

Fun

(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)

1. Setup Environment

- a. `sudo yum install nginx`
- b. `sudo yum install python3-pip`
- c. `sudo pip3 install flask`

2.

- a. `sudo systemctl start nginx`
- b. `sudo systemctl enable nginx`
- c. `sudo systemctl status nginx`
- d. `cd /usr/share/nginx/html`

before run `python3 app.py`

```
sudo mkdir /var/log/flask_app
sudo chown ec2-user:ec2-user /var/log/flask_app
```

Change ownership and permission

```
sudo chown -R $USER:$USER /mnt/efs/fs1
sudo chmod -R 775 /mnt/efs/fs1
```

`ls -l -P -n | grep LISTEN`

`forever start -c python3 app.py`

`forever list`

`forever stop PID`

install node for linux2: <https://repost.aws/questions/QUvkkhY--uTiSDkS6R1jFnZQ/node-js-18-on-amazon-linux-2>

```
aws s3api get-object --bucket <bucket> --key <targetFile> <outputFile>
```

```
aws s3 cp s3://<bucket>/<targetFile> <outputFile>
```

```
#aws s3 cp s3://s3-efs-v1/notes.json /mnt/efs/fs1/notes.json
```

```
#move all files from Zhanxink folder to EFS Zhanxink folder
```

```
aws s3 cp s3://s3-efs-v1/Zhanxink/ /mnt/efs/fs1/Zhanxink --recursive
```

```
sudo vim /etc/nginx/nginx.conf
```

```
server {
```

```
    listen 80;
```

```
    root /usr/share/nginx/html;
```

```
    index index.html index.htm;
```

```

#----- added by jason -----
location /efs {
    alias /mnt/efs/fs1;
    autoindex on;
}
location /upload {
    proxy_pass http://10.0.2.218:5000/upload;
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
}
location /login {
    proxy_pass http://10.0.2.218:5000/login;
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
}
#handle dynamic user directories
location ~ ^/(\w+)$ {
    set $username $1;
    rewrite ^/(.*)$ /efs/$username/$1 break;
    proxy_pass http://10.0.2.218:5000/$username;
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
}
location ~ ^/(\w+)/upload$ {
    set $username $1;
    rewrite ^/(.*)/upload$ /$username/upload break;
    proxy_pass http://10.0.2.218:5000/$username/upload;
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
}

# Handle delete routes
location ~ ^/(\w+)/delete/(.*)$ {
    set $username $1;
    set $filename $2;
    proxy_pass http://10.0.2.231:5000/$username/delete/$filename;
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
}

# Handle restore route
location ~ ^/(\w+)/restore/(.*)$ {
    set $username $1;
    set $filename $2;

```

```
        proxy_pass http://10.0.2.231:5000/$username/restore/$filename;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
    }
    #-----

    location / {
        try_files $uri $uri/ =404;
    }

    error_log /var/log/nginx/error.log;
    access_log /var/log/nginx/access.log;
}
```

1. VPC CCloudFormation
2. EFS
 - a. SG for EFS: