

Host API with AWS

You should have an express.js API added to a GitHub repo and a MongoDB database hosted on Atlas. The API found in "/resources/" could be used.

Disclaimer: You are personally responsible for any expenses on Amazon Web Service (AWS).

You should be able to gain access to 100\$ credit through AWS Academy. I have not yet figured out how.



Register for AWS

- Register for a new user on [AWS](#), or use an existing user.
- Make sure you select all the free options.
- *void: Will later explain how to claim free credits.*



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To learn more, visit aws.amazon.com/free.



Sign up for AWS

Root user email address

Used for account recovery and some administrative functions

AWS account name

Choose a name for your account. You can change this name in your account settings after you sign up.

Verify email address

OR

Sign in to an existing AWS account

Virtual Machine (VM)

1. Search and press EC2.
2. Press Launch instance.

- ## Connect through SSH

- [illegible]

Prepare the VM for hosting of API

1. Update the VM and install necessary packages

```
sudo yum update
sudo yum upgrade
sudo yum install nodejs npm git
```

2. Clone the API code from GitHub, navigate to the project and install dependencies. Recreate .env with correct information

```
git clone < repo_url >
cd < project_name >
npm install
echo 'URI = "< your_mongodb_auth_uri_here >"' >> .env
```

3. Add the VM's IP to Atlas' network access under security in the correct cluster

Run the API with PM2

1. Install PM2 globally and start the API using PM2

```
sudo npm install -g pm2
pm2 start app.js
```

app.js is here the main application file for the API. Replace with whatever your file is called.

Configure reverse proxy

1. Install Nginx

```
sudo yum install nginx
```

2. Create a new configuration file for Nginx

```
sudo touch /etc/nginx/conf-d/api.conf
sudo vim /etc/nginx/conf-d/api.conf
```

3. Add the following to the new api.conf file and write the changes

Remember to activate "INSERT" with i

```
server {
    listen 80;
    server_name <your_api_domain>;
```

```
location / {  
    proxy_pass http://localhost:3000;  
    proxy_http_version 1.1;  
    proxy_set_header Upgrade $http_upgrade;  
    proxy_set_header Connection 'upgrade';  
    proxy_set_header Host $host;  
    proxy_cache_bypass $http_upgrade;  
}
```

change to whatever port you run the api on, and change to the VMs IP from <your_api_domain>

write changes and quit vim with "Esc" :wq

4. Restart Nginx for changes to take effect

```
sudo service nginx restart
```

Test the API

- Change the environment in postman to production. Remember to change the URL from localhost to your ip

or

- Test it however you want 😊