How do I configure Ezeelogin to authenticate using Windows_AD(Pam-LDAP) in CentOS?

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Integration of WINDOWS-AD (PAM-LDAP) in CentOS 7/6

Overview: This article details the steps to integrate WINDOWS-AD (PAM-LDAP) in CentOS 7/6. It includes PHP-LDAP installation, LDAP configuration via web GUI, and setting up PAM_LDAP for SSH access, ensuring seamless LDAP user import and configuration verification.

Make sure that the PHP-LDAP extension is installed on the server

```
root@gateway:~# yum install php-ldap openldap openldap-clients; apachectl restart
```

Step 1: Login to **Web-GUI** -> **open settings** -> **Ldap**

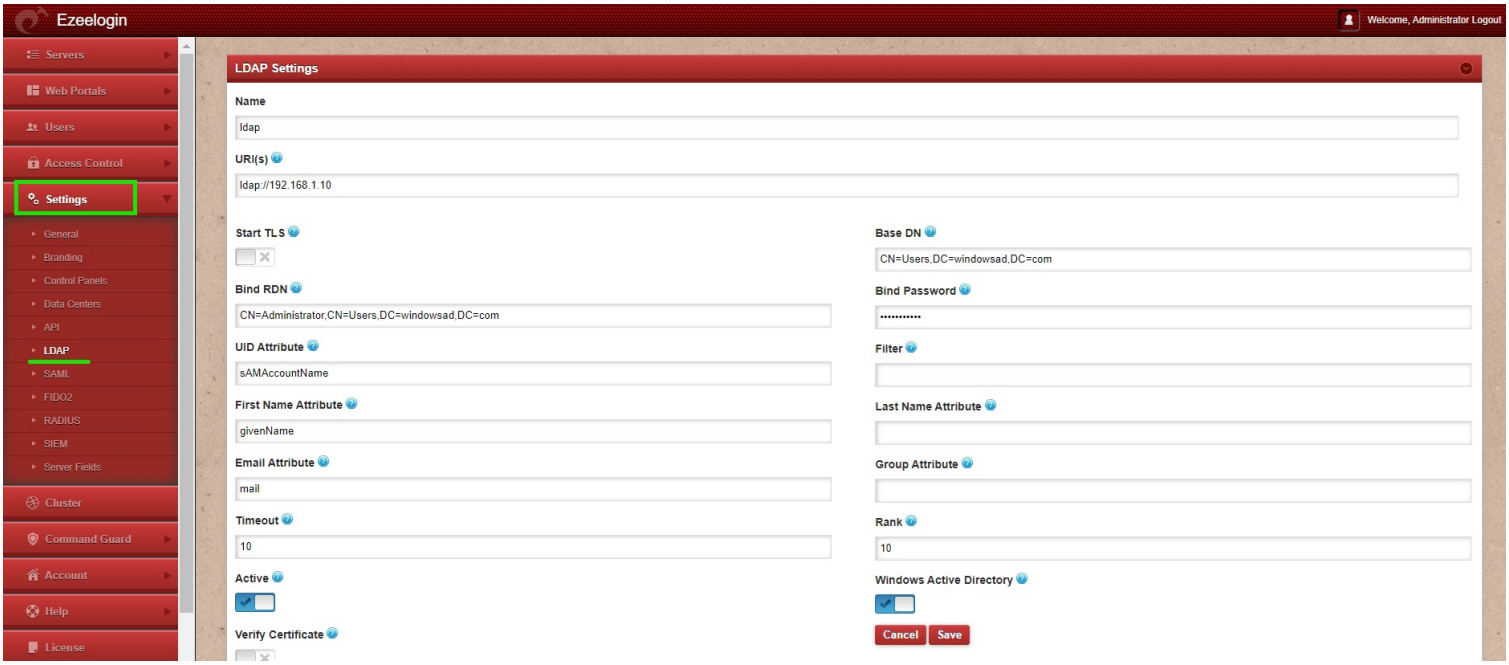
> **How to find base DN and bind RDN**

Step 2: Add the details of **LDAP configurations** & **enable Windows Active Directory.**

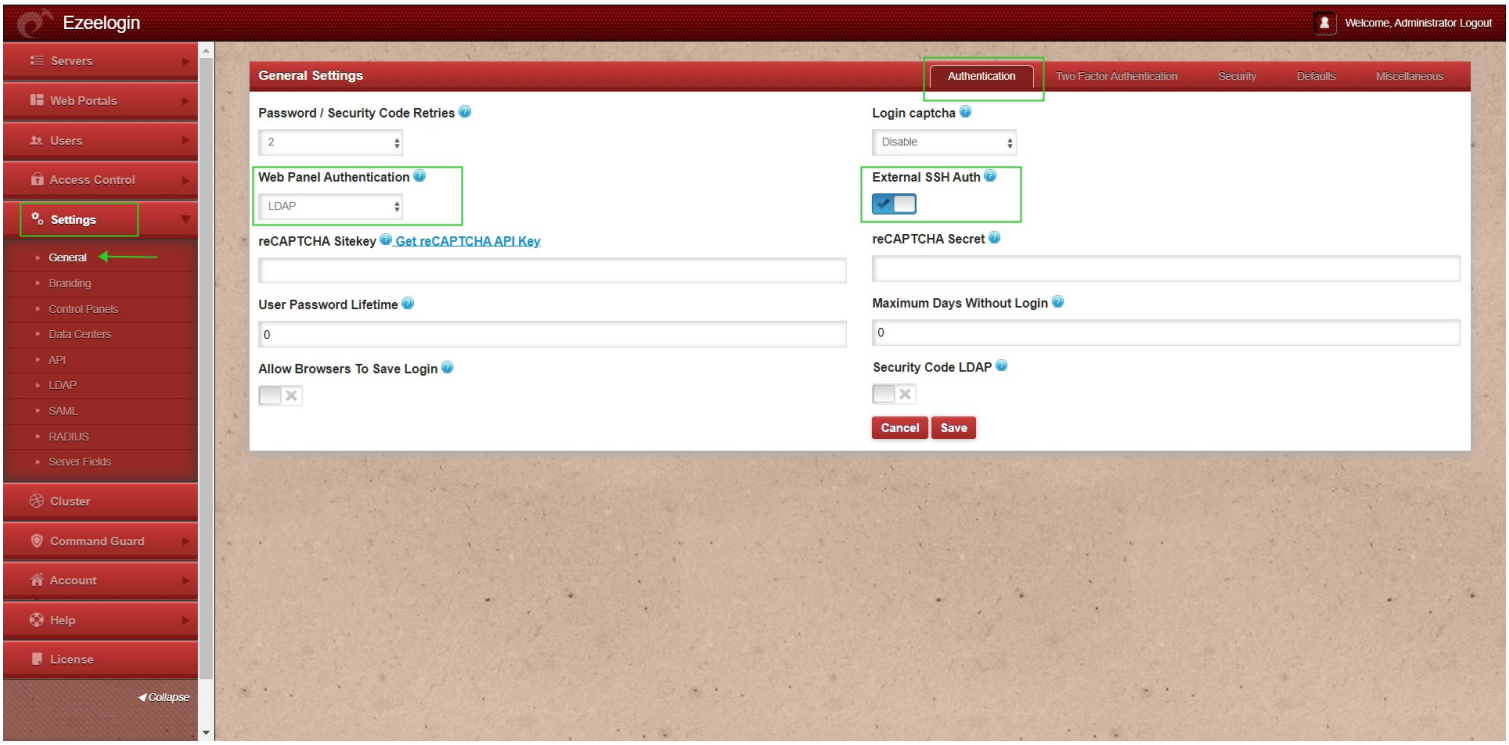
Multiple URIs or a list of URIs can be specified in the format:

- ldaps://host.com:636/ ldaps://host.com:636/

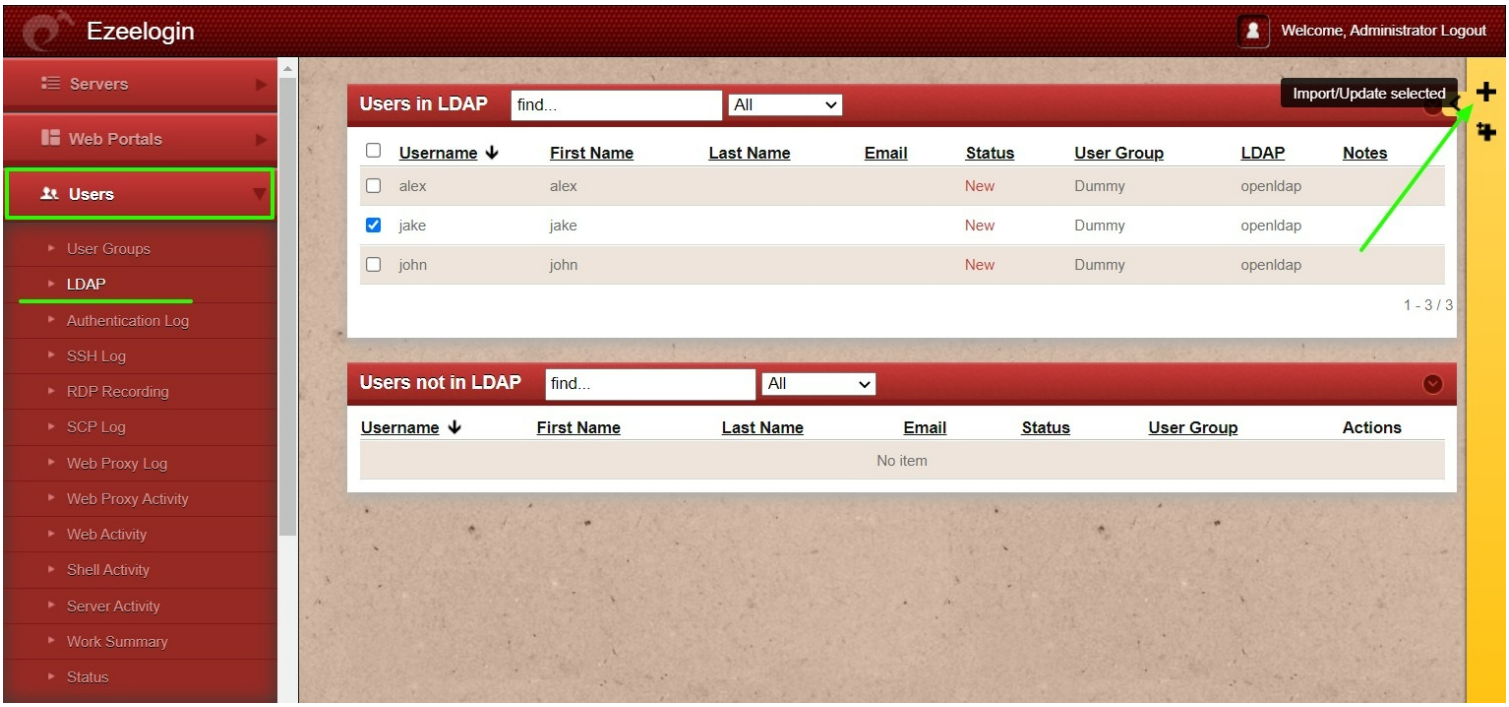
(Only the protocol, hostname, and port fields are allowed.)



Step 3: Under **Settings** -> **General Settings** -> **Authentication** -> **Change web panel authentication to LDAP** & **enable External SSH Auth**

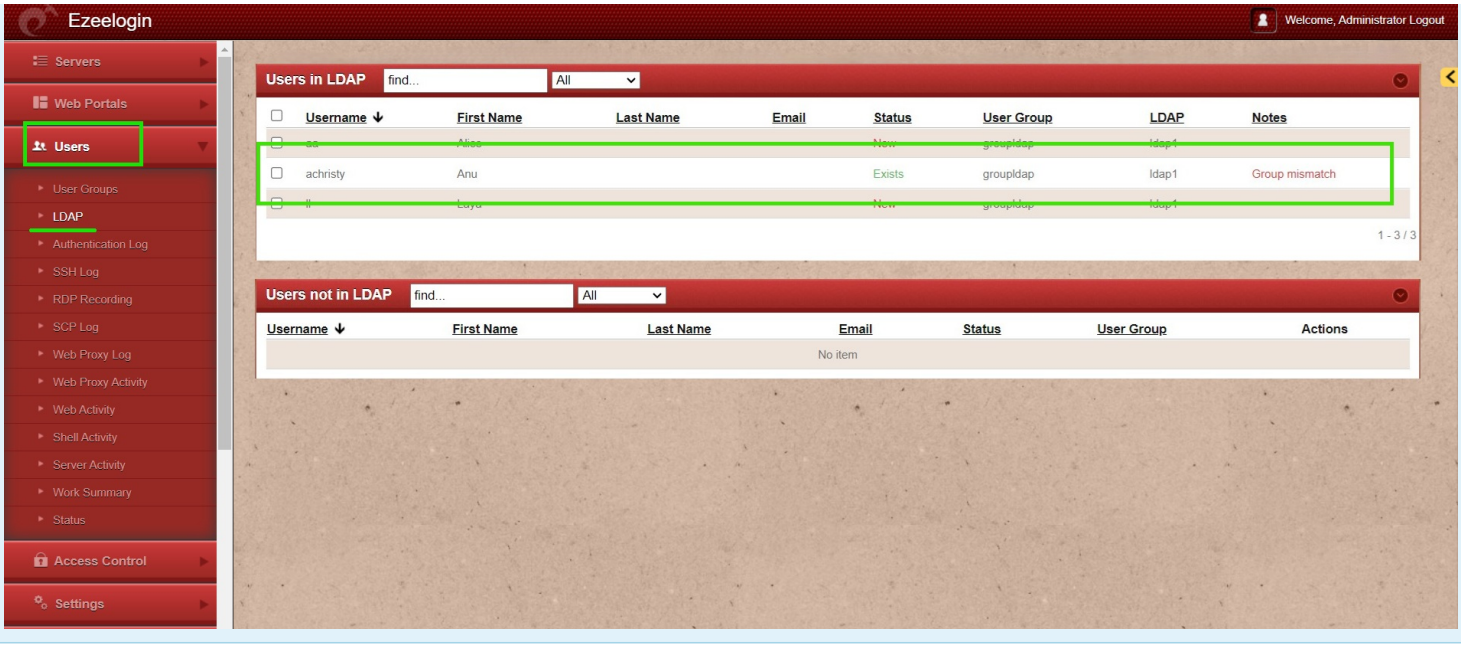


Step 4: Select the LDAP users and **import** them to Ezeelogin



Step 5: You can confirm the imported LDAP users were listed in the users tab. After the successful import you can login as the LDAP user.

Note: When importing an LDAP user, they will be assigned to the default group or the mapped user group. After the import, if we change the LDAP user to another user group, we will receive a note saying "Group Mismatch." This is not an error.



Note:

After importing the users to Ezeelogin, log in with the user and set up security code for the user under **Account > Password > New Security Code.**

Step 6: Make sure that UNIX ATTRIBUTES are enabled on WINDOWS(2003,2008,2012) SERVER

Note:

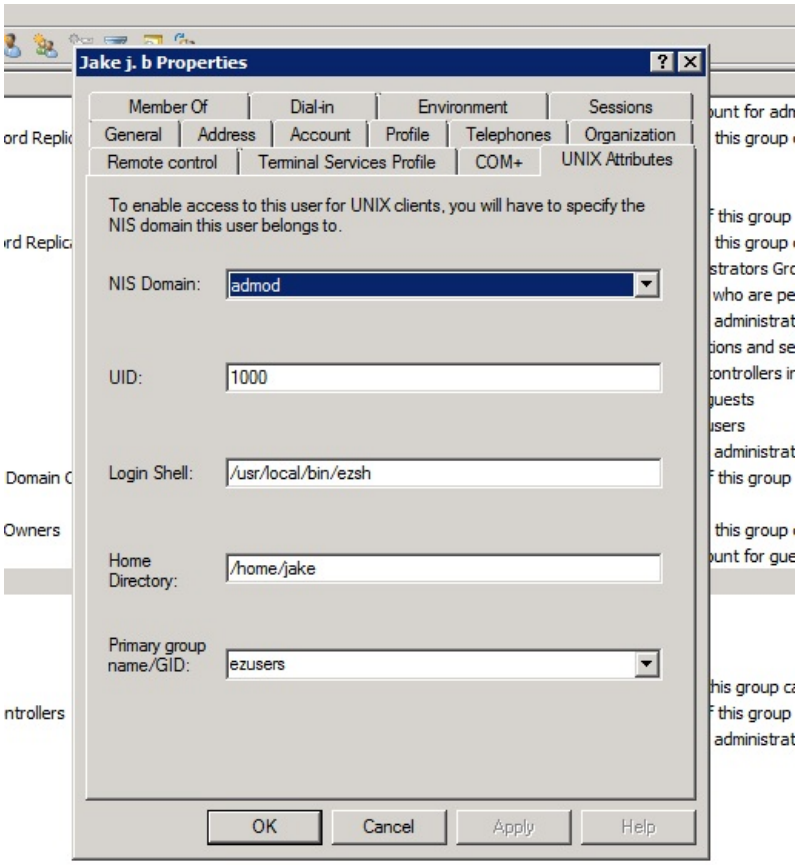
You do not need to install Unix attributes on windows 10, windows 2012 and windows 2016 server OS

Step 7: Login to Windows server, open Command Prompt, and enter the following command:

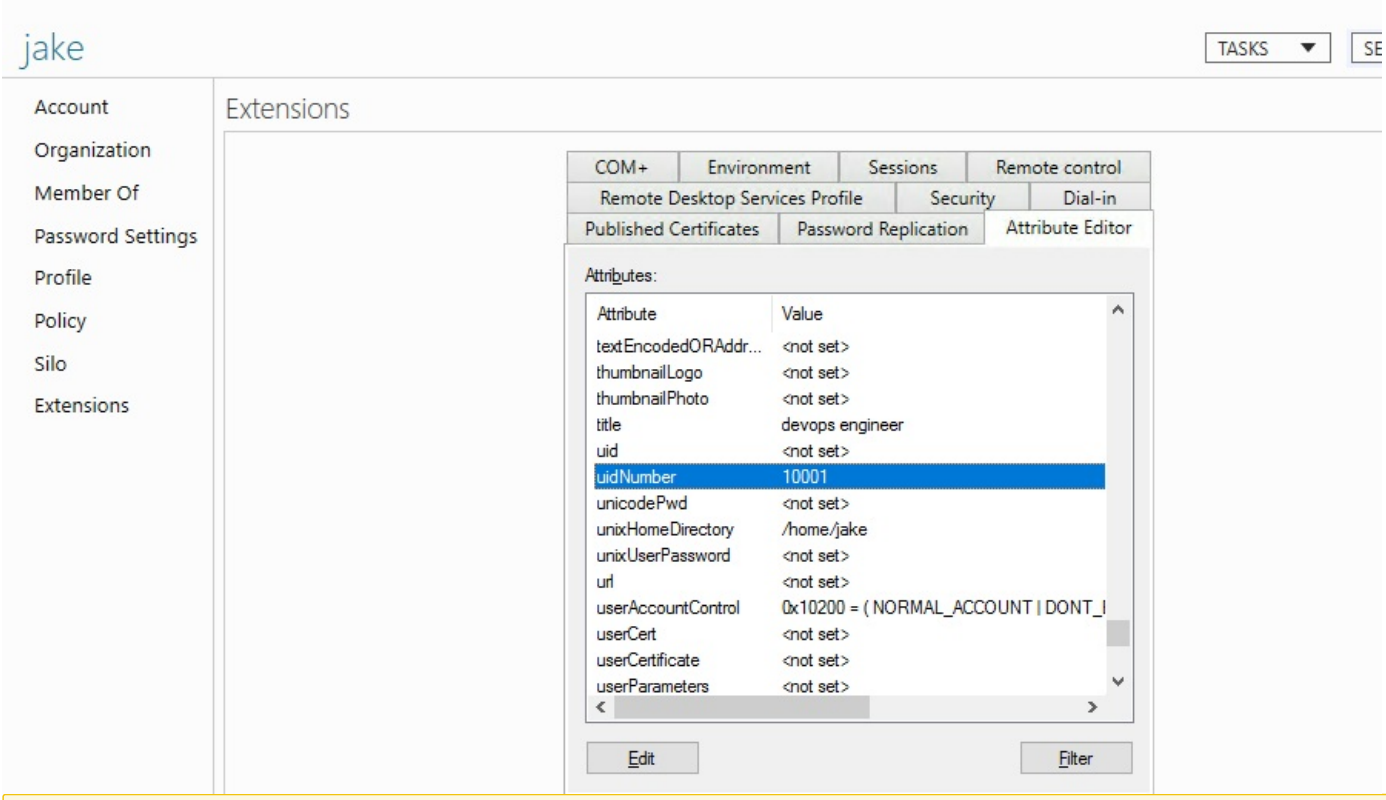
```
Dism.exe/online/enable-feature /featurename:nis  /all
```

Reboot the server to complete the installation

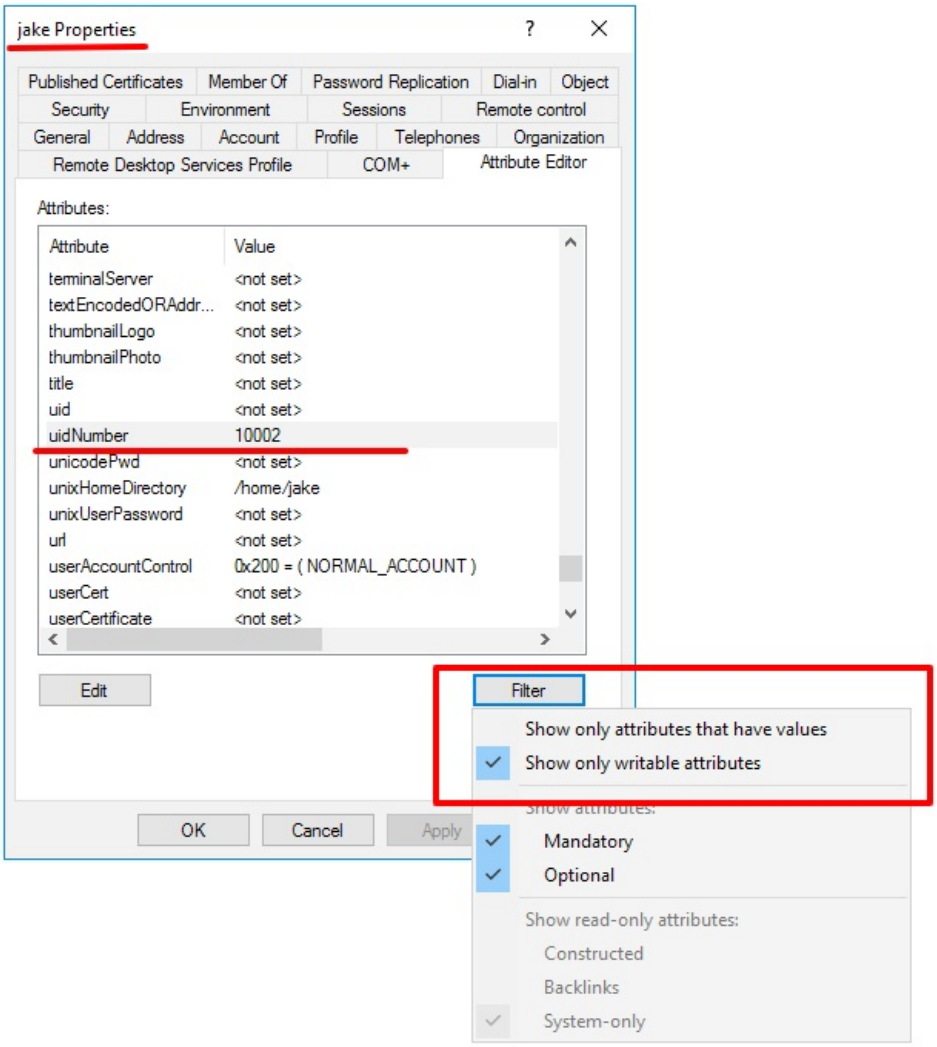
Win 2008 Unix Attributes



Window 2016 AD for a user . Note that the attributes such as **uidNumber** = 10001 , **gidNumber** = 12001 , **unixHomeDirectory** = /home/jake , **loginShell**=/usr/local/bin/ezsh are set.



Note: For the Unix Attributes uidNumber, gidNumber, and login shell to be visible, make sure to click on the Filter button and select ONLY " Show Only Writable Attributes" as shown below.



Let's configure PAM_LDAP Authentication for SSH

Login to Ezeelogin ssh server to configure pam-LDAP.

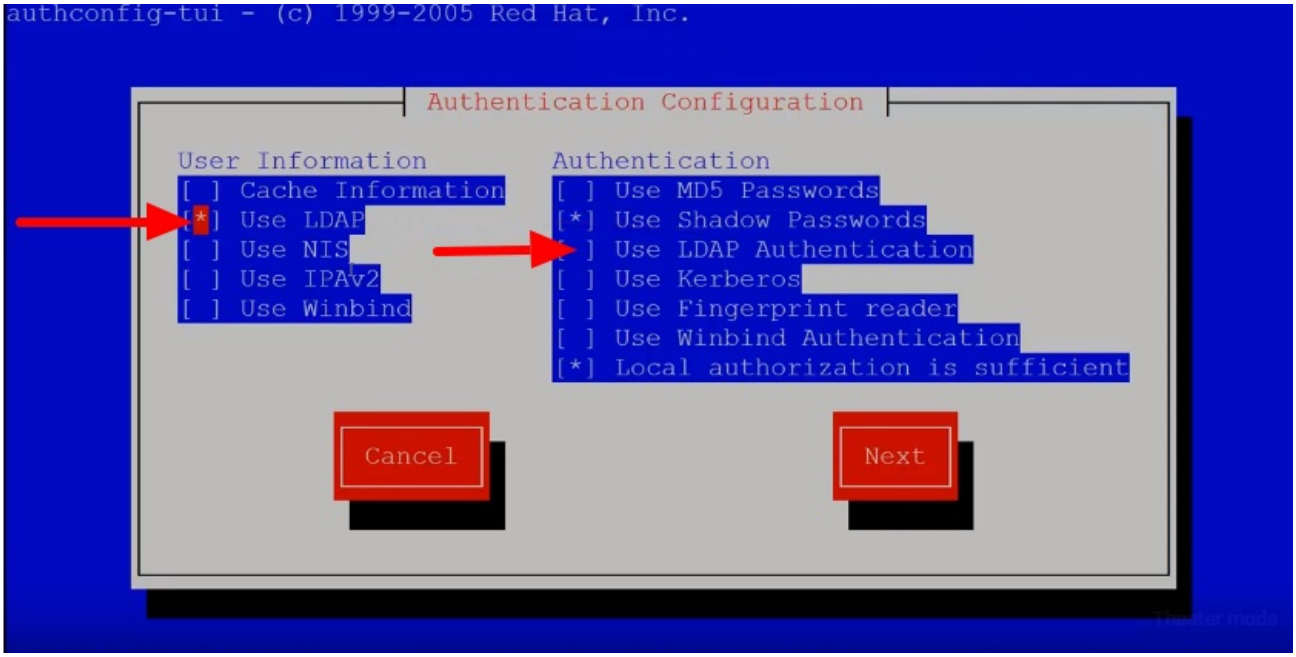
Step 1: Install **pam-LDAP module** by the following command

```
root@gateway:~# yum install nss-pam-ldapd nscd
```

Step 2: Enter the command to **auto-configure**

```
root@gateway:~# authconfig-tui
```

Step 3: Select use **LDAP** & **use LDAP authentication**



Step 4: Add **binddn**,**bind password** & Active Directory Mappings to **/etc/nslcd.conf**

```
root@gateway:~# vi /etc/nslcd.conf
uri ldap://10.11.1.231

ldap_version 3

base cn=users,dc=admod,dc=net

binddn cn=Administrator,cn=Users,dc=admod,dc=net

bindpw admod_2012

filter passwd (objectClass=User)
map passwd uid sAMAccountName
map passwd homeDirectory unixHomeDirectory

map passwd loginShell  "/usr/local/bin/ezsh"

map passwd gidNumber   "100"

ssl no
tls_cacertdir /etc/openldap/cacerts
```

Note: If you are using LDAPS, then change SSL to YES

Step 5: Enable auto-create home directory on login by the following command

```
root@gateway:~# authconfig --enablemkhomedir --update
```

Step 6: Restart **nslcd** & **nscd** service

```
root@gateway:~# service nslcd restart && service nscd restart
```

Note: Ensure the login shell of LDAP user is /usr/local/bin/ezsh

Step 7: Now run the **id/finger** command and see whether you are able to get AD user details

```
root@gateway:~# finger jake
Login: jake                     Name: jake
Directory: /home/jake           Shell: /usr/local/bin/ezsh
Last login Tue Jul 3 12:23 (IST) on pts/2 from 10.11.1.189
No mail.
No Plan.
```

```
root@gateway:~# id jake
uid=10001(jake) gid=12000 groups=12000
```

Note: Run a ldapsearch to check the values returned from your AD server as follows. This is used for troubleshooting.

```
root@gateway:~# ldapsearch -x -LLL -E pr=200/noprompt -h 10.11.1.164 -D "administrator@ad2016.admod.net" -w admod_2016 -b "cn=jake,cn=users,dc=ad2016,dc=admod,dc=net"
dn: CN=jake,CN=Users,DC=ad2016,DC=admod,DC=net
objectClass: top
objectClass: person
objectClass: organizationalPerson
objectClass: user
cn: jake
givenName: jake
distinguishedName: CN=jake,CN=Users,DC=ad2016,DC=admod,DC=net
instanceType: 4
whenCreated: 20180703063304.0Z
whenChanged: 20180703063554.0Z
displayName: jake
uSNCreated: 45128
uSNChanged: 45136
name: jake
objectGUID:: ldpkFlnRs0O6irphlTq1AA==
userAccountControl: 512
badPwdCount: 0
codePage: 0
countryCode: 0
badPasswordTime: 0
lastLogoff: 0
```

lastLogon: 0

pwdLastSet: 131750731848783837

primaryGroupID: 513

objectSid:: AQUAAAAAAAUVAAAAmhs/bgMv2mlWATm4VQQAAA==

accountExpires: 9223372036854775807

logonCount: 0

sAMAccountName: jake

sAMAccountType: 805306368

userPrincipalName: jake@ad2016.admod.net

objectCategory: CN=Person,CN=Schema,CN=Configuration,DC=ad2016,DC=admod,DC=net

dSCorePropagationData: 16010101000000.0Z

uidNumber: 10001

gidNumber: 12000

unixHomeDirectory: /home/jake

loginShell: /usr/local/bin/ezsh

pagedresults: cookie=

Related Articles:

Configure Ezeelogin to authenticate using Windows_AD(Pam-Ldap) in Ubuntu.

How do I configure Ezeelogin to authenticate using OpenLdap(Pam-Ldap) in CentOS?

Can we map the existing user group in LDAP to ezeelogin as the ezeelogin user group?

Online URL: https://www.ezeelogin.com/kb/article/how-do-i-configure-ezeelogin-to-authenticate-using-windows_ad-40;pam-ldap-41;-in-centos-186.html