Configure Ezeelogin to authenticate using Windows_AD / OpenLDAP in Debian?

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Configure Ezeelogin to authenticate using Windows_AD / OpenLDAP (Pam-Ldap) in Debian.

Overview: This article describes the steps to configure Ezeelogin to authenticate using Windows Active Directory or OpenLDAP (PAM-LDAP) on Debian, including installing necessary PHP and PAM-LDAP modules, adjusting configuration files, and validating the setup.

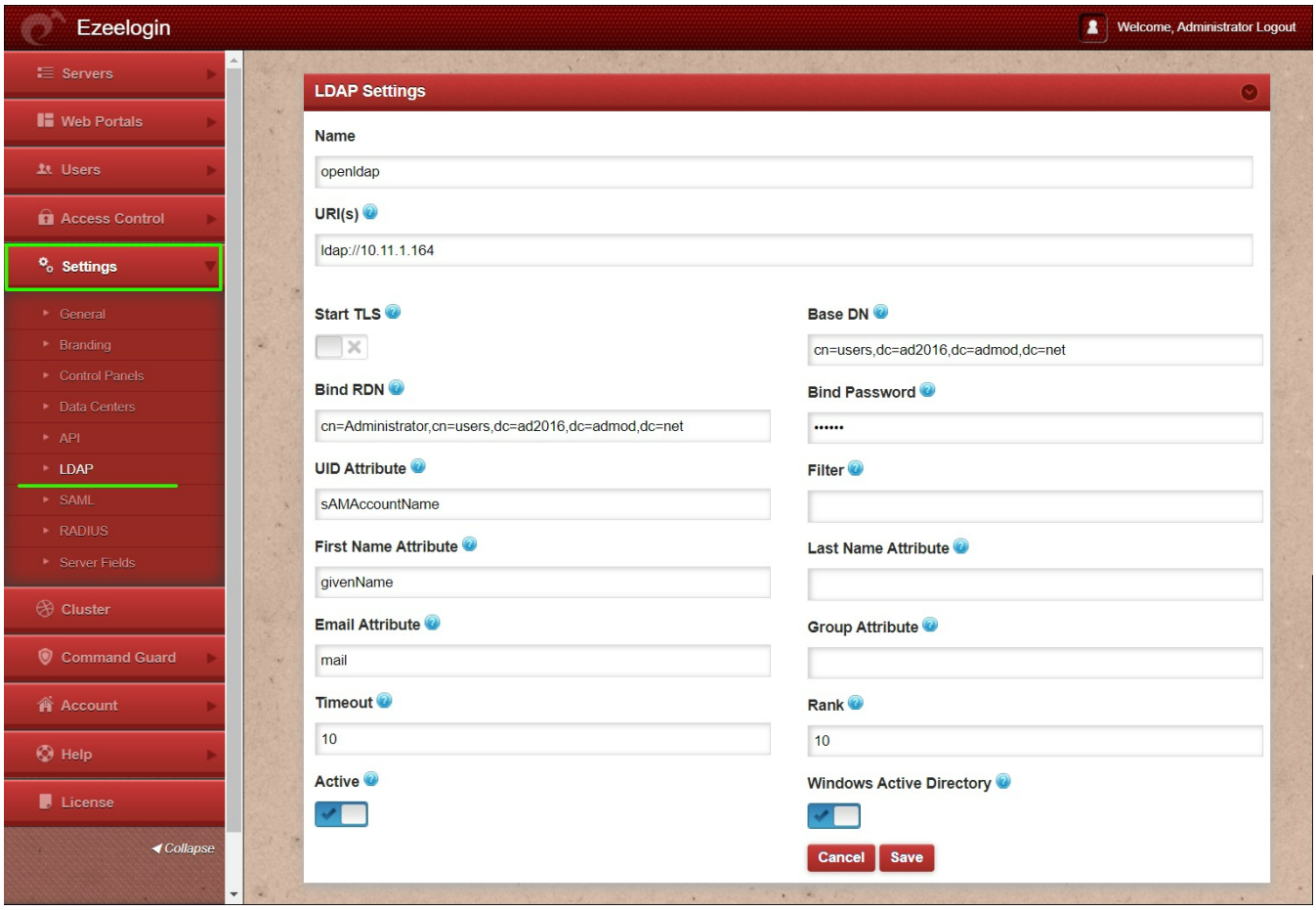
Note: Make sure that the PHP-LDAP extension is installed on the server. Replace the PHP version in the below command.

```
root@jumpserver:~# apt-get install phpx.x-ldap

eg: --------->  :~# apt-get install php8.2-ldap

root@jumpserver:~# systemctl restart apache2
```

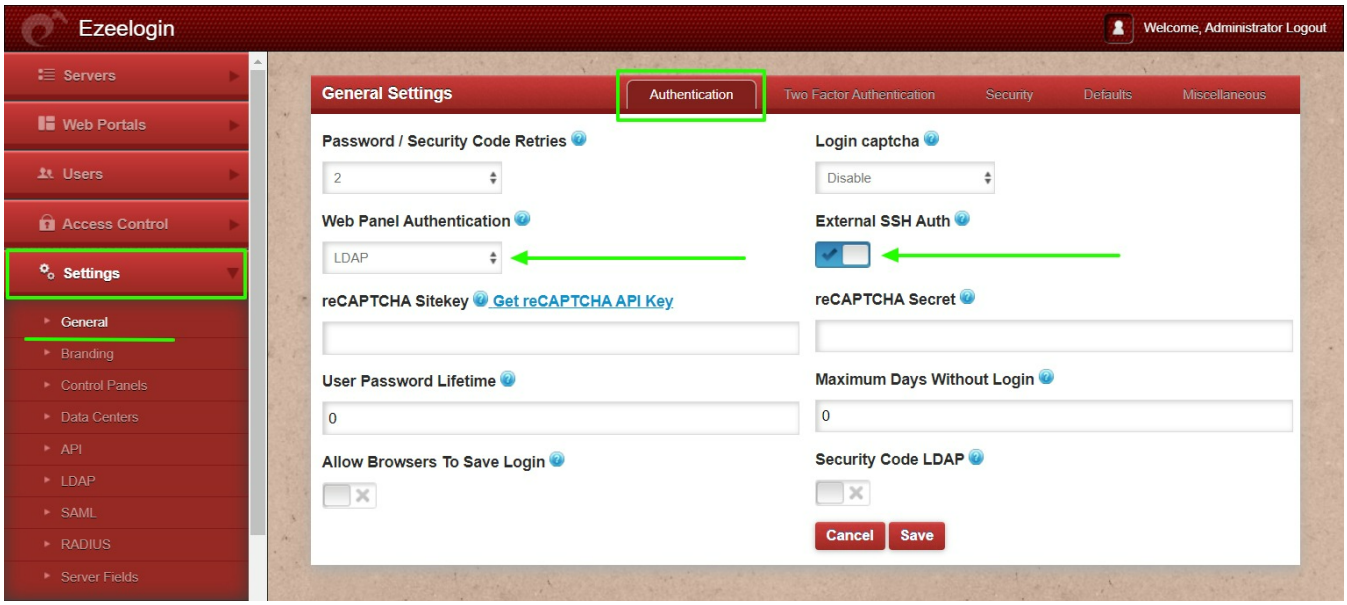
1. Login to **Web-GUI > open settings > Ldap**

