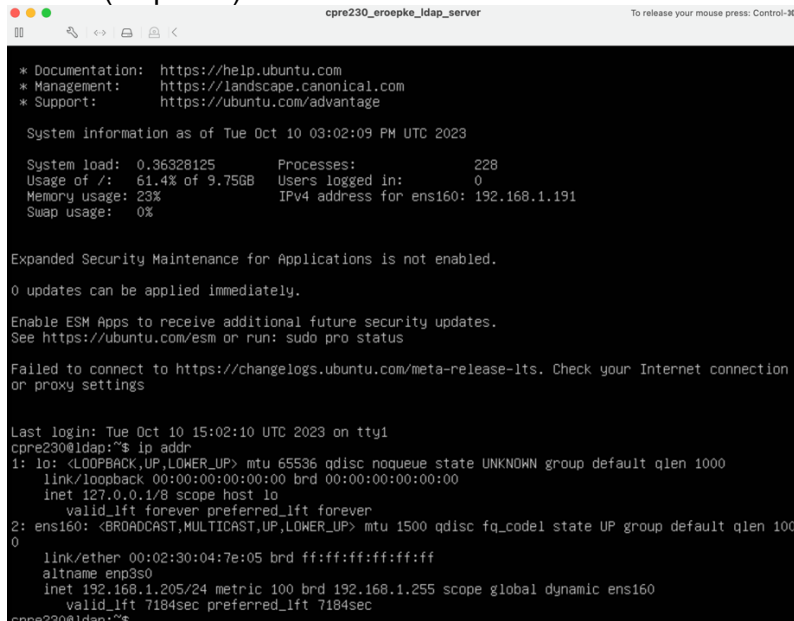


# Lab 06 Template – Ethan Roepke

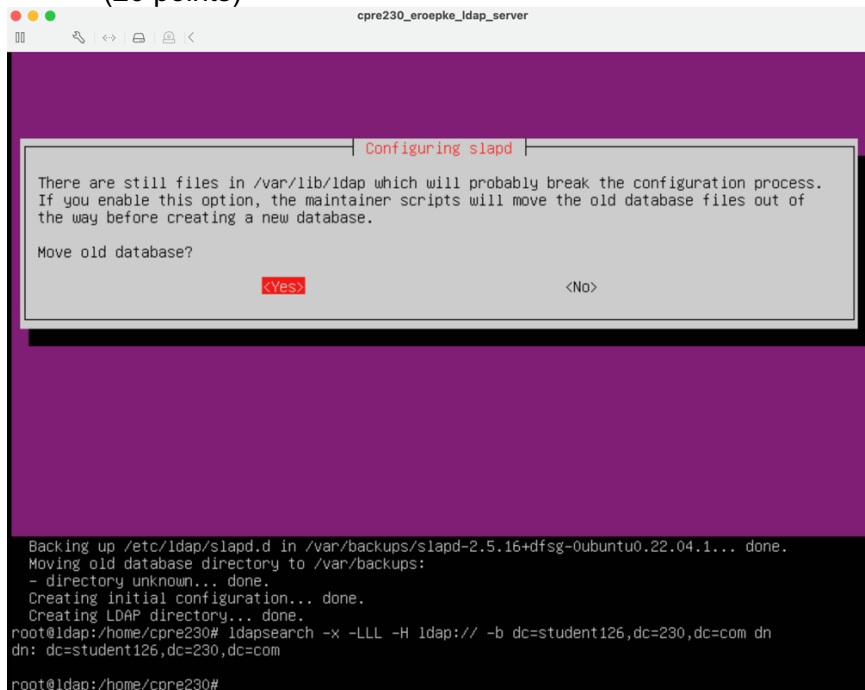
## 1. Screenshot of NAT IP address (10 points)



