

How to setup JumpCloud LDAP Service for Synology NAS

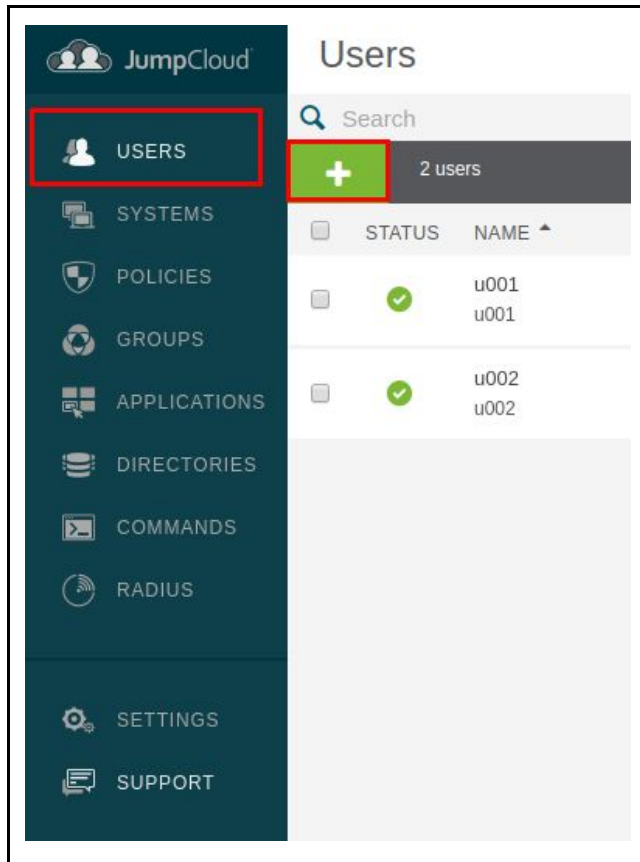
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Preparation

1. Register account in the jump cloud website
- <https://console.jumpcloud.com/>
2. Login

Create Users

1. At page USERS, click the “+” to add user



2. We want to add user “testuser1”

- Because we want to allow user to bind LDAP

=> Enable the option [Enable as LDAP Bind DN]

The screenshot shows the 'New User' configuration form. It has tabs for DETAILS, USER GROUPS, SYSTEMS, DIRECTORIES, and ATTRIBUTES. The 'User Configuration' section includes fields for FIRST NAME, LAST NAME, USERNAME, and EMAIL. Below these fields, there are checkboxes for 'Enable Global Administrator' and 'Enable as LDAP Bind DN'. The 'Enable as LDAP Bind DN' checkbox is checked and highlighted with a red rectangle. The 'User Credentials' section includes checkboxes for 'Specify initial password' and 'Enable Multifactor Authentication'.

User Configuration

FIRST NAME: testuser1 LAST NAME:

USERNAME: testuser1 EMAIL: testuser1@test.com

☐ Enable Global Administrator
When enabled, this user will have administrator/sudo privileges on all systems they are bound to. When disabled, privileges may be set on a per system basis using the Systems tab.

☒ Enable as LDAP Bind DN
User can bind to and search the JumpCloud LDAP service.

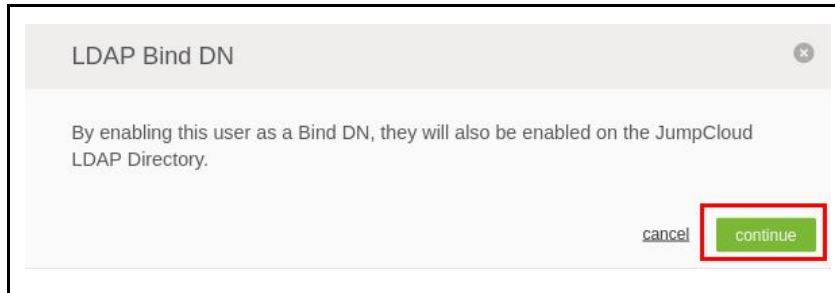
User Credentials

INITIAL PASSWORD:

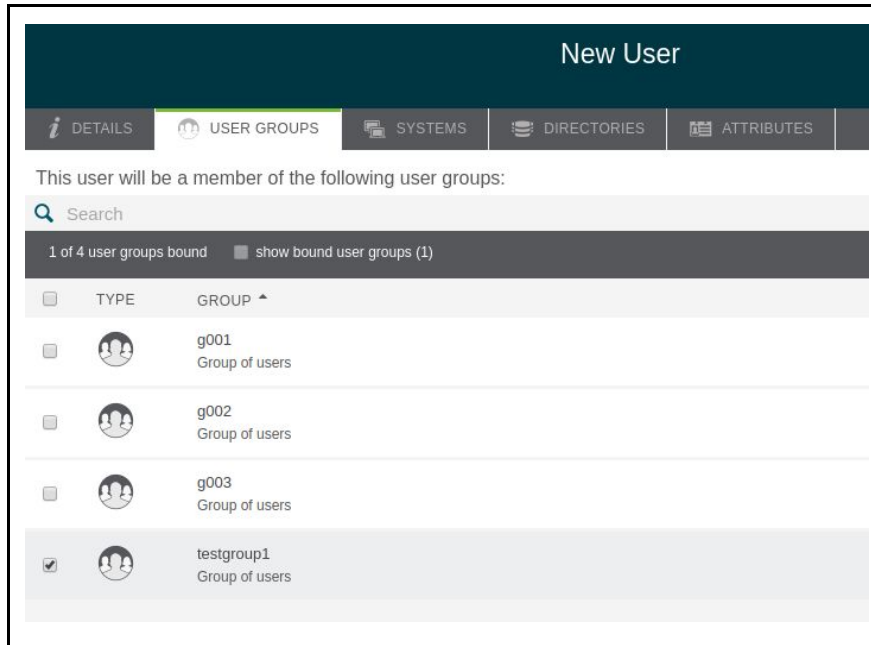
☐ Specify initial password, rather than sending a welcome email.
Use this setting if the user's email address does not exist yet.

☐ Enable Multifactor Authentication on the JumpCloud User Portal
Enabling this option will require this user to use Google Authenticator when logging into the JumpCloud User Portal.

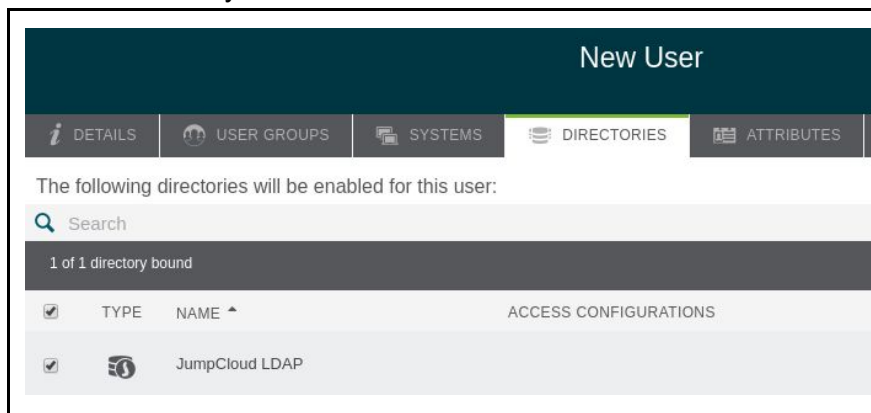
- it will show alert message, and click [continue]



