTotal Detections: 0/71
- VirusTotal Link: <https://www.virustotal.com/gui/file/328b221ff7e37c6f58ef341cee533167e499a7239450088180662def162d7302/detection/>

Possible Misuse [Permalink](#)

The following table contains possible examples of `samlib.dll` being misused. While `samlib.dll` is **not** inherently malicious, its legitimate functionality can be abused for malicious purposes.

Source	Source File	Example	License
sigma	image_load_mimikatz_inmemory_detection.yml	- 'samlib.dll'	DRL 1.0
sigma	image_load_susp_image_load.yml	description: Detects Loading of samlib.dll, WinSCard.dll from untypical process e.g. through process hollowing by Mimikatz	DRL 1.0
sigma	image_load_susp_image_load.yml	- '\\samLib.dll'	DRL 1.0
atomic-red-team	T1003.006.md	<blockquote>Adversaries may attempt to access credentials and other sensitive information by abusing a Windows Domain Controller's application programming interface (API)(Citation: Microsoft DRSR Dec 2017) (Citation: Microsoft GetNCCChanges) (Citation: Samba DRSUAPI) (Citation: Wine API samlib.dll) to simulate the replication process from a remote domain controller using a technique called DCSync.	MIT License © 2018 Red Canary

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Source: <https://strontic.github.io/xcyclopedia/library/samlib.dll-0BDF6351009F6EBA5BA7E886F23263B1.html>