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### How to configure Nextcloud server with LDAP

By [Ivan Jurišić](#), Tuesday, February 21 2017. [Permalink](#) [Nextcloud](#)

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Nextcloud have excellent Apps for integration user and group by LDAP / AD. If don't have LDAP server check "[How to Install and configure a Basic LDAP Server on an Debian 8 Jessie](#)" and continue reading this short example of integration LDAP and Nextcloud.

### Activate LDAP user and group backend for Nextcloud

Login in Nextcloud as Administrator and click on top left dropdown list and select "Apps", then click on "Not enabled" and search " LDAP user and group backend".



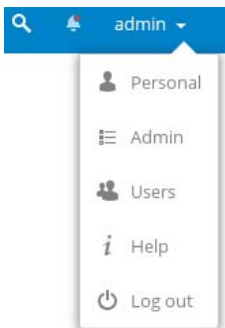
LDAP user and group  
backend 1.1.1  
by Dominik Schmidt and Arthur  
Schiwon (AGPL-licensed)

✓ Official

Show description ...

Enable

Click on button "Enable" and wait 5-10 sec, then click on top right dropdown list.



Click on "Admin", and select "LDAP / AD integration"

## LDAP

Server

Users

Login Attributes

Groups

Advanced

Expert

1. Server: localhost

localhost

389

Detect Port

cn=admin,dc=test,dc=com

.....

dc=test,dc=com

Detect Base DN

Test Base DN

☐ Manually enter LDAP filters (recommended for large directories)

Configuration OK

Continue

Help

Enter LDAP connection data and go in section Users.

Hostname: localhost  
LDAP bind user: cn=admin,dc=test,dc=com  
Password: The password that you have choosen.  
Base DN: dc=test,dc=com

## LDAP

Server

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Nextcloud access is limited to users meeting these criteria:

Only these object classes: inetOrgPerson

The most common object classes for users are organizationalPerson, person, user, and inetOrgPerson. If you are not sure which object class to select, please consult your directory admin.

Only from these groups: Select groups

[Edit LDAP Query](#)

LDAP Filter: (|(objectclass=inetOrgPerson))

Verify settings and count users

Configuration OK

Back

Continue

Help

Under selection "Only these object class" select "inetOrgPerson". Now go in section Login Attributes.

## LDAP

| Server  | Users | Login Attributes | Groups | Advanced | Expert |
|---|-------|------------------|--------|----------|--------|
| <p>When logging in, Nextcloud will find the user based on the following attributes:</p> <p>LDAP / AD Username: <input checked="" type="checkbox"/></p> <p>LDAP / AD Email Address: <input checked="" type="checkbox"/></p> <p>Other Attributes: <input type="text" value="Select attributes"/></p> <p><a href="#">Edit LDAP Query</a></p> <p>LDAP Filter: <code>(&amp;( (objectclass=inetOrgPerson))( (uid=%uid)(mailPrimaryAddress=%uid)(mail=%uid)))</code></p> <p><input type="text" value="Test Loginname"/> <input type="button" value="Verify settings"/></p> <p>Configuration OK <span style="color: green;">●</span> <input type="button" value="Back"/> <input type="button" value="Continue"/> <a href="#">i Help</a></p> |       |                  |        |          |        |

Select checkbox "LDAP / AD Username" and "LDAP / AD Email Address" (users can login with username or e-mail), then go in section Groups.

## LDAP

| Server  | Users | Login Attributes | Groups | Advanced | Expert |
|---|-------|------------------|--------|----------|--------|
| <p>Groups meeting these criteria are available in Nextcloud:</p> <p>Only these object classes: <input type="text" value="posixGroup"/></p> <p>Only from these groups: <input type="text" value="nextcloud"/></p> <p><a href="#">Edit LDAP Query</a></p> <p>LDAP Filter: <code>(&amp;( (objectclass=posixGroup))( (cn=nextcloud)))</code></p> <p><input type="button" value="Verify settings and count groups"/></p> <p>Configuration OK <span style="color: green;">●</span> <input type="button" value="Back"/> <a href="#">i Help</a></p> |       |                  |        |          |        |

Under selection "Only these object class" select "posixGroup" and under "Only from these groups" select "nextcloud" then go in Advanced settings.

