

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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