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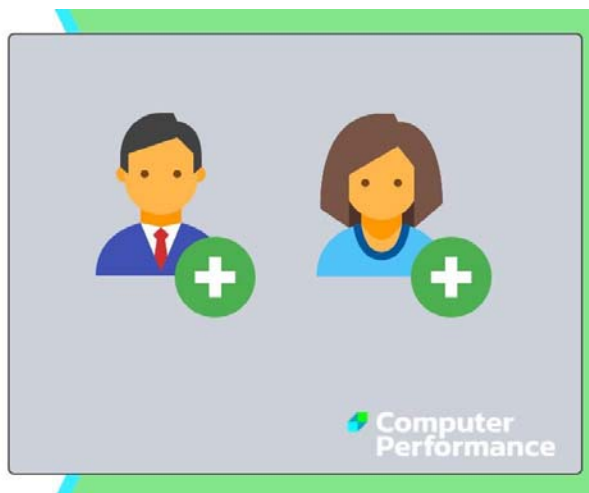
Common LDAP Properties and Script Attributes List with Examples

# Common LDAP Properties and Script Attributes List with Examples

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Logon

 January 9, 2019

 No Comments



COMMON LDAP ATTRIBUTES FOR VBS AND POWERSHELL SCRIPTS

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PowerShell. Programs like **VBScript (WSH)**, **CSVDE** and **LDIFDE** rely on these LDAP attributes to create or modify objects in Active Directory. For example, when you bulk import users you will include the LDAP attributes: dn and sAMAccountName.

## TOPICS FOR LDAP ATTRIBUTES

- [Hall of fame LDAP attribute – DN distinguished name](#)
- [LDAP Attributes from Active Directory Users and Computers](#)
- [LDAP Examples – Comprehensive List](#)

## HALL OF FAME LDAP ATTRIBUTE – DN DISTINGUISHED NAME

As the word 'distinguished' suggests, this is THE LDAP attribute that uniquely defines an object. Each DN must have a different name and location from all other objects in Active Directory. The other side of the coin is that DN provides a way of selecting any object in Active Directory. Once you have selected the object, then you can change its attributes.

Time spent in getting to know the DN attribute will repay manyfold. Observe the different components CN=common name, OU = organizational unit. DC often comes with two entries, DC=CP, DC=COM. Note that DC=CP.COM would be wrong. Incidentally, in this situation, DC means domain content rather than domain controller.

Another point with the syntax is to check the speech marks; when used with VBScript commands, DN is often enclosed in "speech marks". Even the speech marks have to be of the right type, "double quotes are correct", 'single quotes may be ignored', with unpredictable results. Finally, pay particular attention to commas in distinguished names.

## LDAP ATTRIBUTES FROM ACTIVE DIRECTORY USERS AND COMPUTERS

The diagram below is taken from Active Directory Users and Computers. It shows the commonest LDAP attributes for vBSscripts.

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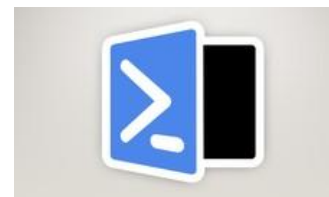
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When you write your scripts, check how the LDAP attributes map to the Active Directory boxes.

#### Research Tip:

One of my favourite techniques is to add values in the active directory property boxes, then export using CSVDE. Next, open the .csv file in Excel, search for the value, and read the LDAP field name from row 1.

#### COMMON LDAP ATTRIBUTES LIST WITH EXAMPLES

| LDAP ATTRIBUTE   | EXAMPLE  |
|------------------|--|
| C                | Country: e.g GB for Great Britain.   |
| CN – Common Name | CN=Guy Thomas. Actually, this LDAP attribute can be made up from givenName joined to SN.   |
| CN               | Maps to 'Name' in the LDAP provider. Remember CN is a mandatory property. See also sAMAccountName.   |
| description      | What you see in Active Directory Users and Computers. Not to be confused with displayName on the Users property sheet.   |
| displayName      | displayName = Guy Thomas. If you script this property, be sure you understand which field you are configuring. DisplayName can be confused with CN or description. |

