

HOMEWORK CICD WITH JENKINS

1. Install Jenkins
2. Buat 1 job untuk pengecekan disk pada server

1. Install Jenkins dengan Homebrew, dan commandnya :

- **brew install jenkins-lts**

```
dynoaryawana ~ -zsh - 177x52
==> Installing jenkins-lts dependency: sstd
==> Downloading https://ghcr.io/v2/homebrew/core/sstd/manifests/1.5.7
Already downloaded: /Users/dynoaryawana/Library/Caches/Homebrew/downloads/596a67b1677f62a8e24e6fda7c879891221cb8261242f4355fb4deffa2ec39--sstd-1.5.7.bottle_manifest.json
==> Pouring sstd--1.5.7.arm64_sequoia.bottle.tar.gz
  /opt/homebrew/Cellar/sstd/1.5.7: 32 files, 2.2MB
==> Installing jenkins-lts dependency: libtiff
==> Downloading https://ghcr.io/v2/homebrew/core/libtiff/manifests/4.7.0-1
Already downloaded: /Users/dynoaryawana/Library/Caches/Homebrew/downloads/cc8add3c5369d6c22906554ebc395ebe89f1ac410112bd65bc6d286d4e02f210--libtiff-4.7.0-1.bottle_manifest.json
==> Pouring libtiff--4.7.0.arm64_sequoia.bottle.1.tar.gz
  /opt/homebrew/Cellar/libtiff/4.7.0: 486 files, 8.4MB
==> Installing jenkins-lts dependency: little-cms2
==> Downloading https://ghcr.io/v2/homebrew/core/little-cms2/manifests/2.17
Already downloaded: /Users/dynoaryawana/Library/Caches/Homebrew/downloads/0e5e5ac9e1d07ae001662a85a70b344b31345897c284172f14874c9d329cb85--little-cms2-2.17.bottle_manifest.json
==> Pouring little-cms2--2.17.arm64_sequoia.bottle.tar.gz
  /opt/homebrew/Cellar/little-cms2/2.17: 23 files, 1.4MB
==> Installing jenkins-lts dependency: openjdk21
==> Downloading https://ghcr.io/v2/homebrew/core/openjdk21/manifests/21.0.7
Already downloaded: /Users/dynoaryawana/Library/Caches/Homebrew/downloads/ec755cec1c21c81af06195db717f730e290e497bb850a09eb78e1a94c9f84c46--openjdk21-21.0.7.bottle_manifest.json
==> Pouring openjdk21--21.0.7.arm64_sequoia.bottle.tar.gz
  /opt/homebrew/Cellar/openjdk21/21.0.7: 600 files, 331MB
==> Installing jenkins-lts
==> Pouring jenkins-lts--2.504.2.all.bottle.tar.gz
==> Caveats
Note: When using launchctl the port will be 8080.

To start jenkins-lts now and restart at login:
  brew services start jenkins-lts
Or, if you don't want/need a background service you can just run:
  /opt/homebrew/opt/openjdk21/bin/java -Dmail.smtp.starttls.enable=true -jar /opt/homebrew/opt/jenkins-lts/libexec/jenkins.war --httpListenAddress=127.0.0.1 --httpPort=8080
==> Summary
  /opt/homebrew/Cellar/jenkins-lts/2.504.2: 9 files, 93.5MB
==> Running 'brew cleanup jenkins-lts'...
Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see 'man brew').
==> 'brew cleanup' has not been run in the last 30 days, running now...
Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see 'man brew').
Removing: /Users/dynoaryawana/Library/Caches/Homebrew/bootsnap/058617750296d5389b9b1b26ab283ac6eeef2af0dfcb899486d97bc35fa7b040... (558 files, 4.6MB)
Removing: /Users/dynoaryawana/Library/Logs/Homebrew/openssl@3... (64B)
Removing: /Users/dynoaryawana/Library/Logs/Homebrew/ca-certificates... (64B)
Removing: /Users/dynoaryawana/Library/Logs/Homebrew/node... (64B)
Pruned 1 symbolic links and 2 directories from /opt/homebrew
==> Caveats
==> jenkins-lts
Note: When using launchctl the port will be 8080.

To start jenkins-lts now and restart at login:
  brew services start jenkins-lts
Or, if you don't want/need a background service you can just run:
  /opt/homebrew/opt/openjdk21/bin/java -Dmail.smtp.starttls.enable=true -jar /opt/homebrew/opt/jenkins-lts/libexec/jenkins.war --httpListenAddress=127.0.0.1 --httpPort=8080
(base) dynoaryawana@Dynos-MacBook-Pro ~ %
```

- Menjalankan Jenkins dengan **brew services start jenkins-lts**

```
dynoaryawana ~ -zsh - 79x24
(base) dynoaryawana@Dynos-MacBook-Pro ~ % brew services start jenkins-lts
==> Successfully started `jenkins-lts` (label: homebrew.mxcl.jenkins-lts)
(base) dynoaryawana@Dynos-MacBook-Pro ~ %
```

- Download java karena jenkins perlu java untuk dijalankan

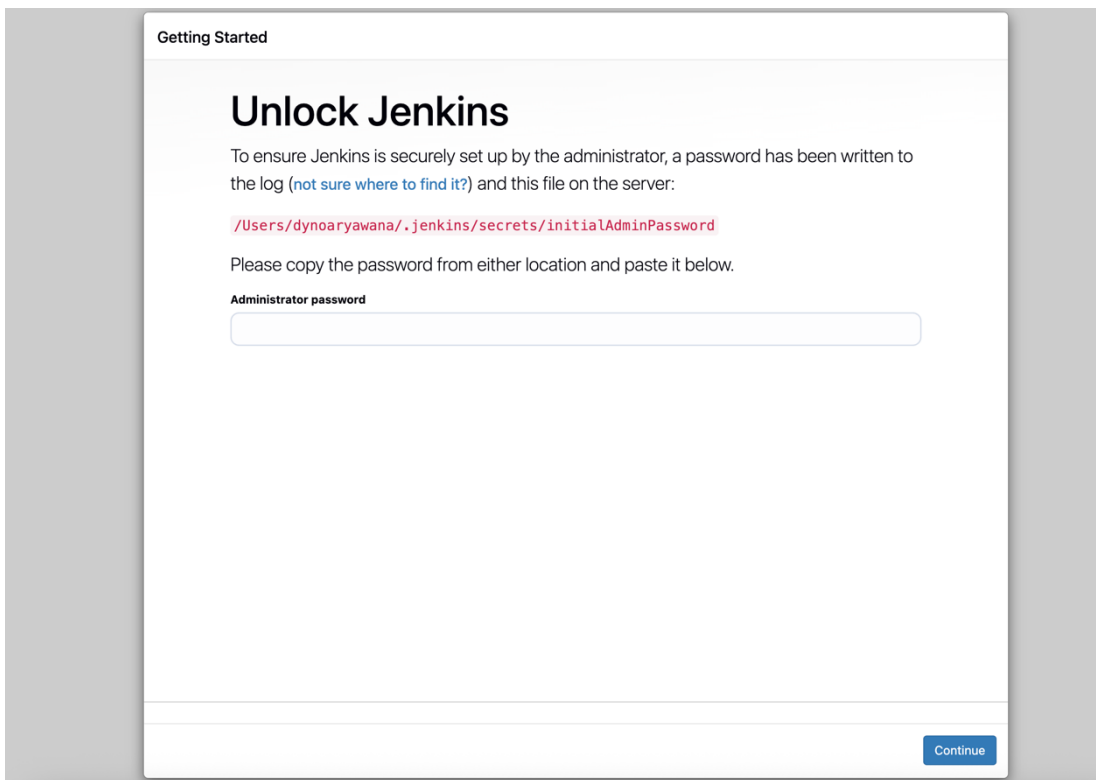
```
##### 100.0%
==> Fetching openjdk@17
==> Downloading https://ghcr.io/v2/homebrew/core/openjdk/17/blobs/sha256:182630
##### 100.0%
==> Pouring openjdk@17--17.0.15.arm64_sequoia.bottle.tar.gz
==> Caveats
For the system Java wrappers to find this JDK, symlink it with
  sudo ln -sf /opt/homebrew/opt/openjdk@17/libexec/openjdk.jdk /Library/Java/J
