

How to create filters in Ezeelogin while using LDAP or AD authentication?

381 Riya Francis July 30, 2024 [General](#) 3609

How to create filters in Ezeelogin while using LDAP or Active Directory (AD) authentication? / Does Ezeelogin allow user authentication based on AD or LDAP groups?

Overview: The article explains how to add filters to Ezeelogin by editing LDAP or AD settings to manage user authentication based on group memberships. It includes examples of using `ldapsearch` commands to verify user membership within specific groups and demonstrates how to create filters with multiple conditions using operators like `&` and `|`. This ensures that Ezeelogin can authenticate users based on group memberships effectively.

You can add the filter in Ezeelogin by editing the LDAP or AD configuration under **Settings >> LDAP**. The following image shows the LDAP configuration page with a sample filter matching the user's inside the " Developers "group.

The screenshot displays the Ezeelogin web interface. On the left, a red sidebar contains a 'Settings' menu item (highlighted with a green box) and a sub-menu 'LDAP' (also highlighted with a green box). The main content area is titled 'LDAP Settings'. It contains several configuration fields: 'Name' (AD-SERVER), 'URI(s)' (ldap://192.168.1.11), 'Start TLS' (unchecked), 'Base DN' (dc=Ezeelogin,dc=com), 'Bind RDN' (cn=Administrator,cn=Users,dc=Ezeelogin,dc=com), 'UID Attribute' (sAMAccountName), 'First Name Attribute', 'Bind Password' (masked with dots), and 'Filter' ((memberOf= CN=Developers,DC=Ezeelogin,DC=com) - highlighted with a green arrow). The top right of the interface shows a user profile icon and the text 'Welcome, Administrator Logout'.

Run a **ldapsearch** command from your Ezeelogin gateway server to check the filter list of the correct users in the group. The syntax for the **ldapsearch** with filter is as follows.

```
root@gateway:# ldapsearch -x -b " Base DN " -H ldap_host_IP -D " Bind RDN " -W "(ldap_filter)"
```

An example for LDAP search for the above filter will be as follows.

```
root@gateway :# ldapsearch -x -b "dc=Ezeelogin,dc=com" -H ldap://192.168.1.11 -D  
"cn=Administrator,cn=Users,dc=Ezeelogin,dc=com" -W "(memberOf=  
CN=Developers,DC=Ezeelogin,DC=com)"
```

The output of the above ldap search is shown below.

```
Enter LDAP Password:  
# extended LDIF  
#  
# LDAPv3  
# base <dc=Ezeelogin,dc=com> with scope subtree  
# filter: (memberOf= CN=Developers,DC=Ezeelogin,DC=com)  
# requesting: ALL  
#  
  
# rini PF., Ezeelogin.com  
dn: CN=rini PF.,DC=Ezeelogin,DC=com  
objectClass: top  
objectClass: person  
objectClass: organizationalPerson  
objectClass: user
```

cn: rini PF.
givenName: rini
initials: PF
distinguishedName: CN=rini PF.,DC=Ezeelogin,DC=com
instanceType: 4
whenCreated: 20210127203733.0Z
whenChanged: 20210309201301.0Z
displayName: rini PF.
uSNCreated: 12754
memberOf: CN=Developers,DC=Ezeelogin,DC=com
memberOf: CN=Eztest,DC=Ezeelogin,DC=com
uSNChanged: 53323
name: rini PF.
objectGUID:: VmjHdiz8qEagbd4Zc9H+2A==
userAccountControl: 512
badPwdCount: 0
codePage: 0
countryCode: 0
badPasswordTime: 132562563956027090
lastLogoff: 0
lastLogon: 132562564935720206
pwdLastSet: 132562564801090925
primaryGroupID: 513
objectSid:: AQUAAAAAAAAUVAAXxviuHtZf2ydRMK4HUAQAAA==
accountExpires: 9223372036854775807
logonCount: 0
sAMAccountName: rini
sAMAccountType: 805306368
userPrincipalName: rini@Ezeelogin.com
objectCategory: CN=Person,CN=Schema,CN=Configuration,DC=Ezeelogin,DC=com
dSCorePropagationData: 20210309201301.0Z
dSCorePropagationData: 16010101000000.0Z
lastLogonTimestamp: 132562564935720206

Irin Mathew, Ezeelogin.com

dn: CN=Irin Mathew,DC=Ezeelogin,DC=com
objectClass: top
objectClass: person
objectClass: organizationalPerson
objectClass: user
cn: Irin Mathew
sn: Mathew
givenName: Irin

distinguishedName: CN=Irin Mathew,DC=Ezeelogin,DC=com
instanceType: 4
whenCreated: 20210305025714.0Z
whenChanged: 20210309201324.0Z
displayName: Irin Mathew
uSNCreated: 41011
memberOf: CN=Sysadmins,DC=Ezeelogin,DC=com
memberOf: CN=Developers,DC=Ezeelogin,DC=com
memberOf: CN=centosuser,DC=Ezeelogin,DC=com
memberOf: CN=Eztest,DC=Ezeelogin,DC=com
uSNChanged: 53325
name: Irin Mathew
objectGUID:: /FxmIRFpP02h3MkM572bdg==
userAccountControl: 66048
badPwdCount: 0
codePage: 0
countryCode: 0
badPasswordTime: 0
lastLogoff: 0
lastLogon: 0
pwdLastSet: 132593866344903752
primaryGroupID: 513
objectSid:: AQUAAAAAAAAUVAAXxviuHtZf2ydRMK4HVgQAAA==
accountExpires: 9223372036854775807
logonCount: 0
sAMAccountName: irin
sAMAccountType: 805306368
userPrincipalName: irin@Ezeelogin.com
objectCategory: CN=Person,CN=Schema,CN=Configuration,DC=Ezeelogin,DC=com
dSCorePropagationData: 20210309201325.0Z
dSCorePropagationData: 20210305030624.0Z
dSCorePropagationData: 20210305025714.0Z
dSCorePropagationData: 16010101000000.0Z

Note: After saving the filter, click on the **User>> LDAP** tab to list the users under the LDAP

group.

How to create a filter with more than one condition?

We can create filters with more than one condition by using certain operators like **&** , **|** , etc. For example, create a filter to list the users that are common in " **Developers** " and " **Sysadmins** " where **Irin** is a common user.

The syntax for the filter with the operators is as follows.

```
root@gateway:# ldapsearch -x -b " Base DN " -H ldap_host_IP -D " Bind RDN " -W  
"(operator(filter_1)(filter_2)(filter_n))"
```

Step 1. Ldap filter with "&" operator.

The following image shows an LDAP filter that lists common users from group " **Developers** "and " **Systemadmins** ".

Given below is the LDAP search for the above filter.

```
root@gateway:# ldapsearch -x -b "dc=Ezeelogin,dc=com" -H ldap://192.168.1.11 -D  
"cn=Administrator,cn=Users,dc=  
Ezeelogin,dc=com" -W "(&(memberOf= CN=Developers,DC=Ezeelogin,DC=com)(memberOf=  
CN=Sysadmins,DC=Ezeelogin,DC=com))"
```

