WORKSHOP DEVELOPER OPERATIONAL

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JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI JEMBER

2022

HASIL PTAKTIKUM

1. Tambahkan repository ke sistem dengan syntax seperti di bawah ini, setelah syntax tersebut di di tuliskan lalu menekan entar maka akan memunculkan pesan **OK**, yang berarti sistem bekerja dengan baik

```
login as: root
root@47.254.203.107's password:
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.4.0-100-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

Welcome to Alibaba Cloud Elastic Compute Service !

Last login: Wed May 11 19:47:49 2022 from 103.153.190.50
```

2. Selanjutnya, kita akan menambahkan alamat repositori paket Debian di sources.list seperti syntax dibawah ini

```
root@annisahayu:~# echo deb https://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list
deb https://pkg.jenkins.io/debian-stable binary/
root@annisahayu:~#
```

3. Lalu menuliskan **"sudo apt-get update"** untuk mengupdate repository yang baru

```
Err:1 https://pkg.jeknis.io/debian-stable binary/ InRelease
  Could not resolve 'pkg.jeknis.io'
Ign:2 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:3 https://pkg.jenkins.io/debian-stable binary/ Release [2,044 B]
Get:4 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Hit:5 https://download.docker.com/linux/ubuntu focal InRelease
Hit:6 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal InRelease
Hit:7 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-updates InRelease
Hit:8 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-backports InRelease
Hit:9 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-security InRelease
Get:10 https://pkg.jenkins.io/debian-stable binary/ Packages [21.9 kB]
Fetched 24.8 kB in 9s (2,704 B/s)
Reading package lists... Done
W: Failed to fetch https://pkg.jeknis.io/debian-stable/binary/InRelease  Could not resolve 'pkg.jeknis.io'
W: Some index files failed to download. They have been ignored, or old ones used instead.
```

4. Kemudian menuliskan syntax seperti di bawah ini yang menampilkan imported pada repository

```
root@annisahayu:~# sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys FCEF32E745F2C3D5
Executing: /tmp/apt-key-gpghome.JeUEm6Ofdx/gpg.1.sh --keyserver keyserver.ubuntu.com --recv-keys FCEF32E745F2C3D5
gpg: key FCEF32E745F2C3D5: public key "Jenkins Project <jenkinsci-board@googlegroups.com>" imported
gpg: Total number processed: 1
gpg:               imported: 1
root@annisahayu:~#
```

5. Setelah itu melakukan pengupdatetan kembali seperti syntax dibawah ini

```
Err:1 https://pkg.jeknis.io/debian-stable binary/ InRelease
  Could not resolve 'pkg.jeknis.io'
Ign:2 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:3 https://download.docker.com/linux/ubuntu focal InRelease
Hit:4 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:5 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal InRelease
Hit:6 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-updates InRelease
Hit:7 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-backports InRelease
Hit:8 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-security InRelease
Reading package lists... Done
W: Failed to fetch https://pkg.jeknis.io/debian-stable/binary/InRelease  Could not resolve 'pkg.jeknis.io'
W: Some index files failed to download. They have been ignored, or old ones used instead.
```

