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2/5/2026
Cpsc 222

running pwd and ls -la from your repo directory that contains the above files

```
user@user-VirtualBox:~/cpsec222/cpsc-222/python-api$ cd ~/cpsec222/cpsc-222/python-api
- api
pwd
ls -la
/home/user/cpsec222/cpsc-222/python-api
total 16
drwxrwxr-x 2 user user 4096 Feb  8 11:08 .
drwxrwxr-x 4 user user 4096 Feb  4 09:33 ..
-rwxrwxr-x 1 user user 2556 Feb  8 10:53 api_server.py
-rw-rw-r-- 1 user user 276 Feb  8 11:08 localapi.service
user@user-VirtualBox:~/cpsec222/cpsc-222/python-api$
```

Service is enabled and running

```
user@user-VirtualBox:~/cpsec222/cpsc-222/python-api$ systemctl --user status localapi.service --no-pager
● localapi.service - Python API Service
   Loaded: loaded (/home/user/.config/systemd/user/localapi.service; enabled; preset: enabled)
   Active: active (running) since Sun 2026-02-08 11:21:59 EST; 22min ago
     Main PID: 1712 (python3)
       Tasks: 1 (limit: 4604)
      Memory: 9.5M (peak: 10.0M)
         CPU: 698ms
    CGroup: /user.slice/user-1000.slice/user@1000.service/app.slice/localapi.service

           └─1712 python3 /home/user/cpsec222/cpsc-222/python-api/api_server.py

Feb 08 11:21:59 user-VirtualBox systemd[1699]: Started localapi.service - Python API Service.
Hint: Some lines were ellipsized, use -l to show in full.
```

Curl users test:

```
user@user-VirtualBox:~/cpsec222/cpsc-222/python-api$ curl -t -X POST -u test:abcA
BC123456 http://127.0.0.1:3000/api/users | head
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100  759  100  759    0     0  78996      0 --:--:-- --:--:-- --:--:-- 84333
HTTP/1.0 200 OK
Server: BaseHTTP/0.6 Python/3.12.3
Date: Sun, 08 Feb 2026 16:45:14 GMT
Content-Type: application/json; charset=utf-8
Content-Length: 759

{"0":"root","1":"daemon","2":"bin","3":"sys","4":"sync","5":"games","6":"man","7":"lp","8":"mail","9":"news","10":"uucp","11":"proxy","12":"www-data","13":"back-up","14":"list","15":"irc","16":"_apt","17":"nobody","18":"systemd-network","19":"systemd-timesync","20":"dhcpcd","21":"messagebus","22":"syslog","23":"systemd-resolve","24":"uuidd","25":"usbmux","26":"tss","27":"systemd-oom","28":"kernoops","29":"whoopsie","30":"dnsmasq","31":"avahi","32":"tcpdump","33":"sssd","34":"speech-dispatcher","35":"cups-pk-helper","36":"fwupd-refresh","37":"saned","38":"geoclue","39":"cups-browsed","40":"hplip","41":"gnome-remote-desktop","42":"polkitd","43":"rtkit","44":"colord","45":"gnome-initial-setup","46":"gdm","47":"nm-openvpn","48":"user","49":"Debian-snmplib"}
user@user-VirtualBox:~/cpsec222/cpsc-222/python-api$
```

Curl groups test:

```
user@user-VirtualBox: ~/cpsec222/cpsc-222/python-api$ curl -i -X POST -u test:abcA
BC123456 http://127.0.0.1:3000/api/groups | head
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed

100 1107 100 1107    0     0  177k    0 --:--:-- --:--:-- --:--:-- 180k
HTTP/1.0 200 OK
Server: BaseHTTP/0.6 Python/3.12.3
Date: Sun, 08 Feb 2026 16:47:24 GMT
Content-Type: application/json; charset=utf-8
Content-Length: 1107

{"0": "root", "1": "daemon", "2": "bin", "3": "sys", "4": "adm", "5": "tty", "6": "disk", "7":
"lp", "8": "mail", "9": "news", "10": "uucp", "11": "man", "12": "proxy", "13": "kmem", "14":
"dialout", "15": "fax", "16": "voice", "17": "cdrom", "18": "floppy", "19": "tape", "20": "s
udo", "21": "audio", "22": "dip", "23": "www-data", "24": "backup", "25": "operator", "26":
"list", "27": "irc", "28": "src", "29": "shadow", "30": "utmp", "31": "video", "32": "sasl",
"33": "plugdev", "34": "staff", "35": "games", "36": "users", "37": "nogroup", "38": "syste
md-journal", "39": "systemd-network", "40": "crontab", "41": "systemd-timesync", "42": "
input", "43": "sgx", "44": "kvm", "45": "render", "46": "messagebus", "47": "syslog", "48":
"systemd-resolve", "49": "uuidd", "50": "ssh", "51": "tss", "52": "ssl-cert", "53": "syste
md-oom", "54": "bluetooth", "55": "rdma", "56": "whoopsie", "57": "netdev", "58": "avahi",
"59": "tcpdump", "60": "sssd", "61": "lpadmin", "62": "fwupd-refresh", "63": "scanner", "
64": "sane", "65": "geoclue", "66": "pipewire", "67": "gnome-remote-desktop", "68": "pol
```

Curl test authorization enforcement (no auth):

```
{"error": "unauthorized"}user@user-VirtualBox: ~/cpsec222$ curl -i -X POST http://127.0
.0.1:3000/api/users
HTTP/1.0 401 Unauthorized
Server: BaseHTTP/0.6 Python/3.12.3
Date: Sun, 08 Feb 2026 16:48:42 GMT
WWW-Authenticate: Basic realm="api"
Content-Type: application/json; charset=utf-8
Content-Length: 24
```

Git config List:

```
user@user-VirtualBox: ~/cpsec222/cpsc-222/python-api$ git config --list
user.email=marcus.amerine30@gmail.com
user.name=Marcus
credential.helper=store
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
remote.origin.url=https://mamerine2@github.com/mamerine2/cpsc-222.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.main.remote=origin
branch.main.merge=refs/heads/main
```

Git log — oneline

```
user@user-VirtualBox: ~/cpsec222/cpsc-222/python-api$ git log --oneline -5
git status
2fbce15 (HEAD -> main, origin/main, origin/HEAD) Add localhost:3000 HTTP API wit
h users and groups
35082f8 Remove test file
267c33f Test push confirmation
6e5c355 Create snmpd.conf
353f3cf Create sudo_count.pl
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```