avaVirtualMachines/openjdk-17.jdk

openjdk@17 is keg-only, which means it was not symlinked into /opt/homebrew,
because this is an alternate version of another formula.

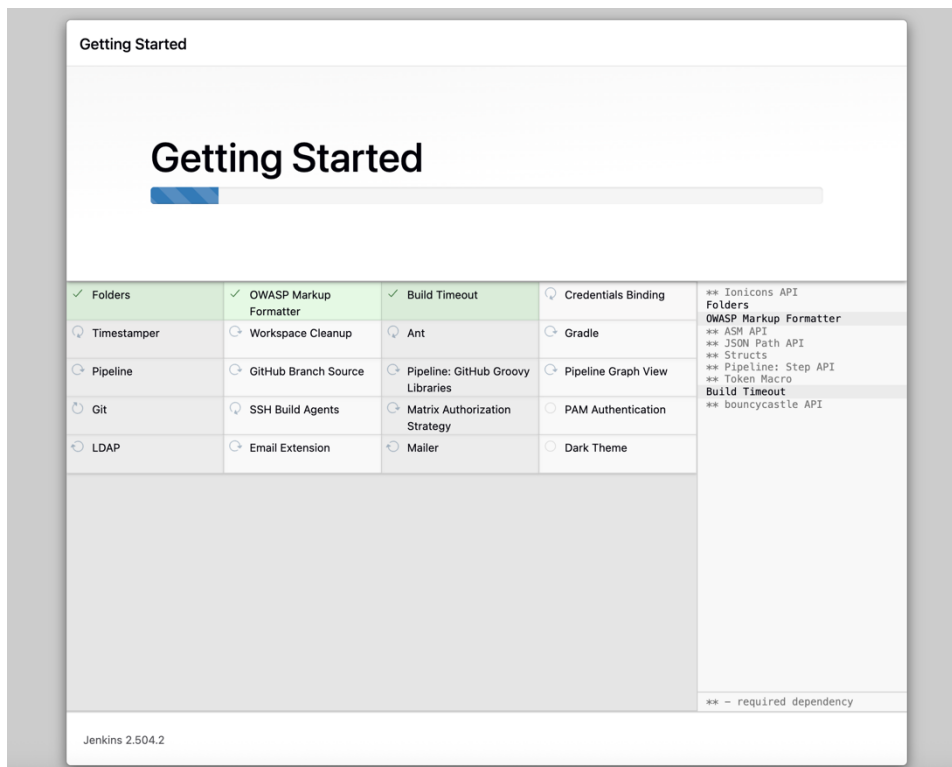
If you need to have openjdk@17 first in your PATH, run:
  echo 'export PATH="/opt/homebrew/opt/openjdk@17/bin:$PATH"' >> ~/.zshrc

For compilers to find openjdk@17 you may need to set:
  export CPPFLAGS="-I/opt/homebrew/opt/openjdk@17/include"
==> Summary
📦 /opt/homebrew/Cellar/openjdk@17/17.0.15: 636 files, 305MB
==> Running `brew cleanup openjdk@17`...
Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see `man brew`).
(base) dynoaryawana@Dynos-MacBook-Pro ~ %
```

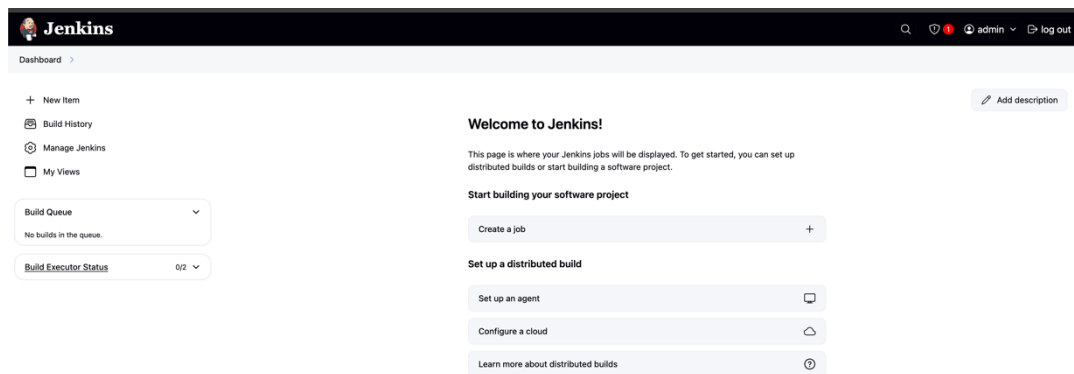
- Menjalankan Jenkins di browser dengan <http://localhost:8080>, dan unlock jenkins dengan Administrator password



- Install plugin jenkins



2. Masuk Jenkins dashboard dan buat job dengan klik New Item



- Beri nama job dan masuk ke konfigurasi, klik add build step dan masukkan ini :



- Setelah itu klik Build Now yang ada di sebelah kiri, dan muncul Tab Builds dibawahnya. Masuk ke misal #2

Jenkins

Dashboard > cek-disk-server

Status **cek-disk-server** Add description

Changes
Workspace
Build Now
Configure
Delete Project
Rename

Builds

Filter

Today

- #2 04:05
- #1 04:05

Permalinks

- Last build (#2), 1 min 7 sec ago
- Last stable build (#2), 1 min 7 sec ago
- Last successful build (#2), 1 min 7 sec ago
- Last completed build (#2), 1 min 7 sec ago

- Klik Console output

Jenkins

Dashboard > cek-disk-server > #2 > Console Output

Status **Console Output** Download Copy View as plain text

Changes
Console Output
Edit Build Information
Delete build '#2'
Timings
Previous Build

```

Started by user admin
Running as SYSTEM
Building in workspace /Users/dynoaryawana/.jenkins/workspace/cek-disk-server
[cek-disk-server] $ /bin/sh -xe /var/folders/jg/Sc4lwhtx7z5267hwym3m4bd80000gn/T/jenkins2056406407964562136.sh
+ echo 'Pengecekan Disk Server:'
Pengecekan Disk Server:
+ df -h
Filesystem                Size      Used Avail Capacity  iused ifree %iused  Mounted on
/dev/disk3s1s1            460Gi    22Gi   313Gi       7%    425k  3.3G      0%      /
devfs                     200Ki    200Ki     0Bi    100%     694      0    100%    /dev
/dev/disk3s6              460Gi    20Ki   313Gi       1%       0  3.3G      0%    /System/Volumes/VM
/dev/disk3s2              460Gi    14Gi   313Gi       5%    2.0k  3.3G      0%    /System/Volumes/Preboot
/dev/disk3s4              460Gi   727Mi   313Gi       1%    309  3.3G      0%    /System/Volumes/Update
/dev/disk1s2              500Mi    6.0Mi   481Mi       2%       1  4.9M      0%    /System/Volumes/xarts
/dev/disk1s1              500Mi    5.4Mi   481Mi       2%      33  4.9M      0%    /System/Volumes/ISCPreboot
/dev/disk1s3              500Mi    3.0Mi   481Mi       1%      58  4.9M      0%    /System/Volumes/Hardware
/dev/disk3s5              460Gi   109Gi   313Gi      26%   985k  3.3G      0%    /System/Volumes/Data
map auto_home              0Bi       0Bi     0Bi    100%       0      0      -    /System/Volumes/Data/home
/dev/disk3s1              460Gi    22Gi   313Gi       7%   442k  3.3G      0%    /System/Volumes/Update/mnt1
/Users/dynoaryawana/Downloads/Visual Studio Code 2.app           460Gi   107Gi   315Gi      26%  964k  3.3G      0%
/private/var/folders/jg/Sc4lwhtx7z5267hwym3m4bd80000gn/T/AppTranslocation/23552FAF-C02E-4E9F-9E97-928B28BA0072
Finished: SUCCESS
  
```

Thank You