The output of the ldapsearch is as follows.

```
Enter LDAP Password:
# extended LDIF
#
# LDAPv3
# base <dc=Ezeelogin,dc=com> with scope subtree
# filter: (&(memberOf= CN=Developers,DC=Ezeelogin,DC=com)(memberOf=
CN=Sysadmins,DC=Ezeelogin,DC=com))
# requesting: ALL
#
# Irin Mathew, Ezeelogin.com
dn: CN=Irin Mathew,DC=Ezeelogin,DC=com
objectClass: top
objectClass: person
objectClass: organizationalPerson
objectClass: user
cn: Irin Mathew
sn: Mathew
givenName: Irin
distinguishedName: CN=Irin Mathew,DC=Ezeelogin,DC=com
instanceType: 4
whenCreated: 20210305025714.0Z
whenChanged: 20210309201324.0Z
displayName: Irin Mathew
uSNCreated: 41011
memberOf: CN=Sysadmins,DC=Ezeelogin,DC=com
memberOf: CN=Developers,DC=Ezeelogin,DC=com
memberOf: CN=centosuser,DC=Ezeelogin,DC=com
memberOf: CN=Eztest,DC=Ezeelogin,DC=com
uSNChanged: 53325
name: Irin Mathew
objectGUID:: /FxMIRFpP02h3MkM572bdg==
userAccountControl: 66048
```

```
badPwdCount: 0
codePage: 0
countryCode: 0
badPasswordTime: 0
lastLogoff: 0
lastLogon: 0
pwdLastSet: 132593866344903752
primaryGroupID: 513
objectSid:: AQUAAAAAAAAUVAAAAxviuHtZf2ydRMK4HVgQAAA==
accountExpires: 9223372036854775807
logonCount: 0
sAMAccountName: irin
sAMAccountType: 805306368
userPrincipalName: irin@Ezeelogin.com
objectCategory: CN=Person,CN=Schema,CN=Configuration,DC=Ezeelogin,DC=com
dSCorePropagationData: 20210309201325.0Z
dSCorePropagationData: 20210305030624.0Z
dSCorePropagationData: 20210305025714.0Z
dSCorePropagationData: 16010101000000.0Z
```

Step 2. Filter with " | " operator.

The following image shows a filter to list all users in groups " **Developers**" and "**Sysadmins**".

Ezeelogin Welcome, Administrator Logout

Settings

- General
- Branding
- Control Panels
- Data Centers
- API
- LDAP**
- SAML
- RADIUS
- Server Fields

LDAP Settings

Name
AD-SERVER

URI(s)
ldap://192.168.1.11

Start TLS
☐

Bind RDN
cn=Administrator,cn=Users,dc=Ezeelogin,dc=com

UID Attribute
sAMAccountName

First Name Attribute
givenName

Base DN
dc=Ezeelogin,dc=com

Bind Password
.....

Filter
(!(memberOf= CN=Developers,DC=Ezeelogin,DC=com)(memberOf= CN=Sysadmins,DC=Ezeelogin,DC=com))

Last Name Attribute
sn

LDAP search command to list all users under two groups "Developers" and " Sysadmin" is as follows.

```
root@gateway:# ldapsearch -x -b "dc=Ezeelogin,dc=com" -H ldap://192.168.1.11 -D
"cn=Administrator,cn=Users,dc=Ezeelogin,dc=com" -W "(!(memberOf=
CN=Developers,DC=Ezeelogin,DC=com)(memberOf= CN=Sysadmins,DC=Ezeelogin,DC=com))"
```

The output of the above ldapsearch command is shown below.

```
Enter LDAP Password:
# extended LDIF
#
# LDAPv3
```



```
# base <dc=Ezeelogin,dc=com> with scope subtree
# filter: ((memberOf= CN=Developers,DC=Ezeelogin,DC=com)(memberOf=
CN=Sysadmins,DC=Ezeelogin,DC=com))
# requesting: ALL
#

# roma Ali., Ezeelogin.com
dn: CN=roma Ali.,DC=Ezeelogin,DC=com
objectClass: top
objectClass: person
objectClass: organizationalPerson
objectClass: user
cn: roma Ali.
givenName: roma
initials: Ali
distinguishedName: CN=roma Ali.,DC=Ezeelogin,DC=com
instanceType: 4
whenCreated: 20210127210658.0Z
whenChanged: 20210309201314.0Z
displayName: roma Ali.
uSNCreated: 12775
memberOf: CN=Sysadmins,DC=Ezeelogin,DC=com
memberOf: CN=centosuser,DC=Ezeelogin,DC=com
memberOf: CN=Eztest,DC=Ezeelogin,DC=com
uSNChanged: 53324
name: roma Ali.
objectGUID:: hxJd7NT4vkaTp+gwmJfThw==
userAccountControl: 512
badPwdCount: 0
codePage: 0
countryCode: 0
badPasswordTime: 0
lastLogoff: 0
lastLogon: 0
pwdLastSet: 132562552180870397
primaryGroupID: 513
objectSid:: AQUAAAAAAAAUVAAXviuHtZf2ydRMK4HUgQAAA==
accountExpires: 9223372036854775807
logonCount: 0
sAMAccountName: roma
sAMAccountType: 805306368
userPrincipalName: roma@Ezeelogin.com
objectCategory: CN=Person,CN=Schema,CN=Configuration,DC=Ezeelogin,DC=com
```

dSCorePropagationData: 20210309201314.0Z
dSCorePropagationData: 20210305030609.0Z
dSCorePropagationData: 16010101000000.0Z

