

# AdFind

## Summary

Command line Active Directory query tool. Mixture of ldapsearch, search.vbs, ldap, dsquery, and dsget tools with a ton of other cool features thrown in for good measure. This tool proceeded dsquery/dsget/etc by years though I did adopt some of the useful stuff from those tools.

## Warranty

See [warranty](#).

## Platforms

- Windows 7 / 2008 R2 or newer against any version of Active Directory, ADAM/AD LDS, and other LDAP directories

## Current Version

Version 1.62.00 - October 13, 2023

## Modification(s) from previous version

- Misc
  - Fixed a crash bug introduced when bringing up to functionality par with private joe only LDAP query tool

## Security Requirements

There are no local security requirements for running AdFind other than the ability to launch executables. Information returned from Active Directory and ADAM/AD LDS will be dependent on the security configured for the directory. Generally a normal Active Directory user can return a considerable amount of information from Active Directory while ADAM/AD LDS tends to be more locked down.

The -showdel option will require permissions to see into the cn=Deleted Objects container. By default, this requires administrator permissions. It can be modified but it is non-trivial for most admins.

The STATS control options (stats, stats+, statonly, stats+only, etc.) require the user to have DEBUG\_PRIVILEGE on the server being queried. This generally means admin access is required to use that functionality.

The -sdna (Security Descriptor Non-Admin) or -nosacl options can be used to tell LDAP to not return the SACL portion of the ACL. This will allow users without auditing rights to retrieve most of the Security Descriptor of an object. Specifically, the Owner, Group Owner, and DACL information will be returned. If you attempt to use -sddl,-sddc,-owner\* options and you don't get the information returned, add the -sdna option to see if that helps.

The biggest news around AdFind in the last few years (2020+), the hacker collectives have really taken a liking to it and the AV / Antimalware companies that still, STILL, have no better tools and mechanisms than to block whole binaries because they might be used in a bad way have decided that AdFind, as a PUP (potentially unwanted program), should be blocked outright instead of use more intelligent mechanisms to see maybe what it is actually doing (like enumerating all objects in the Directory and alerting on that). This has made it challenging for people to download and run the tool without working with their Internet Security and EndPoint Security teams in their companies. I am sorry for the stupid out there but there really isn't much I can do about this. The cluelessness in the AV/Antimalware companies and in some

corporate Security teams is well beyond my ability to correct. As I figure things out about how to bypass the controls etc in place to block AdFind I will share on the blog, <https://blog.joeware.net>. The AV and anti-malware companies are probably a lost cause, but perhaps you can show your corporate Security folks this page and also how useful the tool is for you to do your work and perhaps you will be able to convince them. I have generally found that Security folks who are actually trying to be secure and have a solid knowledge and understanding of security and actually accurately understand what a PUP or PUA is in the ratings without having to look it up will generally whitelist the tool if you really explain how useful it is for you to them. The fact that the hacker collectives like the tool speaks to its power and capability for knowledgable admins. If you have Security folks who feel blocking AdFind is the right model and aren't also blocking DSQuery, LDAPSearch, PowerShell, and ADSI really don't actually understand the problem space all that much. If you would like for them to contact me about it, tell them to hit me up at [support@joeware.net](mailto:support@joeware.net) and explain the issue they have with the tool and I will try to explain why it shouldn't be an issue though I doubt there will be much I can say to them that they couldn't google and find out on their own if they wanted to.

## Language

C++. Compiled with Visual Studio 2022

## Source Code Availability

None

## Story

AdFind was put together when I finally got sick of the limitations in ldapsearch and search.vbs and didn't want to continue writing quick vbscript solutions every time I needed some generic info. Plus, anyone will tell you vbscript doesn't handle several of the attributes in Active Directory very well. Eventually after I had this tool out there for some time, Microsoft introduced dsquery and dsget. While they are nice tools, AdFind continues to be more flexible and I rarely, if ever, use the ds\* tools. I did, however, like the ability to pipe the quoted DN results from the query into other command line tools so I emulated that functionality from the ds\* series with AdFind with the -dsq option. One day I realized that I could take the piping one step further and worked out the -adcsv option which when combined with AdMod is extremely powerful for performing updates on AD.

V01.31.00 added a bunch of new changes, some of these changes include shortcut options. You can view information on the shortcut options with the new help screen available through /sc?. The story behind these shortcut options is that there were queries I was doing on a regular basis that I hated typing up the whole command for, for example, one of my most common queries is to check a schema object for its definitions which would normally take the command `adfind -schema -f "(name=objectname)(ldapdisplayname=objectname)"` and now it is as simple as `adfind -sc s:objectname`. Another common one for me is listing all of the schema objects with a specific prefix which normally would look like `adfind -schema -f "(name=prefix*)(ldapdisplayname=prefix*)" -sort -list ldapdisplayname` and now it is `adfind -sc sl:prefix*`. Anyway there are a ton of shortcuts, have fun.

V01.40.00 finally added an often requested feature - the ability to pipe the output from one AdFind command as the input for the BASE DN for another AdFind command, this allows things like requesting constructed attributes that require a base scope query for all users in an OU or the entire directory with a single command line or counting the number of users in every OU in the directory.

V01.47.00 added a beta switch -nopaging which turns off the default LDAP Paging option. This should make it so AdFind can be used against LDAP directories that do not support the paging control. In V01.48.00 this switch auto-enables itself when it detects a directory that doesn't indicate paging is a supported capability in the RootDSE.

V01.52.00 added some beta Regular Expression (regex) functionality. See -regex? usage for more information.

## Add-Ons

ADCSV.PL - Perl script to convert a full ADFIND output dump to CSV style format. Included in ZIP file for AdFind. No I will not rewrite this in vbscript. I dislike vbscript. I have received a couple of vbscript scripts to do this, I will not include them as I will only include stuff that I have written so I am only answering questions on stuff I wrote. If you only need to export specific attributes, specify those attributes and use the -csv option to get CSV output natively.

## Download

You do not have to supply the email address. I would like you to fill that in though so that I have an idea on how popular a tool really is. If I see 1000 downloads with 900 different email addresses I know it is more widespread than one that has 1000 downloads and 200 different email addresses because the same person needed to keep downloading it for some reason.

**NOTE:** The AV/Malware companies are being morons blocking AdFind. Please see <https://blog.joeware.net/2023/02/22/6166/>

**NOTE2:** I have added a zip password for AdFind.exe in the zip, open the zip file and look in password.txt which isn't password protected.

Email Address:	<input type="text"/>	Optional
<input type="button" value="Download Now"/>		

Sponsored  
Link:

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## Version History

- Update: Version 1.02.00 - Decode more GUID attributes, maintains attribute name case versus converting to lowercase, convert non-print chars to ?.
- Update: Version 1.03.00 - Changed how I identified what was a single value SID or GUID field for decoding. Seems MS decided to make a couple of GUID fields that were actually UNICODE strings octet strings. I got bit by it when working on a little project to do programmatic AD ACL enumerations from a perl script.
- Update: Version 1.04.00 - Added option to allow changing timeout value, also increased page timeout default to 120 seconds from 60 seconds. Added bitwise filter conversion option which will convert simple strings to bitwise OID values. Changes some of the error handling because some error messages weren't seeing the light of day such as bad filter or timeout errors.
- Update: Version 1.05.00 - Added anonymous connection capability. Also added Simple authentication capability
- Update: Version 1.06.00 - Changed -dn and -c options to not return values unless specifically asked for.
- Update: Version 1.07.00 - Added more SID/GUID attributes for decoding. Most specifically for Exchange 2000.
- Update: Version 1.08.00 - Added more SID/GUID attributes for decoding. Most specifically for Dot NET Domains.
- Update: Version 1.09.00 - Attempting to read schema to determine binary/GUID/SID attributes. Display Binary Info as HEX. Also fixed some bad memory management I was doing during count and DN only operations. You should notice that less memory being used for these operations.
- Update: Version 1.10.00 - Added No referrals option (-nr). Added Page size option (-ps)
- Update: Version 1.11.00 - 02/23/2003 - Added port option (-p)
- Update: Version 1.12.00 - 05/24/2003 - Fixed a bug in the -BIT option with OR. Also added -default, -root, -schema, -config that can be used instead of having to specify the full DN for those partitions with -b.