The screenshot shows a terminal window titled 'cpre230\_eroepke\_ldap\_server'. It displays system information as of Tue Oct 10 03:02:09 PM UTC 2023. The system load is 0.36328125, usage of / is 61.4% of 9.75GB, memory usage is 23%, and swap usage is 0%. There are 228 processes and 0 users logged in. The IPv4 address for ens160 is 192.168.1.191. The terminal also shows expanded security maintenance for applications is not enabled, 0 updates can be applied immediately, and a failed connection to https://changelogs.ubuntu.com/meta-release-lts. The last login was Tue Oct 10 15:02:10 UTC 2023 on tty1. The user cpre230@ldap:~\$ ip addr shows the following output:

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
2: ens160: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:02:30:04:7e:05 brd ff:ff:ff:ff:ff:ff
    altname enp3s0
    inet 192.168.1.205/24 metric 100 brd 192.168.1.255 scope global dynamic ens160
        valid_lft 7184sec preferred_lft 7184sec
cpre230@ldap:~$
```

## 2. Screenshot of success connecting to LDAP server (20 points)



The screenshot shows a terminal window titled 'cpre230\_eroepke\_ldap\_server'. It displays a dialog box titled 'Configuring slapd' with the following text:

There are still files in /var/lib/ldap which will probably break the configuration process. If you enable this option, the maintainer scripts will move the old database files out of the way before creating a new database.

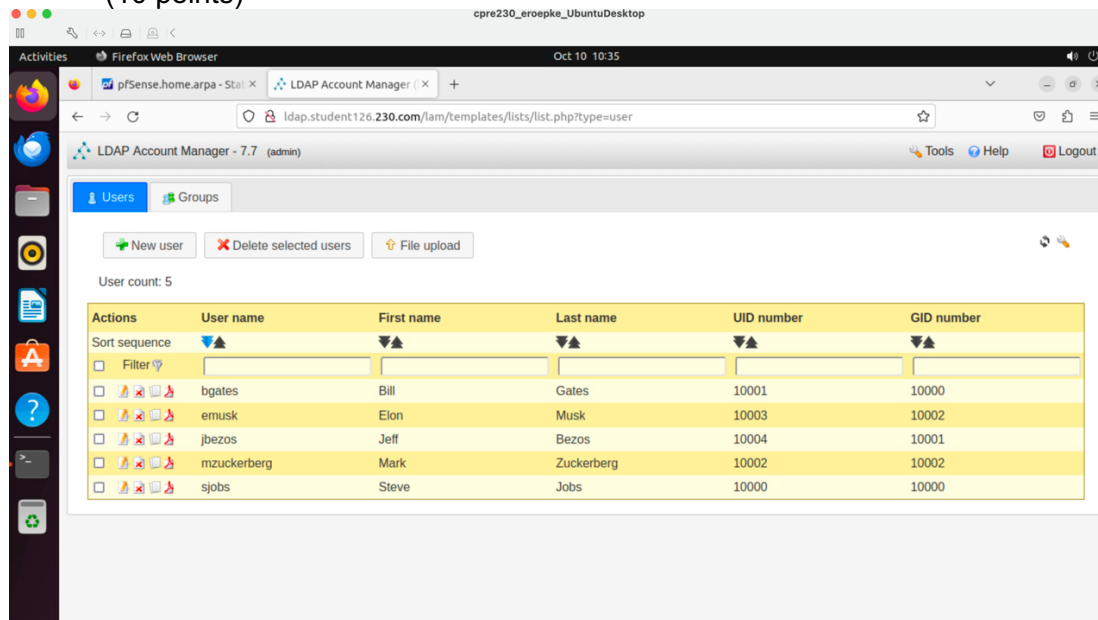
Move old database?

<Yes> <No>

The terminal also shows the following output:

```
Backing up /etc/ldap/slapd.d in /var/backups/slapd-2.5.16+dfsg-0ubuntu0.22.04.1... done.
Moving old database directory to /var/backups:
- directory unknown... done.
Creating initial configuration... done.
Creating LDAP directory... done.
root@ldap:/home/cpre230# ldapsearch -x -LLL -H ldap:// -b dc=student126,dc=230,dc=com dn
dn: dc=student126,dc=230,dc=com
root@ldap:/home/cpre230#
```

### 3. Screenshot of created users (10 points)



### 4. Screenshot of successful authentication as Bill Gates (10 points)