3. Select groups to join



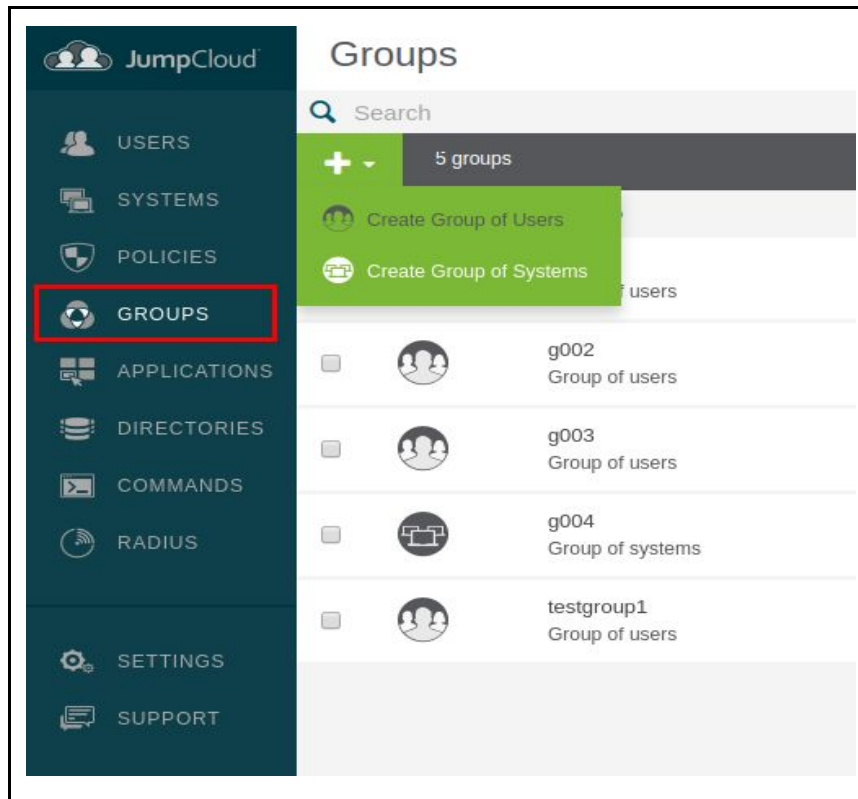
4 Select Directory here



- click [save user] to apply Setting

Create Groups

1. At page GROUPS, choose [Create Group of Users]



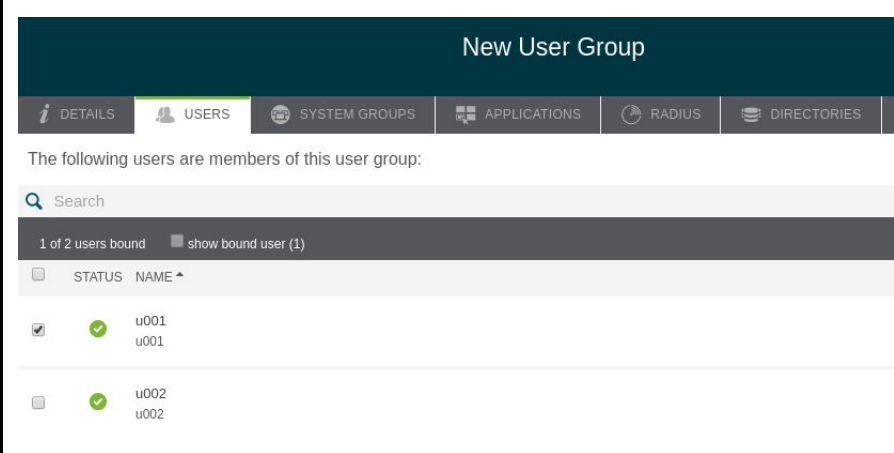
2. Add group name “testgroup1”

- because Synology need attribute - objectClass: posixGroup

=> Enable the option [Create Linux group for this user group]

- You **can't** use the same name “testgroup1” as GROUP NAME, so we rename it “tg1” and give an arbitrary number for GID

3. Select users to join the group



New User Group

USERS | DETAILS | SYSTEM GROUPS | APPLICATIONS | RADIUS | DIRECTORIES

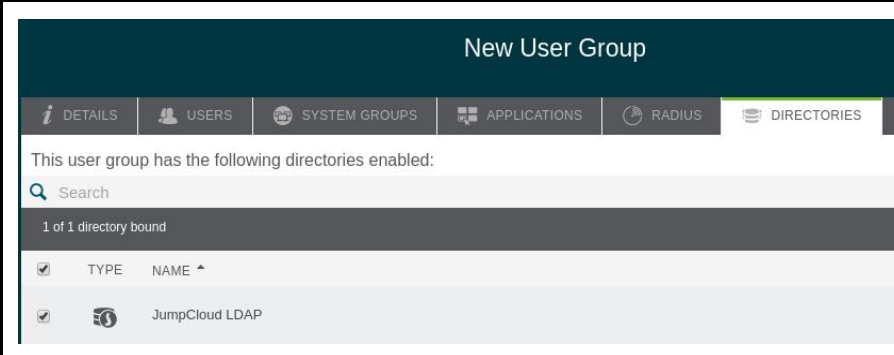
The following users are members of this user group:

Search

1 of 2 users bound ☐ show bound user (1)

<input type="checkbox"/>	STATUS	NAME ^
<input checked="" type="checkbox"/>	✓	u001 u001
<input type="checkbox"/>	✓	u002 u002

4. Select directory to user



New User Group

DETAILS | **USERS** | SYSTEM GROUPS | APPLICATIONS | RADIUS | **DIRECTORIES**

This user group has the following directories enabled:

Search

1 of 1 directory bound

<input checked="" type="checkbox"/>	TYPE	NAME ^
<input checked="" type="checkbox"/>	JumpCloud LDAP	

5. click [save group] to apply setting

File Sharing with NT-Password

If you don't want to use File Sharing with plain text password, you have to enable Samba Schema in the JumpCloud LDAP Service

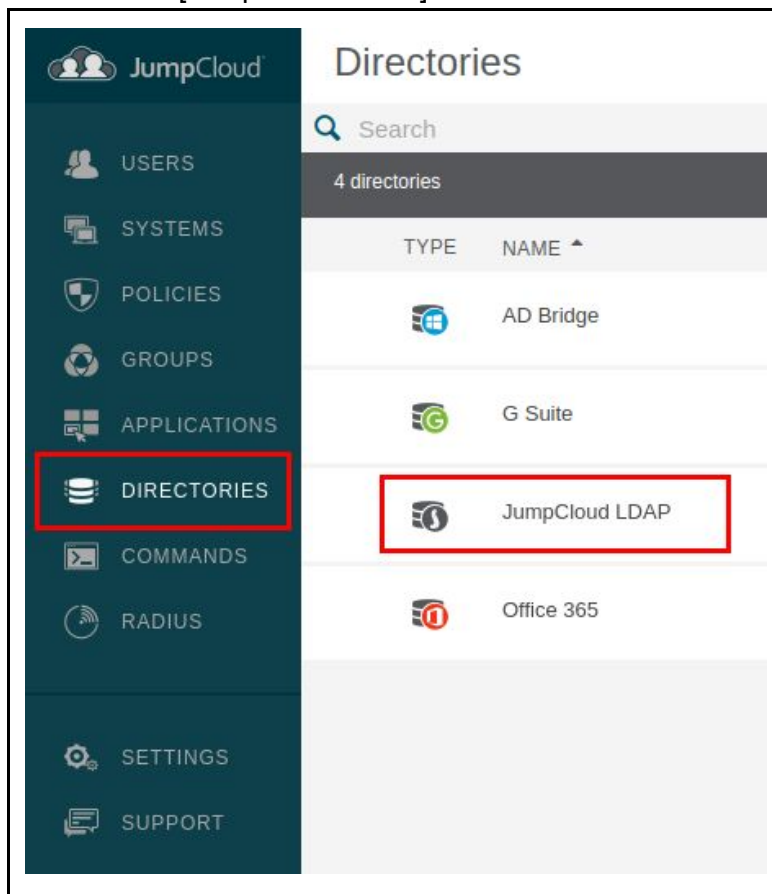
1. Login your DS with SSH
2. Use command to get SAMBA SID

>> **net getlocalsid**

SID for domain xxxx is: **S-1-5-21-1413691194-1125850329-771830121**

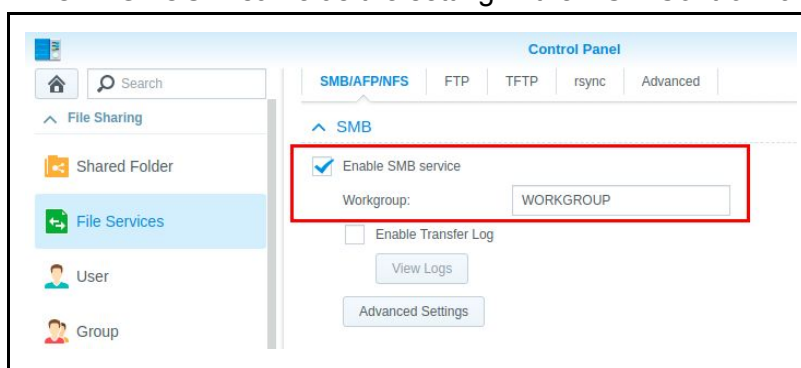
3. Modify setting from [DIRECTORIES]