- Update: Version 1.13.00 - 12/01/2003 - Never publicly released, fixed a small bug.
- Update: Version 1.14.00 - 04/10/2004 - Added decode sid option (-sddc), added dsquery style output for Deano (-dsq), added elapsed time counter (-elapsed), added sort (-sort) and reverse sort (-rsort), added show deleted objects (-showdel) which inserts the deleted objects display OID into the server control, added new parameter validation system I worked up for oldcmp.
- Update: Version 1.14.01 - 04/11/2004 - Added a line outputting the full SDDL string for security descriptors because ~Eric asked for it. :o)
- Update: Version 1.15.00 - 04/24/2004 - Fixed an issue with the elapsed time option, it was really screwed up. ;o)
- Update: Version 1.16.00 - 05/20/2004 - Change for internal attrib identification for display. Took into account defunct attribs.
- Update: Version 1.17.00 - 05/29/2004 - Added several new options: /stats, /stats+, /statsonly, /stats+only - all of these are for displaying LDAP STATS info on Windows 2003 AD. They will help you determine how efficient a given query is. Some additional options: /extname which will give you the GUID and SID bind DNs as well as the regular DN, /exterr which will display some additional error info - specifically dsid codes which PSS likes to see. I also added some additional functionality that works all the time and that is closest match display if you specify a bad base DN and also it will display any referrals generated.
- Update: Version 1.18.00 - 07/05/2004 - Fixed a leak in the ldap result section added last version. Fixed a bug in the Stats section on how it displayed the bitwise AND|OR. Fixed the display of deleted objects. You will note that you usually have a new line in the middle of the name and cn fields with K3 and also the DN and distinguishedName fields in 2K. MS fixed the DN for K3 but missed the others, I catch them all.
- Update: Version 1.19.00 - 08/09/2004 - Fixed a bug with decoding of lastLogonTimestamp. Fixed a bug where you couldn't use -root. Added relative base option (-rb). Added -binenc option, this allows you to specify guids and sids in nice human format in a query and it will convert it (ex: objectsid={{sid:S-1-5-21-3593593216-2729731540-1825052264-1105}}). Add excl option to exclude display of certain attribs. I also added some code to catch what appears to be a bug in AD. Occasionally STATS control will return a DWORD value where it should return an OctetString. This was throwing exceptions in AdFind. Now it will capture it and set the bad values to be "".
- Update: Version 1.20.00 - 08/10/2004 - Found out more about STATS bug, added additional usage info and throw up a message when it occurs. MS requires DEBUG\_PRIVILEGE on the DC in order to return STATS info.
- Update: Version 1.21.00 - 09/05/2004 - Fixed division by zero error, fixed some usage text.
- Update: Version 1.22.00 - 09/18/2004 - Added -selapsed, fixed bug in -sddl, added ldap directory determination capability
- Update: Version 1.23.00 - 09/22/2004 - Added lockoutTime to list of time values to be decoded
- Update: Version 1.24.00 - 09/30/2004 - Recompiled to remove Debug info
- Update: Version 1.25.00 - 12/10/2004 - Added several options - maxe,sddl,kerbenc,ff,samdc,excldn,exclndelim. Port can be specified in -h option. -sddc functionality changed to not append nTSecurityDescriptor attribute if attribs are specified. Dot (.) specified for -h gets translated to localhost.
- Update: Version 1.25.01 - 12/10/2004 - Missed cleaning up some debug statements from 1.25.00.
- Update: Version 1.26.00 - 02/12/2005 - Fixed stats bug. Fix stats base search message bug. Fixed bug in "-h.". Fix bug in ranging for K3. Added -nodn,-nolabel,-noctl,-owner,-owneronly,-ownercsv,-sdna.
- Update: Version 1.27.00 - 11/05/2005 - Fixed bug in stats filter expansion. Decode msDS-User-Account-Control-Computed with -samdc. Add TZ string for -tdc(s). Added port info on host connection output info. Broke help up. Added -pr, -list, -soao, -oao,-csv, -csvdelim, -csvmvdlim, -csvq, -nocsvheader, -incldn, -inclndelim, -e, -ef, -tdcs, -utc, -po.
- Update: Version 1.28.00 - 12/21/2005 - Fixed bug in stats, fixed bug in usage display, fixed bug in counting for -incldn.
- Update: Version 1.29.00 - 12/22/2005 - -up \* will now query user for password so you don't have to specify on command line
- Update: Version 1.30.00 - 01/29/2006 - Bug fix for multivalue sid/guid attribs. Fixed /??? usage bug. Added -ssl, -null, -flagdc, -sl, -adcsv. Added logic to prevent logonWorkstations from being displayed in HEX.
- Update: Version 1.30.01 - 01/31/2006 - Fixed small bug with usage.
- Update: Version 1.31.00 - 03/22/2006 - Added /???? shortcut help menu describing a ton of shortcuts which will not be listed here. Fixed Decode issue with msDS-User-Account-Control-Computed. Decode some more flags/values. Decode more attributes - msDS-Behavior-Version, msDS-Cached-Membership, msDS-Cached-

- Membership-Time-Stamp, msDS-Site-Affinity, retiredReplDSASignatures, msDS-RetiredReplINCSignatures. Properly handle requested binary format ;binary. Added support for \t for delimiter switches so you can specify tab delimited. Added options for -binenc to encode int8 time format using {{utc:}} and {{local:}}. Officially added (unhid) shortcut options (-sc xxx:yyy), see /?????. Added -schdc, -rootdse, -rootdsefull, -alldc (all decode), -replacedn, -replacedndelim, -sitenamedc, -resolvesids, -sddl+/-sddl+, -rawsddl, -mvfilterdelim, -mvfilter, -mvnotfilter, -sidbinout, -guidbinout, -asq, -decut, -declocal, -encut, -enclocal
- Update: Version 1.32.00 - 10/01/2006 - Fixed several bugs, added subnets and exch to DN Replace option, Added support to decode longhorn mode values, Expanded partitions msDS-Behavior-Version decoded on, Decode defaultSecurityDescriptor, Changed usage switches around - see adfind /?, Added switches -sddl++, -sddlfilter, -sddlnotfilter, -recmute, -noowner, -nogroup, -nodacl, -nosacl, -decsddl, -tdca, -tdcas, -tdcgt, -tdcgs, Allow ACEs in SDDL+/SDDL++ output to be filtered with -mvfilter, Fixed -maxe so it works for values >1000, Increased buffer size of -ef and -ff options to 10MB, Special Exchange specific decode of msExchMailboxSecurityDescriptor with sddl+, Added shortcuts listpropsets, listpropsetsl, listpropsetscsv, listvwrites, listvwritesl, listvwritescsv, listrights, listrightsl, listrightscsv, exchmbxs, exchme, sfilter, sfilterns, explaces
  - Update: Version 1.33.00 - 10/30/2006 - Updates usage, fixed -sc u bug, mod to -decsddl, more timers for -selapsed, Added INCHAIN/NEST for -bit, added -exterr option for more error points.
  - Update: Version 1.34.00 - 11/13/2006 - Fixed bug in filtered SDDL output, added -qlist, -onlysacl, -onlydacl
  - Update: Version 1.35.00 - 01/06/2007 - Fixed bug in -onlydacl, added shortcut DomainNCs, fixed bug in -sddl flag output, changed decode output for ACL Flag for -sddl+, added -onlydaclflag -onlysaclflag -onlyaclflags
  - Update: Version 1.36.00 - 02/24/2007 - Added switches: -nrss, -resolvesidsldap, -csvnoq, -gcb, -mvfiltercs, -scexchnosys, -sds, -sdsizel, -metasort. Added the following shortcuts: exchsmtpaddr, exchprimarysmtp, objmeta, objsmeta, legacyivr, legacylvrs, legacygroupmembers, replqueue, ncrepl. Updated switches: -rootdse, -fullrootdse. Updated shortcut: exchme. Decode attributes: supportedExtension, pwdProperties. Decode ;binary form of attributes: msDS-ReplAttributeMetaData, msDS-ReplValueMetaData, msDS-NCReplCursors, msDS-ReplConnectionFailures, msDS-ReplLinkFailures, msDS-NCReplInboundNeighbors, msDS-NCReplOutboundNeighbors, msDS-ReplAllInboundNeighbors, msDS-ReplAllOutboundNeighbors, msDS-ReplPendingOps, msDS-TopQuotaUsage
  - Update: Version 1.37.00 - 06/24/2007 - Added new special base switches: forestdns, domaindns, gpo, psocontainer, ldappolicy, xrights, partitions, sites, subnets, exch, dcs, fsps. Added new switches: noautoranging, onlyaclprot, onlyaclunprot Added the following shortcuts: rodcpas, rodcpasl, !rodcpas, !rodcpasl, export, sddldmp, sddlmap, sitedmp, subnetdmp, gpodmp, fspdmp, oudmp, showmeta, showmetas. Updated switches: -replacedn. Decode more time/interval values Decode attributes: options, msDS-ReplicatesNCRReason Updated some of the decode functions for Longhorn (aka Windows Server 2008) values Updates STATS to work properly with Longhorn Fixed multiple usage typos Fixed bug with -mvfilter Streamlined some of the shortcuts Sped up SID resolution (especially in cases where LDAP connection but no RPC connection) Changed "Coordinated Universal Time" in time decode to UTC.
  - Update: Version 1.38.00 - Never publicly released
  - Update: Version 1.39.00 - 01/10/2009 - Now compiled with Code Gear C++ Builder 2009, smaller and faster executable. Changed Windows Longhorn references to Windows Server 2008. Updated decoded attributes to account for Windows Server 2008 values. Added additional decoded attributes. Multiple bug fixes. Multiple shortcut fixes. Multiple usage screen typo fixes. -csv now also sets -noct automatically. -sc sdump sorts multivalue attributes included in return set. Arbitrary text column mode for -csv (see -csv?). -rawsddl no longer requires -sddl. Auto-Ranging disabled for any attributes where the range modifier was specified. Assume -default if no base specified. -mvfilter string matching is made without any modifiers in the returned attribute. I.E. Match on someattrib not someattrib;binary. Added more attributes to be returned for -fullrootdse Added. New switches: rootdseanon, nirs, nirsx, writeable, sslignorecert, mvsort, mvrsort, filterbreakdown, encurrent, tdc, inputdn. New shortcuts: admincountdmp, xrdump, dcdmp, adobjcnt, alldc+, users\_disabled, users\_nonexpiring, users\_pwdnotreqd, users\_accexpired, computers\_disabled, computers\_pwdnotreqd, computers\_active, computers\_inactive, schver, spn, email, site, subnet, syscrit, rodc\_cachable, policies
  - Update: Version 1.40.00 - 02/13/2009 - AdFind now accepts multiple DNS for BASE paramter through STDIN piping. Enable -alldc+ switch that was added in V01.39.00 Fixed Misc usage typos Added Windows Server 2008 R2 decode constants Added "default" -e and -ef type functionality (i.e. default environment variables or default config file that are always processed) Added new switches: -csvqesq, -extsrinfo, -srvtls, -showdelobjlinks, -showrecycled, -showdel+, -tdcdshort, -ic, -db, -ictsv, -stdinsort, -subset Added new shortcuts: -sc trustdmp, -sc ou:xx
  - Update: Version 1.41.00 - 02/13/2010 - Multiple bug fixes, switches, logic, shortcuts, and docs. Added decodes for linkID, msDS-OptionalFeatureFlags, msDS-RequiredForestBehaviorVersion, msDS-

