



Module Checklist

# Build Tools & Package Manager

By Techworld with Nana



# Video Overview

- ★ Introduction to Build and Package Manager Tools
- ★ Install Build Tools
- ★ Build Artifact
- ★ Build Tools for Development (Managing Dependencies)
- ★ Run/Start the application
- ★ Build JavaScript applications
- ★ Other Programming Languages
- ★ Publish Artifact
- ★ Build Tools & Docker
- ★ Build Tools & DevOps

Demo Infos	
Java Gradle Project	<a href="https://gitlab.com/nanuchi/java-app">https://gitlab.com/nanuchi/java-app</a>
Java Maven Project	<a href="https://gitlab.com/nanuchi/java-maven-app">https://gitlab.com/nanuchi/java-maven-app</a>
React-Node Project	<a href="https://github.com/bbachi/react-nodejs-example">https://github.com/bbachi/react-nodejs-example</a>

# Check your progress... 1/2

## Introduction to Build & Package Manager Tools

- ☐ Watched video

## Install Build Tools

- ☐ Watched video
- ☐ Installed Java, maven, node

### Useful Links:

- **Java on Windows:**  
[https://www3.ntu.edu.sg/home/ehchua/programming/howto/JDK\\_Howto.html](https://www3.ntu.edu.sg/home/ehchua/programming/howto/JDK_Howto.html)
- **Java on Mac/Linux:** Install using your OS package manager (e.g. brew)
- **Maven:** <https://maven.apache.org/install.html>
- **Node.js:** <https://nodejs.org/en/download/> - npm is distributed with Node.js

## Build Artifact

- ☐ Watched video
- ☐ **Demo executed**
  - ☐ Built Java Gradle Project
  - ☐ Built Java Maven Project

## Build Tools for Development

- ☐ Watched video
- ☐ **Demo executed** - add a new dependency to project

## Run the application

- ☐ Watched video
- ☐ **Demo executed**



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## Build JavaScript applications

- ☐ Watched video
- ☐ Demo executed

## Other Programming Languages

- ☐ Watched video

## Publish artifact

- ☐ Watched video

## Build Tools & Docker

- ☐ Watched video

## Build Tools & DevOps

- ☐ Watched video



# More Resources...

## Build Tools & Package Manager for different Programming Languages

- **Java:** maven | gradle
- **JavaScript:** npm | yarn | webpack
- **Python:** pip
- **C/C++:** conan
- **C#:** NuGet
- **Golang:** dep
- **Ruby:** RubyGems



## Useful Links

- Maven Repository: <https://mvnrepository.com/>
- NPM Repository: <https://www.npmjs.com/package/repository>