

## LDAP Filters Cheat Sheet by pamymaf via cheatography.com/154231/cs/33156/

LDAP definitions		
entry	a collection of information about an entity	
attribute	holds the data for an entry	
object- Class	schema elements that specify collections of attribute types that may be related to a particular type of object, process, or other entity	
dn	uniquely identifies that entry and its position in the directory information tree (DIT) hierarchy	
rdn	the relative portion of a distinguished name (DN)	
oid	a string that is used to uniquely identify various elements in the LDAP protocol	

These are taken from the manual at https://ldap.com/basic-ldap-concepts/

LDAP attribute types			
cn	common name		
name	name, same as cn		
dn	distinguished name		
dc	domain component		
manager	manager		
company	company		
department	department		
0	organization		
ou	organizational unit		
uid	user id		
description	description		
displayName	display name		
givenName	first name		
sn	surname		
title	job title		
location	location		
1	location		
streetAddress	first line of address		
postalCode	zip code		

LDAP attribute types (cont)				
С	country			
st	state			
homephone	home phone number			
mobile	mobile phone number			
telephoneNumber	office phone number			
There are many more available attribute types, consult your LDAP software's manual				

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Filter Structure		
()	each component of the search filter is enclosed in parent- hesis	
(attri- bute=v- alue)	the specified attribute must match the specified value	
(attri- but- e=val*)	* is a wildcard and will match anything	
(attri- but- e=va*e)	wildcards can be anywhere in the string	
(attri- bute=*)	this verifies the attribute exists at all	
(attri- but- e>=10)	the specified attribute must be larger than 10	
(attri- but- e<=10)	the specified attribute must be less than 10	
(attri- bute~=- value)	the specified attribute must be like the value, this has no formal standard and each server may implement it differently	
(& () ())	must match all entries	
(  () ())	must match at least one entry	
(! ())	negates the result, true becomes false and false becomes true	



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Published 14th July, 2022. Last updated 14th July, 2022. Page 1 of 2. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish
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Example filters				
(& (ou=research) (! (c=us)))	entries where the organizational unit is research and the country is not the united states			
(  (telephoneNumbe- r=555*) (mobileNumbe- r=555*))	entries where the telephone number starts with 555 or the mobile number starts with 555			
(& (  (location=riven) (postalcode=55893)) (title=manager))	entries where either the location is riven or the post code is 55893 and the job title is manager			



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