- RequiredDomainBehaviorVersion, and some K8R2 Decodes for existing decoded attributes. Additional work on the Environment (-e and -ef) functionality. Added new switches: -arecex, -digest, -this, -jtsv, -users, -displayspecifiers, -nocsvq, -csvnoheader, -hh, -hd, -tdcfmt, -tdcsfmt. Added new shortcuts: -sc replstat, -sc getacl, -sc getacls Added ;class and ;attr modifiers to shortcuts -sc s and -sc sl.
- Update: Version 1.42.00 - 04/24/2010 - Fixed port bug in -rootdseanon, Fixed -adcsv header bug, Fixed bug in schema OID retrieval, Added -decint, -metafilter, -metafilterattr, -metafilterval, -statsonlynodata, -stats+onlynodata, -ameta, -vmeta switches, Added more fields for stats output for 2008+, Changed the decode of -9223372036854775808, Added -sc dcompol shortcut
  - Update: Version 1.43.00 - 02/13/2011 - Decode more attributes. Fixed multiple usage typos. Modified how several shortcuts functioned to allow CSV, also fixed a few bugs, probably added a few more. ;) Fixed several bugs around handling improperly formatted input. Attempted to fix cut/paste bug from Outlook/Word for doublequote and dash. Enabled -stats with -c. Fixed bug in time output for 00/00/00. Fixed hang bug with processing VERY LARGE groups for CSV. Fixed UTC error in -declocal. Added %int8% for -tdc(s)fmt. Added ENCPWD: format for -up switch. Added -objfilefolder, -encpwd switches. Added shortcuts adam\_info, adam\_fo, adam\_u, adam\_g, adam\_ou, adam\_email, adam\_spn, dclist, export\_\*. Added \_attr and attr- functionality for most shortcuts
  - Update: Version 1.44.00 - 03/03/2011 - Fixed paging bug for non-MSFT LDAP directories. Decode some OpenLDAP RootDSE OIDs. Add -nopagingcheck switch. Fixed output bug in value metadata. Removed nTSecurityDescriptor from -sc export\_\* shortcuts. Added shortcut -sc domainlist. Disallow combination of special base and -b switch. Changed switches behind shortcut -sc dclist to be more flexible. Added ability to -sc gclist, -sc !gclist.
  - Update: Version 1.45.00 - 03/15/2011 - Fixed bug in -tdcdshort
  - Update: Version 1.46.00 - 02/xx/2012 - Fixed bug in decoding binary attributes. Fixed bug in -tdcsfmt. Fixed base bug in -sc objsmeta. Fixed multiple bugs around CSV quoting. Fixed typos in usage. Fixed bugs in dsheuristics decode, Added dynamic determination of int8 time and interval attributes. Better error message when folder doesn't exist for -objfilefolder. Error out if multiple special based used. Fixed -sc dcdmp:csv, added objectsid as well. Changed -sc adobjcnt such that -gc is no longer specified. Modified -sc policies. Added decodes for Win8. Decode msDFSR-Flags. Allow you to specify filter for -ameta and -vmeta. Added following switches -int8time, -int8time-, -dpdn, -pdn, -pdnu, -pdnq, -pdnuq, -statsnofilter, -csvxl, -exportfile, -cv. Added shortcut -sc adinfo.
  - Update: Version 1.47.00 - 10/31/2012 - Fixed bugs with -this, -ameta, -vmeta. Changed Win8 decodes strings to Windows 2012. Added switch -nopaging. Added shortcut -sc ridpool.
