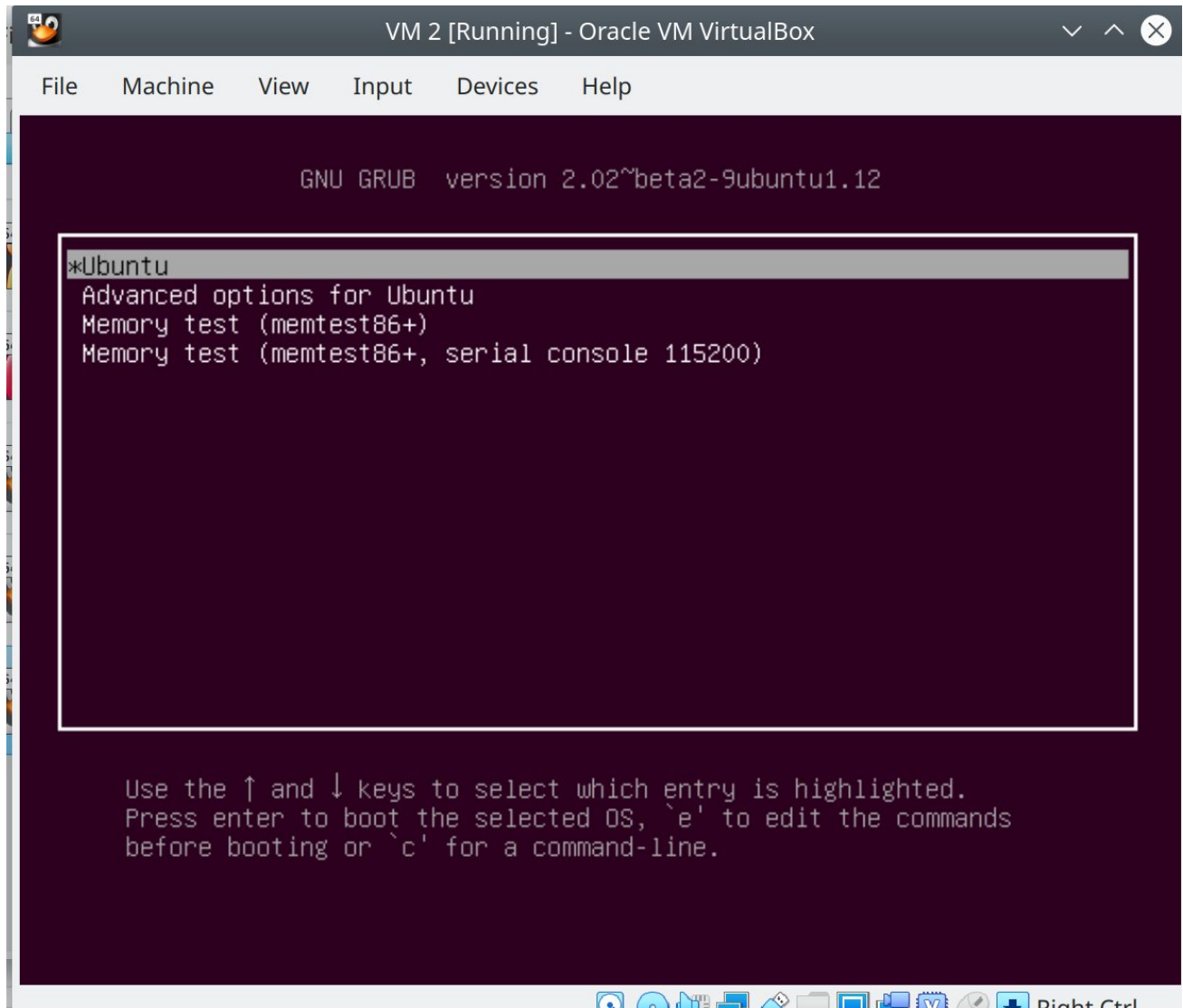# SNA Lab 3 - Domains & Daemons

Task 1 - Boot-loader

Task 2 - Name resolution

I have send the zone file configuration line to @pbraun and got bananchik.os3.su

Task 3 - HTTPD

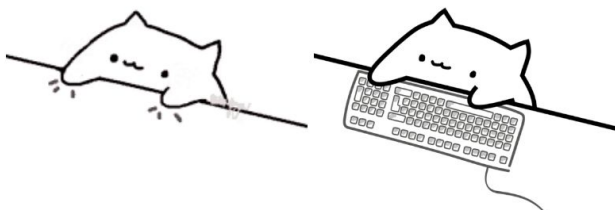I have designated an app for a web socket (Flask with 'flask-socketio' extension)

Link to github with code is here: https://github.com/BananaAndBread/SNA/tree/master/Lab3

Must be available there: https://bananchik.os3.su/

No messages yet... : (

| User Name | Message | Submit |

The Shortest Usage Tutorial with examples:

▶ 0:00 / 8:17 🔊 ⋮

Kek It's pretty good here

| Kek | Message | Submit |

The Shortest Usage Tutorial with examples:

▶ 0:00 / 0:00 🔊
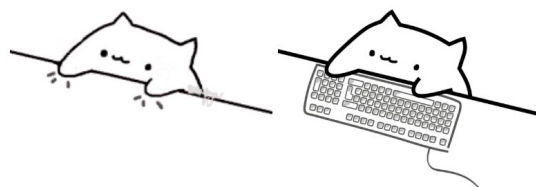
I used gunicorn to daemonise the application. Created a WSGI Entry Point as follows:

```
~/myproject/wsgi.py

from myproject import app

if __name__ == "__main__":
    app.run()
```

Created the systemd service unit file to automatically start Gunicorn and serve the Flask application whenever the server boots:

```
[Unit]
Description=Gunicorn instance to serve
myproject
After=network.target

[Service]
User=ubuntu
Group=www-data
WorkingDirectory=/home/ubuntu/myproject
ExecStart=/usr/bin/gunicorn --worker-class
eventlet --access-logfile
/var/log/gunicorn/access_log --error-logfile
/var/log/gunicorn/error
_log --workers 1 --bind 0.0.0.0:5000 wsgi:app

[Install]
WantedBy=multi-user.target
```

Started the service:

```
sudo systemctl start myproject
sudo systemctl enable myproject
```

Configured Nginx to Proxy Requests and got an SSL certificate for my domain with certbot:

```
sudo certbot --nginx -d your_domain
```

Final nginx config can be found there

Task 4 - CROND

Config in crontab -e:

MAILTO=vaskovskaya.dasha2@yandex.ru
30 3 * * * /home/ubuntu/myproject/backupetc

Where backupetc is :

```
#!/usr/bin/env bash
#
# backup the etc directory!
#
cd /var/backups
tar cJPf $(date +%F)-$(hostname)-etc-tar.xz /etc/

# remove older backups
find /var/backups -type f -name '*-etc-tar.xz' -mtime
+90 -delete

echo "Successfully backed up /etc"
```

Email: