Step-by-step guide to install and set up Next.js on your Ubuntu 22.04 LTS server for a production environment:

- Update your system packages:
  - sudo apt update && sudo apt upgrade -y
- Install Node.js and npm:
  - curl -fsSL https://deb.nodesource.com/setup_18.x | sudo -E bash -
  - sudo apt install -y nodejs
- Verify installation:
  - node -v
  - npm -v
- Create a default Next.js Application
  - sudo npm install -g create-next-app
  - npx create-next-app my-next-app
  - cd my-next-app
- Build and Run Next.js for Production
  - npm install
  - npm run build
  - npm start

By default, the application runs on port 3000. You can visit it at: http://your_server_ip:3000

- Set Up Reverse Proxy with Nginx
  - sudo apt install nginx -y
  - sudo nano /etc/nginx/sites-available/my-next-app

add following to file save and exit:

```
server {
    listen 80;

    server_name your_domain.com;


    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;

    }

}
```

- Replace your_domain.com with your domain name or server IP.
- Enable the configuration:
  - sudo ln -s /etc/nginx/sites-available/my-next-app /etc/nginx/sites-enabled/
  - sudo nginx -t
  - sudo systemctl restart nginx
- Set Up Process Manager pm2
  - sudo npm install -g pm2
  - pm2 start npm --name "my-next-app" -- start
  - pm2 save
  - pm2 startup
- Secure Your Server with FREE SSL
  - sudo apt install certbot python3-certbot-nginx -y
  - sudo certbot --nginx -d your_domain.com
  - sudo certbot renew --dry-run