How to find base DN and bind RDN

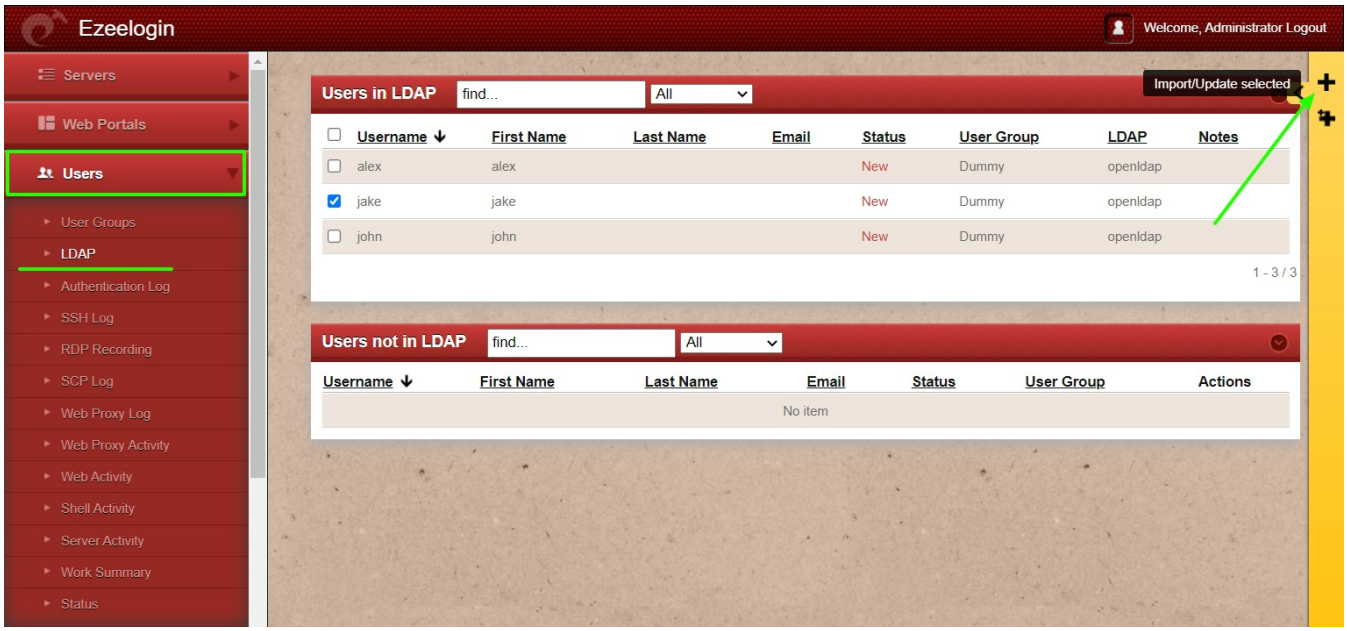
- Add the details of LDAP configurations & Check **WINDOWS ACTIVE DIRECTORY** if you are authenticating with Windows **AD** & **Save.**



2. Open **Settings > General > Authentication >** change web panel **authentication to LDAP** & Check **External SSH Auth.**



3. Select the LDAP users and import them to Ezeelogin.



- You can confirm the imported LDAP users were listed in Users.
- Now you can log in to Ezeelogin with LDAP users in Ezeelogin GUI.

- After importing the users to Ezeelogin, log in with the user and set up the security code for the user under Account > Password > New Security Code.
- Skip the 4th & 5th steps if you are configuring OpenLDAP.

4. Make sure that UNIX ATTRIBUTES is enabled on WINDOWS(2003,2008,2012) SERVER.

Note: You do not need to install unix attributes on Windows 10 and Windows 2016 server OS.

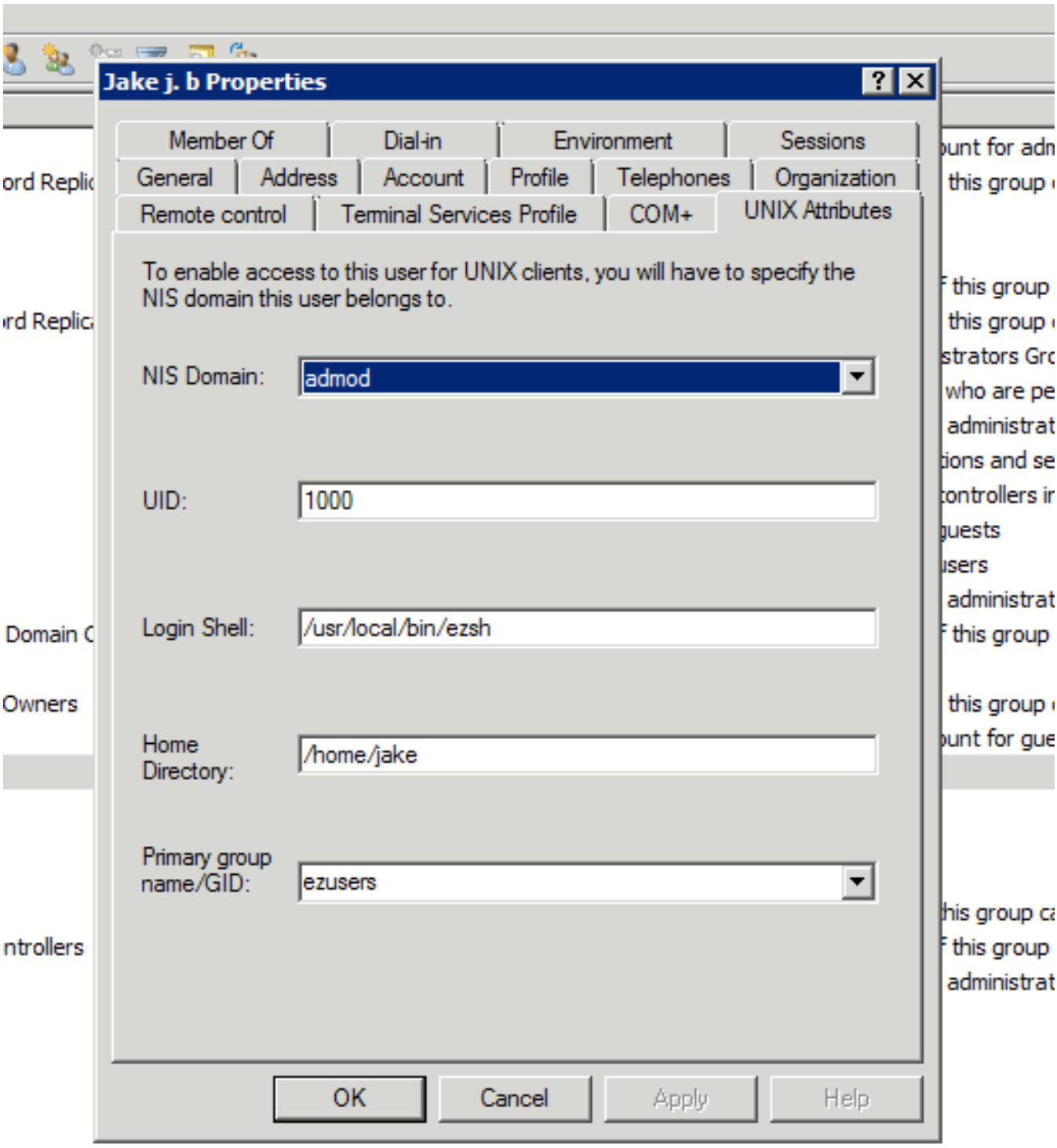
- Log in to the Windows server & open the command prompt.
- Enter the below command:

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

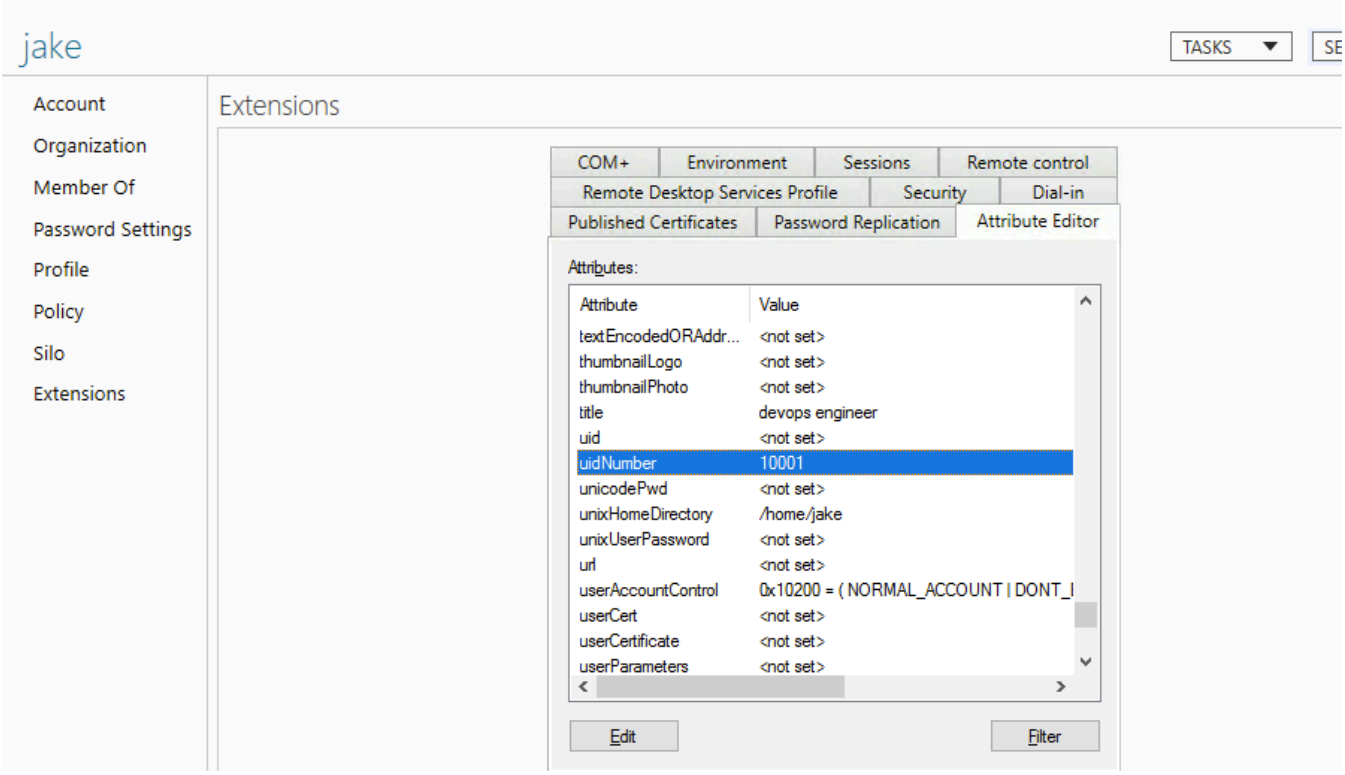
- Reboot the server to complete the installation

5. Make sure to add the values for UID, GID, Login Shell, and Home Directory.

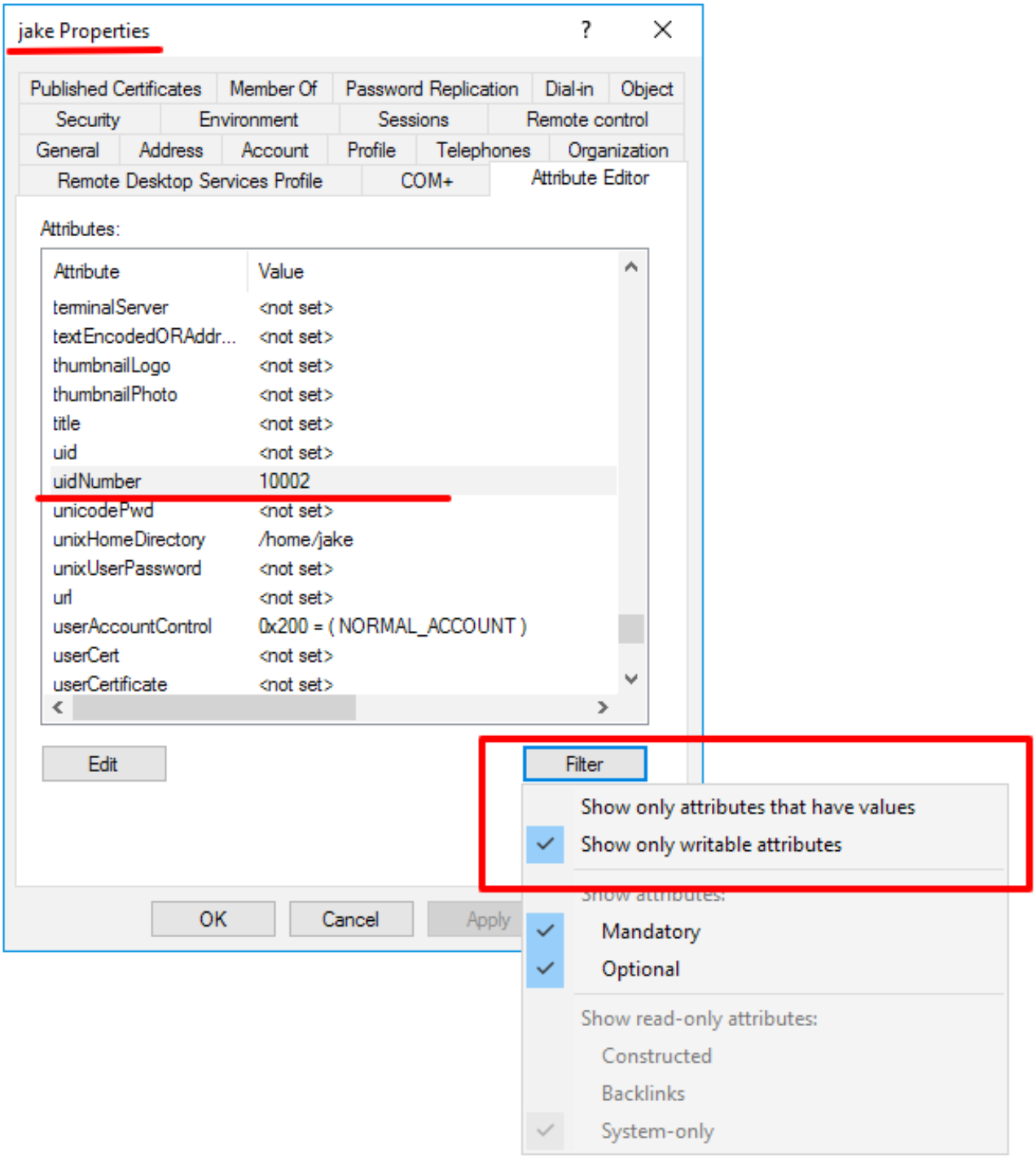
Win 2008 Unix Attributes



- For **Window 2016** AD user set the attributes such as **uidNumber = 10001** , **gidNumber = 12001** , **unixHomeDirectory = /home/jake** , **loginShell=/usr/local/bin/ezsh**



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


jake Properties
Published Certificates
Member Of
Password Replication
Dial-in
Object
Security
Environment
Sessions
Remote control
General
Address
Account
Profile
Telephones
Organization
Remote Desktop Services Profile
COM+
Attribute Editor
Attributes:
Attribute
Value
terminalServer
<not set>
textEncodedORAddr...
<not set>
thumbnailLogo
<not set>
thumbnailPhoto
<not set>
title
<not set>
uid
<not set>
uidNumber
10002
unicodePwd
<not set>
unixHomeDirectory
/home/jake
unixUserPassword
<not set>
url
<not set>
userAccountControl
0x200 = (NORMAL_ACCOUNT)
userCert
<not set>
userCertificate
<not set>
Edit
Filter
Show only attributes that have values
Show only writable attributes
Mandatory
Optional
Show read-only attributes:
Constructed
Backlinks
System-only
OK
Cancel
Apply

Let's configure PAM_LDAP Authentication for SSH

- Login to Ezeelogin SSH server to configure pam-LDAP.

1. Install the pam-LDAP module by the following command:

```
root@jumpserver:~# apt install libnss-ldap libpam-ldap ldap-utils
nscd
```

2. Enter LDAP URI, Base dn, select Ldap version 3, Bindpassword, and BInddn on prompts.

- You can reconfigure the settings with the following command

```
root@jumpserver:~# dpkg-reconfigure libnss-ldap
```

Note: Skip the 3rd step if you are configuring OpenLDAP.

3. Add Active Directory Mappings to /etc/libnss-ldap.conf

- Search for RF 2307 (AD) mapping & add or uncomment the following lines.

```
root@jumpserver:~# nano /etc/libnss-ldap.conf

nss_map_objectclass posixAccount user

nss_map_attribute uid sAMAccountName
```

```
nss_map_attribute homeDirectory unixHomeDirectory

nss_override_attribute_value loginShell /usr/local/bin/ezsh
```

4. Append 'ldap' to password, group & shadow in /etc/nsswitch.conf

```
root@jumpserver:~# cat /etc/nsswitch.conf

# /etc/nsswitch.conf
#
# Example configuration of GNU Name Service Switch functionality.
# If you have the `glibc-doc-reference' and `info' packages
installed, try:
# `info libc "Name Service Switch"' for information about this file.

passwd: files systemd ldap
group: files systemd  ldap
shadow: files  ldap
gshadow: files

hosts: files mdns4_minimal [NOTFOUND=return] dns myhostname
networks: files

protocols: db files
services: db files
ethers: db files
rpc: db files

netgroup: nis
```

5. Enable auto-create home directory on login by adding the following to **/etc/pam.d/common-session** by the following command

```
root@jumpserver:~# echo "session optional pam_mkhomedir.so
skel=/etc/skel umask=077" >> /etc/pam.d/common-session
```

6. Edit /etc/pam.d/common-password and Remove the option '**use_authtok**' on the password '**pam_ldap**' module configuration as below.

```
root@jumpserver:~# vi /etc/pam.d/common-password

# Remove the option 'use_authtok' on the password 'pam_ldap' module
configuraiton as below.

password [success=1 user_unknown=ignore default=die]
pam_ldap.so  try_first_pass
```

7. Restart nscd service

```
root@jumpserver:~# service nscd restart
```

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

- Now run the id/finger command and see whether you are able to get AD user details

```
[root@jumpserver ~]# finger jake

Login: jake Name: jake t

Directory: /home/jake Shell: /usr/local/bin/ezsh

Last login Wed Jun 13 05:02 (EDT) on pts/1 from 10.1.1.13

No mail.

No Plan.

[root@jumpserver ~]# id jake

uid=10001(jake) gid=120001(domain users) groups=1547600513(domain
users)
```

Note: For troubleshooting: Ensure that it returns the values of uid, gid, home directory, and login shell.

```
[root@jumpserver]# 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=
```

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