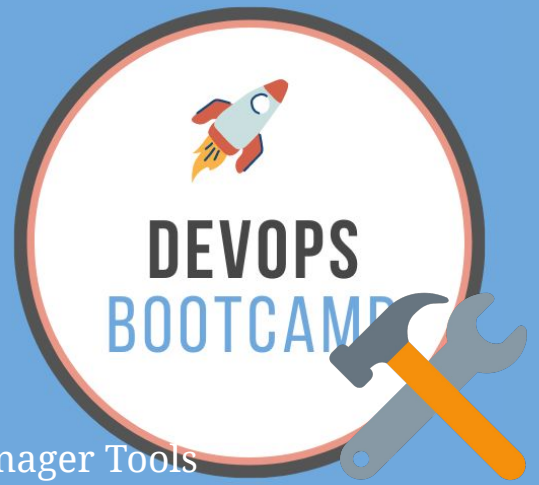# Module Checklist
Build Tools & Package Manager

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	https://gitlab.com/nanuchi/java-app
Java Maven Project	https://gitlab.com/nanuchi/java-maven-app
React-Node Project	https://github.com/bbachi/react-nodejs-example

Introduction to Build & Package Manager Tools

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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
● **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**

Build JavaScript applications

❏ Watched video
❏ **Demo executed**

Other Programming Languages

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Publish artifact

❏ Watched video

Build Tools & Docker

❏ Watched video

Build Tools & DevOps

❏ Watched video

DEVOPS
BOOTCAMP

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