  - Update: Version 1.48.00 - 1/17/2015 - Fixed a bunch of bugs. Added a bunch of decodes. Tweaked various shortcuts to increase speed, etc. Allow duplicate attributes to be specified for CSV output (broken a few versions back). Added IPv6 addressing format support for -h/-hh switches. Auto-enable -nopaging when necessary. Added ability to use SID/GUID/IID for BaseDN. Added additional constants for -replacedn. Added :dnwdata:= matching rule. Added BASE64 for -binenc. Added Hex/Base64 modifiers for -sidbinout and -guidbinout. New special bases: -sitelinks, -legacydns, -quotas. Added shortcuts -sc sitelinkdmp, -sc sitelinkdmpl. Added switches -exclrepl, -ametal, -vmetal, -fdnx, -encguidtoiid, -deciidtoguid, -objcnterlevel, -stripdn
  - Update: Version 1.49.00 - 02/28/2015 - Fixed bug in -dluid
  - Update: Version 1.50.00 - 05/04/2017 - Ported to Visual Studio 2017. Change CHAR based functions to safer (\_s) versions. SID Resolution speed greatly increased Security Descriptors. Schema OID query increased to 1K page size (faster startup). BUGFIXES: Fixed auto-nopaging, -sddl+ fixed \*\*\*INVALID\*\*\* incorrectly displayed in decoded ACL, dsHeuristics decode bug, Fixed CanonicalName containing \0A causing newline, Removed -sc gclist (didn't work). Threshold Decodes changed to Windows Server 2016. Additional dsHeuristics decodes. Decode msDS-ReplAuthenticationModeDecode msds-revealedusers. Changed ADAM to ADLDS. Added switches -appver, -dplsids, sslinfo, -tdcda, -tdctzstr, -csvconnerr. Added aliases for -sc schemadmp=sdump, -sc xrdmp=xrdump. Added "short" option to -sc dclist. Added utcgt/localgt for -binenc. Added special bases -prb, -ds, -svcs, -delobj, -delobj+, -roles. The -rb switch works with piped in dns now.
  - Update: Version 1.51.00 - 10/31/2017 - Fixed number of small bug fixes / memory leak fixes related to Borland Builder C++ to VS 2017 conversion, Preloaded Security Descriptor OIDs, For PSISE if stderr redirect send header to stdin, Added Bulk SID resolution to SID attrs, Added garbageCollPeriod to policies, Decode msDS-TrustForestTrustInfo (-samdc), Added more attributes to -fullrootdse, Updated time/sid attributes hardcoded, Brought back the mainicon, Added fgppcontainer alias for psocontainer, Decode wellknownobjects/otherwko, Decoded dSASignature, msExchRemoteRecipientType, msExchRecipientDisplayType, msExchRecipientTypeDetails, Fixed jtsv/2 to use -csv xx value, Added -ametanl, -vmetanl Added -jsd, -jsdnl, -jsde, -jsdenl, -url, -sddl+++/sddc+++, -sddl3 alias for sddl+++, -metamvcsv, -metamvcsva, -metamvcsvv, -binsize xx, -binsizenl xx, -adminrootdse, Changed dcdmp filter to dclist filter, Added dn to -sc dclist:xx, Added shortcuts cexplaces, caclnoinherit, structdmp/dump, fgpps/psos
  - Update: Version 1.52.00 - 01/11/2020 - Ported to Visual Studio 2019 and a whole lot more.