- click to edit [JumpCloud LDAP]



4. Enable option [Configure Samba Authentication]

- WORKGROUP: same as the setting in the DSM Control Panel



- SID: copy the result from Step 2

- SAMBA SERVICE ACCOUNT: select the user you used to bind jumpcloud in the Synology NAS, e.g. testuser1

JumpCloud LDAP

LDAP Instance

ORG DN
o=5a4f46c80065c10750de8da1,dc=jumpcloud,dc=com

Read our [Knowledge Base](#) article on how to easily add, disable, and update user accounts.

LDAP Configuration

☒ Configure Samba Authentication

WORKGROUP:
WORKGROUP

SID:
S-1-5-21-1413691194-1125850329-771830121

SAMBA SERVICE ACCOUNT:
testuser1

SAMBA SERVICE ACCOUNT DN:
uid=testuser1,ou=Users,o=5a4f46c80065c10750de8da1,dc=jumpcloud,dc=com

To grant access to a Samba resource, please select Enable Samba Authentication on at least one User Group.

5. Click [save] to apply setting

6. You can check the status from [DIRECTORIES] -> [JumpCloud LDAP] -> [USERS]

JumpCloud LDAP

USERS

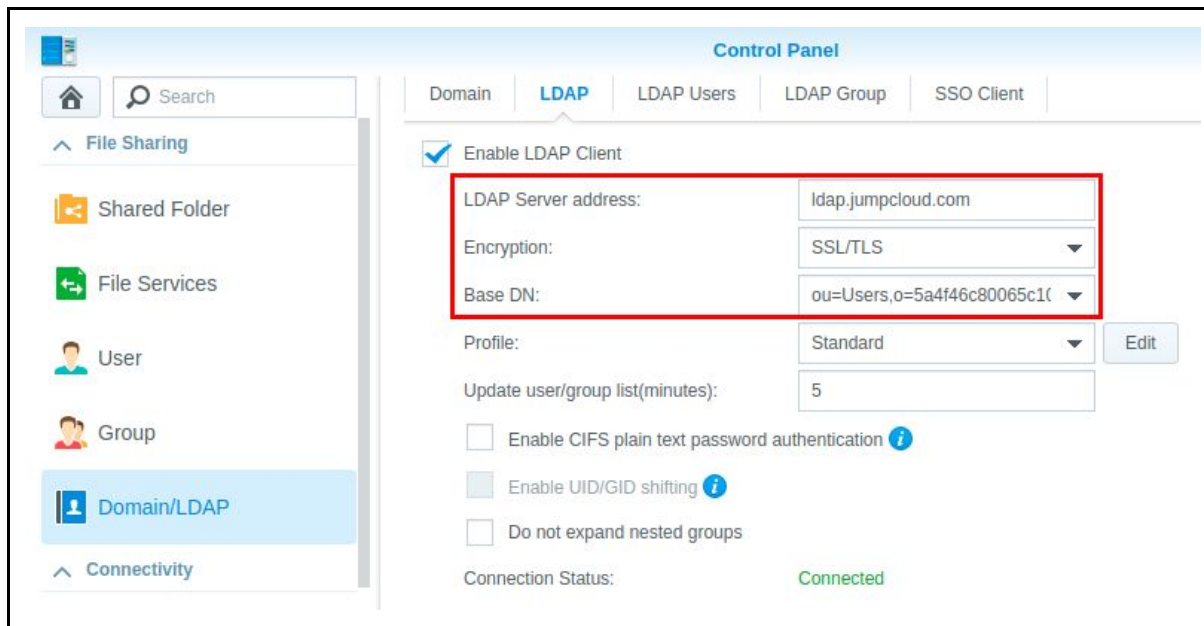
The following users are syncing to the JumpCloud LDAP Instance:

Search

4 of 4 users bound ☐ show bound users (4)

