

Deploying a Node.js app to AWS

Questions

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How do I install PostgreSQL to a Linux server?

```
sudo apt install postgresql
```

How do I start the PostgreSQL engine?

```
sudo service postgresql start
```

And to check:

```
sudo service postgresql status
```

How do I create a PostgreSQL user?

Become the postgres user

```
sudo su - postgres
```

Then, log into psql

```
psql
```

In the psql prompt, run these commands:

```
create role ubuntu;  
alter role ubuntu with superuser;  
alter role ubuntu with createdb;  
alter role ubuntu with login;  
\q
```

Then, log out as the postgres user

```
exit
```

How do I change login scheme for PostgreSQL?

Edit the config file:

```
sudo nano /etc/postgresql/10/main/pg_hba.conf
```

Change the following lines:

host	all	all	127.0.0.1/32	md5
host	all	all	:::1/128	md5

to:

host	all	all	127.0.0.1/32	trust
host	all	all	:::1/128	trust

Restart PostgreSQL

```
sudo service postgresql restart
```

How do I make sure I did that right?

```
createdb ubuntu  
psql
```

If that drops you into a psql prompt, you are ready to rock n' roll!

Alternatively, to see what databases exist:

```
psql -c '\l'
```


How do I install Node.js on Linux?

```
curl -o- https://raw.githubusercontent.com/creationix/nvm/v0.33.11/install.sh | bash
```

Then log out and then log back in and run:

```
nvm install node
```

How do I "install" my Node.js app?

- `git clone my repo`
- `cd` into my repo's directory
- `npm install` my dependencies
- Create a `.env` file so my app can talk to the database (i.e., run `nano .env`)
- `npm run reset-db`

How do I get nginx to server a Node.js app?

Edit your nginx config:

```
sudo nano /etc/nginx/sites-available/default
```

Replace the location section of your server block with this:

```
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;  
}
```

Check the config and restart if "syntax is ok"

```
sudo nginx -t  
sudo service nginx restart
```

How do I keep a Node.js app running if I'm not logged in?

Install the GLOBAL node module pm2

```
npm install -g pm2
```

Start your app with pm2

```
pm2 start index.js
```

How do I make sure my Node.js app starts when the server reboots?

```
pm2 startup
```

Copy and paste what it prints out. (This is just an example.)

```
sudo env PATH=$PATH:/home/ubuntu/.nvm/versions/node/v11.1.0/bin /home/ubuntu/.nvm/versions/node/v
```

Then run:

```
pm2 save
```