- Update: Version 1.53.00 - 01/01/2021 - Lots of fixes, no longer listing details here. :)
  - Update: Version 1.54.00 - 01/19/2021 - Bug fixes
  - Update: Version 1.55.00 - 03/14/2021 - More bug fixes and some performance increases
  - Update: Version 1.56.00 - 04/23/2021 - More bug fixes and additions
  - Update: Version 1.57.00 - 11/12/2021 - Ported to Visual Studio 2022, more bug fixes and additions
  - Update: Version 1.58.00 - 03/07/2022 - Not released to the Public
  - Update: Version 1.59.00 - 05/06/2023 - Bug fixes, usage fixes, -c2,-upto switches added
  - Update: Version 1.60.00 - 05/06/2023 - Private build
  - Update: Version 1.61.00 - 10/08/2023 - Functionality Par with joe internal only tool, random bugfixes etc
  - Update: Version 1.62.00 - 10/13/2023 - Bug fix of crash bug introduced in V01.61.00
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## As seen in

- [Active Directory Third/Fourth Edition/Fifth Edition](#) - O'Reilly Publishing
  - [Active Directory Cookbook Second/Third Edition/Fourth Edition](#) - O'Reilly Publishing
  - <http://www.jsiinc.com> in tips and tricks
  - Windows IT Pro Magazine
  - Thousands of blog posts.
  - Thousands of newsgroup and web forum postings.
  - Thousands of ActiveDir Org postings.
  - Many articles and presentations about Hackers performing AD Recon and IR Teams working to catch them ;)
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## Usage

Download and type adfind /? for basic usage

[See current usage screens](#)