## DISPLAY NAME -V- DESCRIPTION

### Important LDAP Notes

Display name and Description are different

Office's LDAP attribute is:

physicalDeliveryOfficeName

E-mail is plain: mail



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|                             |  |
|-----------------------------|--|
| DN – also distinguishedName | DN is simply the most important LDAP attribute. For example, CN=Jay Jamieson, OU= Newport, DC= com   |
| givenName                   | Firstname also called Christian name   |
| homeDrive                   | Home Folder: connect. Tricky to connect  |
| initials                    | Useful in some cultures.   |
| name                        | name = Guy Thomas. Exactly the same as the display name  |
| objectCategory              | Defines the Active Directory Schema Class. For example, objectCategory = Person  |
| objectClass                 | objectClass = User. Also used for Computer, OrganizationalUnit, even container. In Active Directory, the top-level container.                              |
| physicalDeliveryOfficeName  | Office! on the user's General properties   |
| postOfficeBox               | P.O. box.  |
| profilePath                 | Roaming profile path: connect. Trick to set up   |
| sAMAccountName              | This is a mandatory property, sAMAccountName = guyt. The old NT 4.0 logon name, must be unique in the domain.  |
| sAMAccountName              | If you are using an LDAP provider 'Name' automatically maps to sAMAccountName and CN. The default value is same as CN, but can be given a different value. |
| SN                          | SN = Thomas. This would be referred to as last name or surname.  |
| title                       | Job title. For example Manager.  |

|                   |  |
|-------------------|--|
|                   | account ready for login.   |
| userPrincipalName | userPrincipalName = guyt@CP.com<br>abbreviated to UPN, and looks like an email address. Very useful for logging on to a large Forest. Note UPN must be unique in a forest. |
| wWWHomePage       | User's home page.  |

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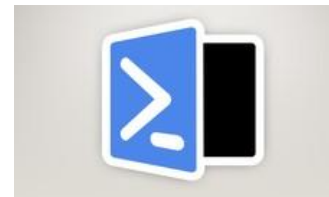


What I like best is the way NPM suggests solutions to network problems. It has the ability to monitor the health of individual VMware virtual machines. If you are interested in troubleshooting, and creating network maps, then I recommend that you try NPM on a [30-day free trial](#).

SolarWinds Network Performance Monitor

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### EXAMPLES OF EXCHANGE SPECIFIC LDAP ATTRIBUTES

|                  |  |
|------------------|--|
| homeMDB          | Here is where you set the MailStore  |
| legacyExchangeDN | Legacy distinguished name for creating Contacts. In the following example, Guy Thomas is a Contact in the first administrative group of GUYDOMAIN:<br>/o=GUYDOMAIN/ou=first administrative group/cn=Recipients/cn=Guy Thomas |
| mail             | An easy, but important attribute. A simple SMTP address is all that is required  |

|                      |   |
|----------------------|---|
| mailNickname         | Normally this is the same value as the sAMAccountName, but could be different if wished. Needed for mail enabled contacts.                      |
| mDBUseDefaults       | Another straightforward field, just the value is: True  |
| msExchHomeServerName | Exchange needs to know which server to use for the mail. Example: /o=YourOrg/ou=First Administrative Group/cn=Configuration/cn=Servers          |
| proxyAddresses       | As the name 'proxy' suggests, it is possible for one recipient to have more than one email address. Note the plural spelling of proxyAddresses. |
| targetAddress        | SMTP: e-mail address. Note that SMTP is case sensitive. All capitals means the default address.   |
| showInAddressBook    | Displays the contact in the Global Address List.  |

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Import users from a spreadsheet. Just provide a list of the users with their fields in the top row, and save as a .csv file. Then launch this FREE utility and match your fields with AD's attributes, click and import the users.

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|                    |   |
|--------------------|---|
| company            | Company or organization name                        |
| department         | Useful category to fill in and use for              |
| homephone          | Home Phone number, (Lots more ph                    |
| l (Lower case L)   | L = Location. City ( Maybe Office                   |
| location           | Important, particularly for printers and computers. |
| manager            | Boss, manager                                       |
| mobile             | Mobile Phone number                                 |
| ObjectClass        | Usually, User, or Computer                          |
| OU                 | Organizational unit. See also DN                    |
| pwdLastSet         | Force users to change their password at logon       |
| postalCode         | Zip or post code                                    |
| st                 | State, Province or County                           |
| streetAddress      | First line of address                               |
| telephoneNumber    | Office Phone  |
| userAccountControl | Enable (512) / disable account (514)                |

»

#### EXAMPLES OF OBSCURE LDAP ATTRIBUTES

|                        |  |
|------------------------|--|
| dnsHostname            |  |
| rID                    |  |
| url                    |  |
| uSNCreated, uSNChanged |  |



To discover more LDAP attributes, go to the command prompt, type:

CSVDE -f Exportfile.csv. Then open Exportfile.csv with Excel.exe.  
Alternatively, use ADSI Edit and right-click the container objects.

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