

# Make Samba work with iRedMail's OpenLDAP database backend

**First you should follow the steps in this howto to use iRedMail's OpenLDAP database for Unix user authentication!**

## Generate SambaSID

### Create sidgenerator.sh file

Create the sidgenerator.sh file with the following content:

```
#!/bin/sh
sambaSID=
for num in 1 2 3 ;do
    randNum=$(od -vAn -N4 -tu4 < /dev/urandom | sed -e 's/ //g')
    if [ -z "$sambaSID" ]; then
        sambaSID="S-1-5-21-$randNum"
    else
        sambaSID="${sambaSID}-${randNum}"
    fi
done
echo $sambaSID
exit 0
```

*This script is created by naterator*

# Make it executable

```
chmod +x sidgenerator.sh
```

# Generate sid

```
bash ./sidgenerator.sh
```

# Set up Samba

## Install samba

```
apt-get install samba smbldap-tools -y
```

## Edit `/etc/samba/smb.conf`

We use root dn because we want to allow samba to create the `sambaDomainName=SERVERNAME` entry.

```
[global]
...
netbios name = SERVERNAME
...
passdb backend = ldapsam:ldap://127.0.0.1
ldap ssl = no
ldap admin dn = cn=Manager,dc=domain,dc=com
ldap suffix = dc=domain,dc=com ...
```

# Set LDAP password for Samba

Enter the password of `ldap admin dn`

```
smbpasswd -w *****SECRETPASSWORD*****
```

## Restart Samba

```
service smbd restart
```

# Set up OpenLDAP

## Add the needed Samba settings to the domain group

```
{ou=Groups,domainName=domain.com,o=domains,dc=domain,dc=com}
```

```
objectClass->(new entry)->sambaGroupMapping
```

```
sambagrouptype=2sambaSID=YOU-NEED-GENERATE-WITH-SCRIPT
```

Valid numbers for `sambagrouptype` entry

```
SID_NAME_USE_NONE=0,  
SID_NAME_USER=1,  
SID_NAME_DOM_GRP=2,  
SID_NAME_DOMAIN=3,  
SID_NAME_ALIAS=4,
```

```
SID_NAME_WKN_GRP=5,  
SID_NAME_DELETED=6,  
SID_NAME_INVALID=7,  
SID_NAME_UNKNOWN=8,SID_NAME_COMPUTER=9
```

## Set up user

```
{ou=Users,domainName=domain.com,o=domains,dc=domain,dc=com}
```

```
objectClass->(new entry)->sambaSamAccount
```

## Create the following entries under the user

```
(new attribute)->sambaGroupMapping
```

```
sambaSID=SID-OF-THE-SAMBA-SERVER-3000 # Increment the 3000 partsambaAcctFlags=[U]  
sambaLMPassword=*****SAMBAPASSWORD*****  
sambaNTPassword=*****SAMBAPASSWORD*****sambaPrimaryGroupSID=SID-OF-THE-  
CREATED-GROUP- # Add '-' character to the end of the group sidsambaPwdLastSet=-1
```

# Troubleshoot

## Samba

1. Troubleshooting Samba

## OpenLDAP

1. Troubleshooting OpenLDAP

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