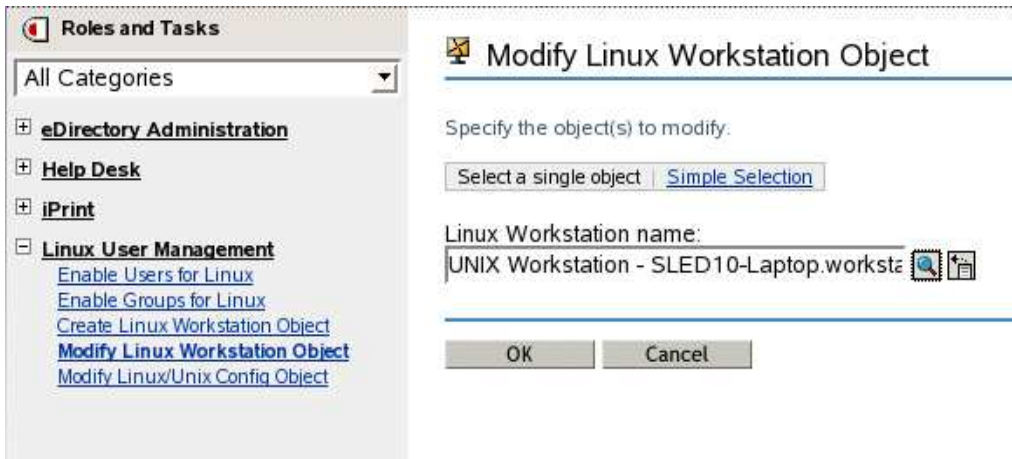


# Novell Client for Linux Single Sign-on

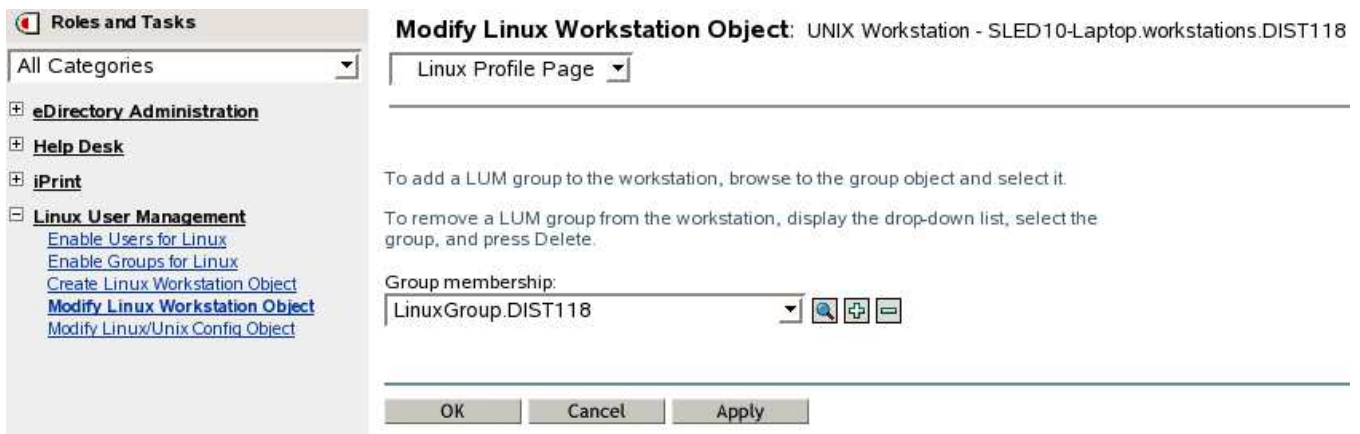
1. Make sure the following modules or newer are installed:
  - pam-0.99.3.0-29.4
  - pam-modules-10-2.2
  - pam-devel-0.99.3.0-29.4
  - glibc-devel-2.4-31.2
  - glibc-2.4-31.2
  - gcc-4.1.0-28.4
  - make-3.80-202.2
  - kernel-source-2.6.16.21-0.8
  - novell-lum-2.2.0-81.12
2. To determine which of the modules are already installed, issue the following command at the bash prompt.
  - `rpm -q novell-lum pam pam-modules pam-devel glibc-devel glibc gcc make kernel-source`
3. To install the missing modules, type the following command at the bash prompt. (Installation Media may be required)
  - `yast -i module_name` (Replace **module\_name** with name of missing module)
  - example: `yast -i novell-lum`
4. Install the Novell Client for Linux
  - Download Novell Client for SUSE Linux Enterprise Desktop 10 SP1 from <http://download.novell.com>
  - Change to the directory where the client was downloaded
    - `cd /tmp`
  - Use file-roller to extract the ISO file
    - `file-roller -e=/tmp/novell_client --force novell-client-2.0-sle10sp1-i386.iso`
  - Change into the `novell_client` directory
    - `cd novell_client`
  - Change file permissions of `ncl_install` to allow execution of file
    - `chmod a+x ncl_install`
  - Install the client with the following command
    - `./ncl_install install`
5. Start Novell Client and test functionality
  - Add `/opt/novell/ncl/bin` to `$PATH`
    - `export PATH="$PATH:/opt/novell/ncl/bin"`
  - Restart Novell Client daemon
    - `/opt/novell/ncl/bin/ncl_control restart`
  - Test that the Novell Client is functioning by typing the following command at the bash prompt.
    - `nwlogin -t treename -s server_address -c context -u username -p password -r`

6. Download and extract SingleSignOn file
  - Download SingleSignOnUpdate.tar.gz from [www.danville.k12.il.us/ISTechs/SingleSignOnUpdate.tar.gz](http://www.danville.k12.il.us/ISTechs/SingleSignOnUpdate.tar.gz)
  - Change to the download directory
    - `cd /tmp`
  - Extract the tar ball file
    - `tar -xzf SingleSignOnUpdate.tar.gz`
  
7. Edit SingleSignOn files for your environment
  - Change into SingleSignOn directory
  - `cd SingleSignOnUpdate`
  - Edit login.conf with gedit or editor of your choice
    - `gedit files/etc/opt/novell/ncl/login.conf`
      - `Default_Tree=Tree` (Replace **Tree** with your tree name)
      - `Default_Context=Context` (Replace **Context** with your default context)
      - `Default_Server=Server` (Replace **Server** with your server name or IP)
  - Edit novellsingle
    - `gedit files/etc/sysconfig/novellsingle`
      - `NDSTREE=TreeIP` (Replace **TreeIP** with your edir server's IP or Tree name)
      - `NDSSERVER=ServerIP` (Replace **ServerIP** with your edir server's IP)
      - `NDSLLDAP=LDAPIP` (Replace **LDAPIP** with LDAP server's IP)
  - Edit slp.conf
    - `gedit files/etc/slp.conf`
      - `net.slp.useScopes = Scope_Name` (Replace **Scope\_Name** with your scope)
      - `net.slp.DAAddresses = DAAddress` (Replace **DAAddress** with your DA IP)
  
8. Install Single Sign On
  - `./install.sh`
  
9. Import workstation into eDirectory with the following command at the bash prompt
  - `namconfig add -a UserDN -r ConfigContext -w WorkstationContext -S LDAPIP:389 -l 636`
    - **UserDN**= Distinguished name. Example `cn=admin,o=novell`
    - **ConfigContext**= organization unit where linux config resides. Example `o=novell`
    - **WorkstationContext**= organization unit to import unix workstation. Example `ou=workstations,o=novell`
    - **LDAPIP**= IP of LDAP server. Example `192.168.1.1`
    - Example. `namconfig add -a cn=admin,o=novell -r o=novell -w ou=workstations,o=novell -S 192.168.1.1:389 -l 636`
  
10. Add workstation to Linux Enabled group
  - Log into iManager
  - Select Linux User Management
  - Modify Linux Workstation Object

- Use the object selector to find the workstation in the tree



- Click Ok
- Use the object selector to find a Linux Enabled Group Then click Apply



11. Restart the workstation. Users who are in the Linux Enabled Group should be able to log into this workstation.

### Troubleshooting

1. **User can not login.** Make sure that the user is Linux Enabled and a member of the same Linux Enabled Group as the workstation.

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