## LDAP

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▶ Connection Settings

▶ Directory Settings

▼ Special Attributes

Quota Field

Quota Default

Email Field

User Home Folder

Naming Rule

mail

uid

Test Configuration

i Help

Under Advanced set Special Attributes.

Email Field: mail

User Home Folder: uid

Now can check users, click on top-right dropdown list and select "Users"

| <div><div>Search</div><div>admin</div></div>      |             |          |          |                 |       |        |
|---|-------------|----------|----------|-----------------|-------|--------|
| Username  |             | Password |          | Groups          |       | Create |
| Username  | Full name   | Password | Groups   | Group admin for | Quota |        |
| <div>F</div> 6a8d2dc6-8c8d-1036-85c5-2756a4a55b23 | First User  | •••••••• | no group | no group        | 1 GB  |        |
| <div>S</div> 6a8e8a40-8c8d-1036-85c6-2756a4a55b23 | Second User | •••••••• | no group | no group        | 1 GB  |        |
| <div>A</div> admin                                | admin       | •••••••• | admin    | no group        | 1 GB  |        |

## LDAP Expert

Under Username system generate UUID attribute automatically and that value need to be unique. You can change Internal Username from UUID to uid but that option is open only for expert users.

## LDAP

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### Internal Username

By default, the internal username will be created from the UUID attribute. It makes sure that the username is unique and characters do not need to be converted. The internal username has the restriction that only these characters are allowed: [ a-zA-Z0-9\_@- ]. Other characters are replaced with their ASCII correspondence or simply omitted. On collisions a number will be added/increased. The internal username is used to identify a user internally. It is also the default name for the user home folder. It is also a part of remote URLs, for instance for all \*DAV services. With this setting, the default behavior can be overridden. Leave it empty for default behavior. Changes will have effect only on newly mapped (added) LDAP users.

Internal Username Attribute:

### Override UUID detection

By default, the UUID attribute is automatically detected. The UUID attribute is used to doubtlessly identify LDAP users and groups. Also, the internal username will be created based on the UUID, if not specified otherwise above. You can override the setting and pass an attribute of your choice. You must make sure that the attribute of your choice can be fetched for both users and groups and it is unique. Leave it empty for default behavior. Changes will have effect only on newly mapped (added) LDAP users and groups.

UUID Attribute for Users:

UUID Attribute for Groups:

### Username-LDAP User Mapping

Usernames are used to store and assign (meta) data. In order to precisely identify and recognize users, each LDAP user will have an internal username. This requires a mapping from username to LDAP user. The created username is mapped to the UUID of the LDAP user. Additionally the DN is cached as well to reduce LDAP interaction, but it is not used for identification. If the DN changes, the changes will be found. The internal username is used all over. Clearing the mappings will have leftovers everywhere. Clearing the mappings is not configuration sensitive, it affects all LDAP configurations! Never clear the mappings in a production environment, only in a testing or experimental stage.




[Clear Username-LDAP User Mapping](#)

[Clear Groupname-LDAP Group Mapping](#)

[Test Configuration](#) [i Help](#)

You can change "Internal Username" for example in "uid", and result is:

Username
Password
Groups
Create

|   | Username | Full name   | Password | Groups    | Group admin for | Quota |
|---|----------|-------------|----------|-----------|-----------------|-------|
|  | admin    | admin       | •••••••• | admin     | no group        | 1 GB  |
|  | user1    | First User  | •••••••• | nextcloud | no group        | 1 GB  |
|  | user2    | Second User | ••••••~• | nextcloud | no group        | 1 GB  |

That is all, enjoy in Nextcloud with LDAP integration.

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