NodeJS application deployment using jenkins

# Install the Node.js Plugin

* 1. Go to **Jenkins Dashboard** → **Manage Jenkins** → **Manage Plugins**.
  2. Search for **"NodeJS Plugin"** under the **Available** tab.
  3. Install the plugin and restart Jenkins.

# Configure Node.js in Jenkins

* 1. Navigate to **Manage Jenkins** → **Global Tool Configuration**.
  2. Scroll to the **NodeJS** section.
  3. Click **Add NodeJS** and configure:

**Name** (e.g., )

NodeJS-18

 **Install automatically** (optional)

 Select a version or provide a custom installation path.

* 1. Click **Save**.

# Use Node.js in a Jenkins Job Option 1: Using a Freestyle Job

* 1. Create a **New Item** → **Freestyle project**.
  2. Go to **Build Environment** and check **Provide Node & npm bin/ folder to PATH**.
  3. Select the Node.js version you configured earlier.
  4. In the **Build** section, add an **Execute Shell** step:

node -v npm install npm start

* 1. Save and **Build Now**.

# Option 2: Using a Jenkins Pipeline (Declarative)

Create a **Jenkinsfile** in your repository with the following:

pipeline {

agent any tools {

nodejs 'NodeJS-18' // Use the configured Node.js version

}

stages {

stage('Install Dependencies') { steps {

sh 'npm install'

}

}

stage('Run Application') { steps {

sh 'node server.js'

}

}

}

}

 Make sure

'NodeJS-18'

**Configuration**.

# Trigger the Build

matches the name configured in **Global Tool**

Click **Build Now** (for freestyle jobs) or push changes to your repo (for pipelines).