

Node.js Installation & App Deployment Script

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This document contains the script and step-by-step instructions for installing Node.js and deploying an Express.js app.

Script: install_node_and_deploy.sh

Usage: ./install_node_and_deploy.sh <GitHubRepoURL> <MongoDBConnectionString>

Script Content:

#!/bin/bash

Check for app repository URL argument

if ["\$#" -ne 2]; then

echo "Usage: \$0 <GitHubRepoURL> <MongoDBConnectionString>"

exit 1

fi

REPO_URL=\$1

MONGO_CONN_STRING=\$2

Step 1: Update and upgrade all system packages

sudo apt update && sudo apt upgrade -y

Step 2: Install curl and certificate tools

sudo apt install -y curl ca-certificates

Step 3: Set up the latest Node.js repository

curl -fsSL https://deb.nodesource.com/setup_current.x | sudo -E bash -

Step 4: Install Node.js

sudo apt install -y nodejs

Step 5: Show installed Node.js and npm versions

node -v && npm -v

Step 6: Clone the app repository and navigate into it

git clone \$REPO_URL app

cd app

Step 7: Install app dependencies

npm install

Step 8: Install PM2 globally

sudo npm install -g pm2

Step 9: Start the app with PM2

```
pm2 start index.js --name express-app
```

Optional - Display example MongoDB connection string (for documentation purposes)

```
echo "Example MongoDB connection string (for your reference):"
```

```
echo $MONGO_CONN_STRING
```

Step 10: Save PM2 process list and enable PM2 to start on boot

```
pm2 save
```

```
pm2 startup
```

```
echo "■ Node.js installed, app cloned and deployed using PM2."
```

Instructions to Run

1. Save the script as install_node_and_deploy.sh

2. Make it executable:

```
chmod +x install_node_and_deploy.sh
```

3. Run the script with your repository URL and MongoDB connection string:

```
./install_node_and_deploy.sh "https://github.com/your-username/your-express-app.git" "mongodb://username:password@localhost:27017/db_name?authSource=admin"
```

This will:

- Install Node.js
- Clone your app
- Install its dependencies
- Start the app using PM2 (so it keeps running in the background)
- Enable PM2 to auto-start when the server reboots

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