**Step-by-Step Jenkins Setup with Dependencies**

## 1. Pre-requisites

* Create New Local user :
  + **Username** = jadmin
  + **Password** = Password@123

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* Make sure the user is set as **Administrator**.

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* Open **PowerShell as Administrator**.

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## 2. Install Chocolatey (Windows package manager)

Open an elevated PowerShell and run:

Set-ExecutionPolicy Bypass -Scope Process -Force



[System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072



iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))

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* Post Installation Close the PowerShell

## 3. Install .NET Framework 4.8

* Download and install from:

<https://go.microsoft.com/fwlink/?linkid=2088631>

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* Once Install Finish , Restart the VM

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## 4. Install Java JDK (Temurin 17 recommended)

* Open PowerShell again and Install java

choco install temurin17 -y

A computer screen shot of a program

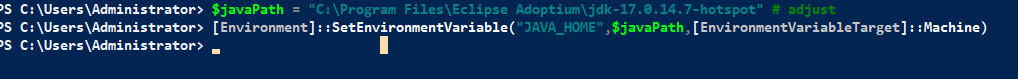
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* Set Java Path

# Example (PowerShell) - find exact install path then set it

$javaPath = "C:\Program Files\Eclipse Adoptium\jdk-17.0.14.7-hotspot"

[Environment]::SetEnvironmentVariable("JAVA\_HOME",$javaPath,[EnvironmentVariableTarget]::Machine)



$old = [Environment]::GetEnvironmentVariable("PATH",[EnvironmentVariableTarget]::Machine)

[Environment]::SetEnvironmentVariable("PATH","$old;$javaPath\bin",[EnvironmentVariableTarget]::Machine)



* Now Open command prompt and check java version

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# 5. Install Developer Tools (Git, Maven, Node.js)

choco install git -y

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choco install maven -y

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choco install nodejs-lts -y

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* Now Close all **command prompt** and **powershell**
* Open New **Powershall** and run below command

git –version

mvn -version

node -v

npm -v

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## 6. Install AWS CLI & Azure CLI and Alure

choco install awscli -y

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choco install azure-cli -y

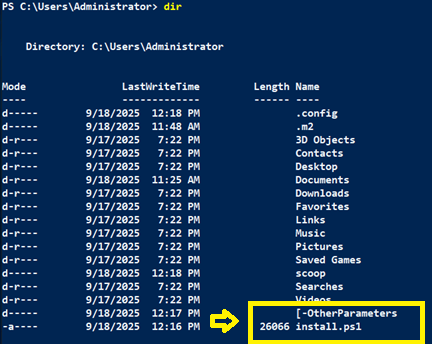
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Install Allure with scoop

irm get.scoop.sh -outfile 'install.ps1'





.\install.ps1 -RunAsAdmin [-OtherParameters ...]

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scoop install allure

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allure --version

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## 7. Install PostgreSQL for SonarQube

* Download Postgres

Download SonaQuebel

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Set password : password123

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Launch PGAdmin post installation

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doubleClick on posgressSQL 17

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Type password Password123

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Create Database

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Givedatabase name sonarqube

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Create newuser

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Username = sonar

Connect to sql editor

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CREATE USER sonar WITH ENCRYPTED PASSWORD 'Password123';

GRANT ALL PRIVILEGES ON DATABASE sonarqube TO sonar;

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**4. Configure SonarQube**

1. Edit the config file:
2. C:\SonarQube\conf\sonar.properties
3. Add DB connection (replace password with your actual DB password):
4. sonar.jdbc.username=sonar
5. sonar.jdbc.password=Password123

sonar.jdbc.url=jdbc:postgresql://localhost/sonarqube

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Save and exit

Run SonarQube

Go to:

C:\SonarQube\bin\windows-x86-64

Start service:

StartSonar.bat

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http://localhost:9000

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Update password Password@123

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Install Jenkins

choco instll jenkins -y

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Now In bropwser

<http://localhost:8080>

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Get initial password

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Username = vodaadmin

Pass=123

A screenshot of a login page

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vod