Irin Mathew, Ezeelogin.com
dn: CN=Irin Mathew,DC=Ezeelogin,DC=com
objectClass: top
objectClass: person
objectClass: organizationalPerson
objectClass: user
cn: Irin Mathew
sn: Mathew
givenName: Irin
distinguishedName: CN=Irin Mathew,DC=Ezeelogin,DC=com
instanceType: 4
whenCreated: 20210305025714.0Z
whenChanged: 20210309201324.0Z
displayName: Irin Mathew
uSNCreated: 41011
memberOf: CN=Sysadmins,DC=Ezeelogin,DC=com
memberOf: CN=Developers,DC=Ezeelogin,DC=com
memberOf: CN=centosuser,DC=Ezeelogin,DC=com
memberOf: CN=Eztest,DC=Ezeelogin,DC=com
uSNChanged: 53325
name: Irin Mathew
objectGUID:: /FxMIRFpP02h3MkM572bdg==
userAccountControl: 66048
badPwdCount: 0
codePage: 0
countryCode: 0
badPasswordTime: 0
lastLogoff: 0
lastLogon: 0
pwdLastSet: 132593866344903752
primaryGroupID: 513
objectSid:: AQUAAAAAAAAUVAAXviuHtZf2ydRMK4HVgQAAA==
accountExpires: 9223372036854775807
logonCount: 0
sAMAccountName: irin
sAMAccountType: 805306368
userPrincipalName: irin@Ezeelogin.com
objectCategory: CN=Person,CN=Schema,CN=Configuration,DC=Ezeelogin,DC=com
dSCorePropagationData: 20210309201325.0Z

dSCorePropagationData: 20210305030624.0Z
dSCorePropagationData: 20210305025714.0Z
dSCorePropagationData: 16010101000000.0Z

rini PF., Ezeelogin.com
dn: CN=rini PF.,DC=Ezeelogin,DC=com
objectClass: top
objectClass: person
objectClass: organizationalPerson
objectClass: user
cn: rini PF.
givenName: rini
initials: PF
distinguishedName: CN=rini PF.,DC=Ezeelogin,DC=com
instanceType: 4
whenCreated: 20210127203733.0Z
whenChanged: 20210309201301.0Z
displayName: rini PF.
uSNCreated: 12754
memberOf: CN=Developers,DC=Ezeelogin,DC=com
memberOf: CN=Eztest,DC=Ezeelogin,DC=com
uSNChanged: 53323
name: rini PF.
objectGUID:: VmjHdiz8qEagbd4Zc9H+2A==
userAccountControl: 512
badPwdCount: 0
codePage: 0
countryCode: 0
badPasswordTime: 132562563956027090
lastLogoff: 0
lastLogon: 132562564935720206
pwdLastSet: 132562564801090925
primaryGroupID: 513
objectSid:: AQUAAAAAAAAAUVAAAAxviuHtZf2ydRMK4HUAQAAA==
accountExpires: 9223372036854775807
logonCount: 0
sAMAccountName: rini
sAMAccountType: 805306368
userPrincipalName: rini@Ezeelogin.com
objectCategory: CN=Person,CN=Schema,CN=Configuration,DC=Ezeelogin,DC=com
dSCorePropagationData: 20210309201301.0Z
dSCorePropagationData: 16010101000000.0Z
lastLogonTimestamp: 132562564935720206

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<https://www.ezeelogin.com/kb/article/how-to-create-filters-in-ezeelogin-while-using-ldap-or-ad-authentication-381.html>