**Configure a system to use an existing LDAP directory service for user and group information.**

**LDAP Server Configuration**

In order to test a **LDAP** client configuration, you will need to [configure a LDAP directory service](https://www.certdepot.net/rhel7-configure-ldap-directory-service-user-connection/).  
The **LDAP** server is called **instructor.example.com** in this procedure.

**LDAP Client Configuration**

As the **authconfig-tui** is deprecated, to configure the **LDAP** client side, there are two available options: **nslcd** and **sssd**.  
In this tutorial, the **nslcd** option will be used, see the [authconfig tutorial](https://www.certdepot.net/ldap-client-configuration-authconfig/) for the **sssd** option.

Install the following packages:

# **yum install -y openldap-clients nss-pam-ldapd**

Note: Just to mention that **Sander van Vugt** advises to install the **Directory Client** group package: **# yum group install “Directory Client”**

Then, type:

# **authconfig --enableforcelegacy --update**

# **authconfig --enableldap --enableldapauth --ldapserver="instructor.example.com" \**

**--ldapbasedn="dc=example,dc=com" --update**

Note1: According to your requirements, you can need to specify the **–enablemkhomedir** option after the installation of the **oddjob-mkhomedir** package. The option creates a local user home directory at the first connection if none exists.  
Note2: Type **# authconfig –help | grep ldap** to remember the necessary options.

Put the **LDAP** server certificate into the **/etc/openldap/cacerts** directory:

# **scp root@instructor.example.com:/etc/openldap/certs/cert.pem \**

**/etc/openldap/cacerts/cert.pem**

Apply the correct **SELinux** context to the certificate:

# **restorecon /etc/openldap/cacerts/cert.pem**

Activate the **TLS** option:

# **authconfig --enableldaptls --update**

Test the configuration:

# **getent passwd ldapuser02**

ldapuser02:\*:1001:1001:ldapuser02:/home/guests/ldapuser02:/bin/bash

**NFS Server Configuration**

To get the home directory mounted, you need to [configure a NFS server](https://www.certdepot.net/rhel7-provide-nfs-network-shares-specific-clients/).  
The **NFS** server is called **instructor.example.com** in the procedure.  
Note: It’s not required to have the **LDAP** server and the **NFS** server on the same machine, it’s only easier.

**Automounter Client Configuration**

Install the following packages:

# **yum install -y autofs nfs-utils**

Create a new indirect **/etc/auto.guests** map and paste the following line:

**\* -rw,nfs4 instructor.example.com:/home/guests/&**

Add the following line at the beginning of the **/etc/auto.master** file:

**/home/guests /etc/auto.guests**

Start the **Automounter** daemon and enable it at boot:

# **systemctl enable autofs && systemctl start autofs**

Test the configuration:

# **su - ldapuser02**