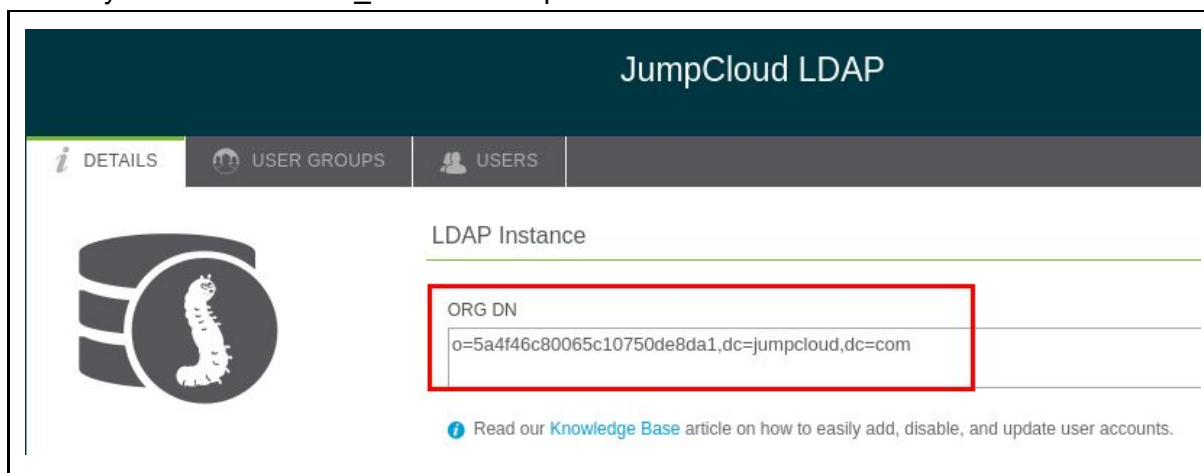
<input checked="" type="checkbox"/>	STATUS	NAME	BIND STATUS
<input checked="" type="checkbox"/>	✓	u001 u001	LDAP Bind DN
<input checked="" type="checkbox"/>	✓	u002 u002	None
<input checked="" type="checkbox"/>	✓	u003 u003	LDAP Bind DN
<input checked="" type="checkbox"/>	✓	testuser1 testuser1	LDAP Bind DN Samba Service Account

7. Login DSM, and go to [Control Panel] -> [Domain/LDAP] -> [LDAP]



8. Setup LDAP Client

- Server address: ldap.jumpcloud.com
- Encryption: must be SSL/TLS or STARTTLS
- Base DN: ou=Users,o=YOUR_ID,dc=jumpcloud,dc=com
 - you can find YOUR_ID in the JumpCloud



9. Click [Apply] to save change

- you have to enter the Bind DN and Password

testuser1

DETAILS USER GROUPS SYSTEMS DIRECTORIES ATTRIBUTES

User Configuration

FIRST NAME: testuser1 LAST NAME:

USERNAME: testuser1 EMAIL: testuser@test.com

☐ Enable Global Administrator
When enabled, this user will have administrator/sudo privileges on all systems they are bound to. When disabled, privileges may be set on a per system basis using the Systems tab.

LDAP DISTINGUISHED NAME:
uid=testuser1,ou=Users,o=5a4f46c80065c10750de8da1,dc=jumcloud,dc=com

☒ Enable as LDAP Bind DN
User can bind to and search the JumpCloud LDAP service.

10. Check User/Group List

- you can find user list in the LDAP Users

- you can find group list in the LDAP Group

Control Panel

Domain LDAP **LDAP Users** LDAP Group SSO Client

Edit User Home Update LDAP Data Search

Name	Description	Status
u001@jumcloud.com	u001	Normal
u002@jumcloud.com	u002	Normal
u003@jumcloud.com	u003	Normal
testuser1@jumcloud.com	testuser1	Normal

11. Done!! You can use File Sharing with NT-Password now.

Reference

[1]

<https://support.jumpcloud.com/customer/en/portal/topics/947955-getting-started/articles>

[2]

<https://support.jumpcloud.com/customer/en/portal/articles/2440742-configuring-a-synology-nas-to-use-jumpcloud-s-ldap-as-a-service>

[3]

<https://support.jumpcloud.com/customer/portal/articles/2873709>