

Use Node.js and Express.js with Nginx on a VM using GitHub to deployment

1. Prepare VM

- **Update and install necessary packages:**

- ```
sudo apt update && sudo apt upgrade -y
sudo apt install git nodejs npm nginx -y
```

- **Verify Node.js and npm installation:**

- ```
node -v  
npm -v
```

- **Install a process manager like PM2:**

- ```
sudo npm install -g pm2
```
- 

## 2. Clone and Set Up Project

- **Navigate to the desired directory:**

- ```
cd /var/www
```

- **Clone your project repository:**

- ```
git clone https://github.com/RosCheath/rupe-e-card.git
cd rupe-e-card
```

- **Install dependencies:**

- ```
npm install
```

- **Run the app with PM2:**

- ```
cd src
pm2 start app.js --name rupp-e-card
pm2 save
pm2 startup
```

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## 3. Configure Nginx as a Reverse Proxy

- **Create an Nginx configuration file for domain:**

- ```
sudo nano /etc/nginx/sites-available/verify.rupp.edu.kh
```

- **Add the following content:**

- ```
server {
 server_name verify.rupp.edu.kh;

 location / {
 proxy_pass http://127.0.0.1:3000;
 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;
 }

 listen 80;
}
```

- **Enable the configuration:**

- ```
sudo ln -s /etc/nginx/sites-available/verify.rupp.edu.kh /etc/nginx/sites-enabled/
```

- **Test Nginx configuration:**

- ```
sudo nginx -t
```

- **Reload Nginx:**

- ```
sudo systemctl reload nginx
```