```
Setting up php8.1 (8.1.2-1ubuntu2.14) ...
Setting up php-gd (2:8.1+92ubuntu1) ...
Setting up php (2:8.1+92ubuntu1) ...
Setting up ldap-account-manager (7.7-1) ...
Enabling conf ldap-account-manager.
Processing triggers for ufw (0.36.1-4ubuntu0.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
Processing triggers for php8.1-cli (8.1.2-1ubuntu2.14) ...
Processing triggers for libapache2-mod-php8.1 (8.1.2-1ubuntu2.14) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

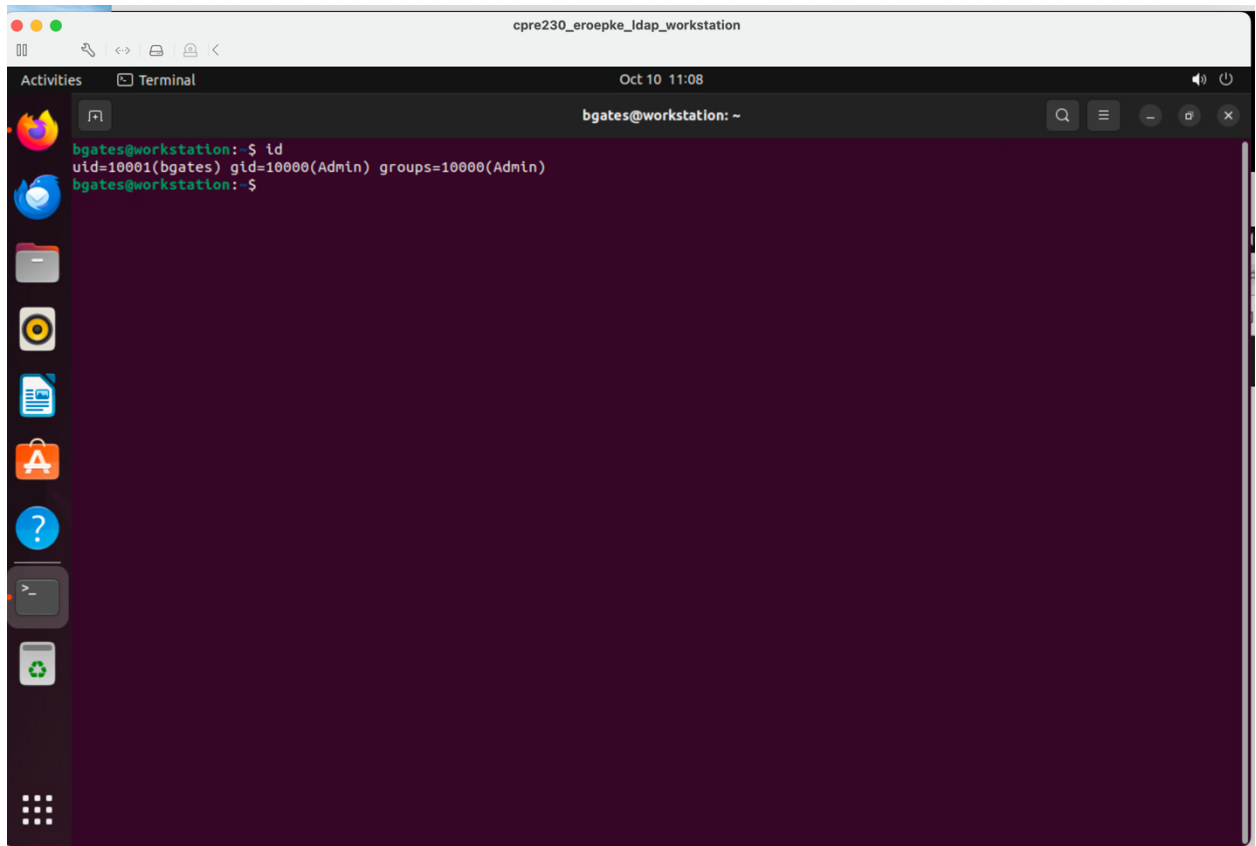
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ldap:/home/cpre230# sudo apt install ldap-utils
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ldap-utils is already the newest version (2.5.16+dfsg-0ubuntu0.22.04.1).
The following packages were automatically installed and are no longer required:
  libflashrom1 libftdi1-2
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@ldap:/home/cpre230# ldapwhoami -v -H ldap://ldap.student126.230.com -D "cn=Bill Gates,ou=People,dc=student126,dc=230,dc=com" -x -w "windowz"
ldap_initialize( ldap://ldap.student126.230.com:389/??base )
dn:cn=Bill Gates,ou=People,dc=student126,dc=230,dc=com
Result: Success (0)
root@ldap:/home/cpre230#
```

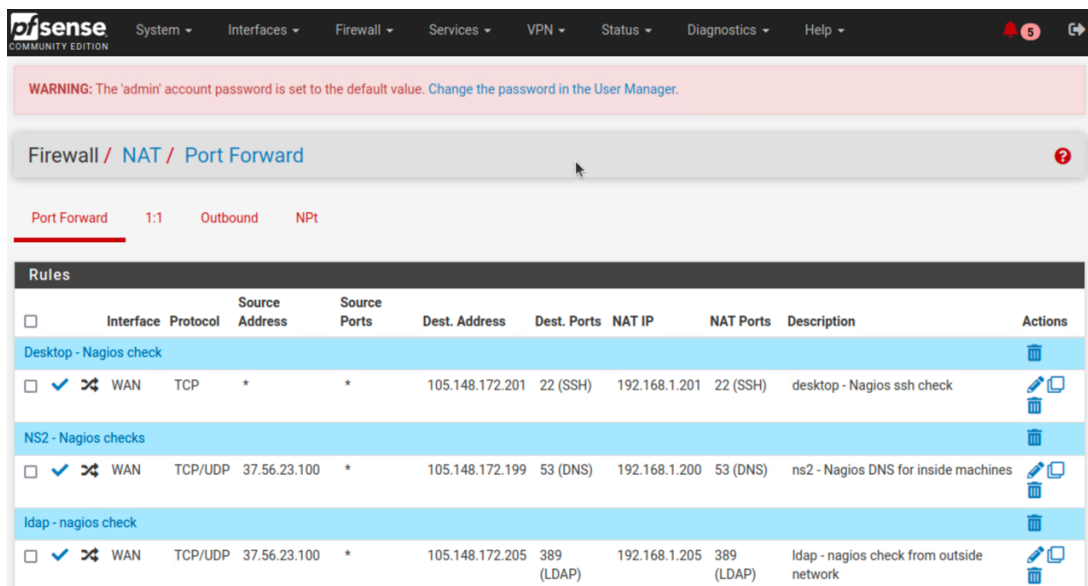
5. Screenshot of output of id command as Bill Gates on workstation

(10 points)



6. Screenshot of successful NAT rule

(20 points)



7. **Screenshot of the Nagios query showing green**  
(20 points)

www.student125.230.com	www httpwww httpswww login	
www2.student125.230.com	www2 djangowww2 ssh	

Student 126 (student126)

Host	Services	Actions
desktop1.student126.230.com	desktop1 ssh	
ldap.student126.230.com	ldap Bezosldap Gatesldap Jobsldap Muskldap Zuckerbergldap service	
mail.student126.230.com	dns MXmail popsecure imapssecure imap loginsecure smtp	
ns1.student126.230.com	dns maildns ns1dns wwwdns www2reverse dns mailreverse dns ns1reverse dns wwwreverse dns www2	
ns2.student126.230.com	dns desktop1dns ldapdns wereverse dns desktop1reverse dns ldapreverse dns we	
www.student126.230.com	www httpwww httpswww login	
www2.student126.230.com	www2 djangowww2 ssh	

Student 127 (student127)

Host	Services	Actions
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