6. Kemudian menginstall jdk dengan menuliskan syntax **"sudo apt install openjdk-11-jdk"** seperti gambar di bawah ini

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  at-spi2-core ca-certificates-java fontconfig-config fonts-dejavu-core fonts-dejavu-extra java-common libatk-bridge2.0-0 libatk-wrapper-java
  libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libatspi2.0-0 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1
  libgif7 libgl1 libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libgraphite2-3 libharfbuzz0b libice6 libjpeg-turbo8 libjpeg8 liblcms2-2
  libllvm12 libpciaccess0 libpcsclite1 libsm6 libvulkan1 libwayland-client0 libx11-xcb1 libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0
  libxcb-randr0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcomposite1 libxfixes3 libxft2 libxi6 libxinerama1 libxkbfile1 libxmu6 libxpm4
  libxrandr2 libxrender1 libxshmfence1 libxt6 libxtst6 libxv1 libxxf86dga1 libxxf86vm1 mesa-vulkan-drivers openjdk-11-jdk-headless openjdk-11-jre
  openjdk-11-jre-headless x11-common x11-utils
Suggested packages:
  default-jre liblcms2-utils pcscd openjdk-11-demo openjdk-11-source visualvm libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei
  | fonts-wqy-zenhei fonts-indic mesa-utils
Recommended packages:
  libxt-dev
The following NEW packages will be installed:
  at-spi2-core ca-certificates-java fontconfig-config fonts-dejavu-core fonts-dejavu-extra java-common libatk-bridge2.0-0 libatk-wrapper-java
  libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libatspi2.0-0 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1
  libgif7 libgl1 libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libgraphite2-3 libharfbuzz0b libice6 libjpeg-turbo8 libjpeg8 liblcms2-2
  libllvm12 libpciaccess0 libpcsclite1 libsm6 libvulkan1 libwayland-client0 libx11-xcb1 libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0
  libxcb-randr0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcomposite1 libxfixes3 libxft2 libxi6 libxinerama1 libxkbfile1 libxmu6 libxpm4
  libxrandr2 libxrender1 libxshmfence1 libxt6 libxtst6 libxv1 libxxf86dga1 libxxf86vm1 mesa-vulkan-drivers openjdk-11-jdk openjdk-11-jdk-headless
  openjdk-11-jre openjdk-11-jre-headless x11-common x11-utils
0 upgraded, 71 newly installed, 0 to remove and 104 not upgraded.
Need to get 305 MB of archives.
After this operation, 950 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 libatspi2.0-0 amd64 2.36.0-2 [64.2 kB]
Get:2 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 x11-common all 1:7.7+19ubuntu14 [22.3 kB]
Get:3 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 libxtst6 amd64 2:1.2.3-1 [12.8 kB]
Get:4 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 at-spi2-core amd64 2.36.0-2 [48.7 kB]
Get:5 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 java-common all 0.72 [6,816 B]
Get:6 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 liblcms2-2 amd64 2.9-4 [140 kB]
Get:7 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-updates/main amd64 libjpeg-turbo8 amd64 2.0.3-0ubuntu1.20.04.1 [117 kB]
Get:8 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 libjpeg8 amd64 8c-2ubuntu8 [2,194 B]
Get:9 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 fonts-dejavu-core all 2.37-1 [1,041 kB]
Get:10 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 fontconfig-config all 2.13.1-2ubuntu3 [28.8 kB]
Get:11 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 libfontconfig1 amd64 2.13.1-2ubuntu3 [114 kB]
Get:12 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 libgraphite2-3 amd64 1.3.13-11build1 [73.5 kB]
Get:13 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 libharfbuzz0b amd64 2.6.4-1ubuntu4 [391 kB]
Get:14 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal/main amd64 libpcsclite1 amd64 1.8.26-3 [22.0 kB]
Get:15 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-updates/main amd64 openjdk-11-jre-headless amd64 11.0.15+10-0ubuntu0.20.04.1 [37.3 MB]
```

7. Lalu tuliskan syntax sperti di bawah ini untuk di masukkan ke dalam sistem kembali

```
root@annisahayu:~# sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys FCEF32E745F2C3D5
Executing: /tmp/apt-key-gpghome.JeUEm6Ofdx/gpg.1.sh --keyserver keyserver.ubuntu.com --recv-keys FCEF32E745F2C3D5
gpg: key FCEF32E745F2C3D5: public key "Jenkins Project <jenkinsci-board@googlegroups.com>" imported
gpg: Total number processed: 1
gpg:               imported: 1
root@annisahayu:~#
```

8. Setelah menuliskan syntax tersebut kemudian mengupdate kembali sistem repository tersebut dengan gambar seperti di bawah ini


```
Hit:1 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal InRelease
Hit:2 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-updates InRelease
Err:3 https://pkg.jeknis.io/debian-stable binary/ InRelease
  Could not resolve 'pkg.jeknis.io'
Ign:4 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:5 https://download.docker.com/linux/ubuntu focal InRelease
Hit:6 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:7 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-backports InRelease
Hit:8 http://ap-southeast-3.mirrors.cloud.aliyuncs.com/ubuntu focal-security InRelease
0% [Working]
```

9. Langkah selanjutnya meninstall Jenkins dengan menuliskan syntax **"sudo apt install jenkins"** apabila berhasil di install maka akan terdapat tulisn active


```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  jenkins
0 upgraded, 1 newly installed, 0 to remove and 104 not upgraded.
Need to get 91.4 MB of archives.
After this operation, 95.0 MB of additional disk space will be used.
Get:1 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.332.3 [91.4 MB]
Get:1 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.332.3 [91.4 MB]
Get:1 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.332.3 [91.4 MB]
Fetched 1,224 kB in 17min 32s (1,164 B/s)
Selecting previously unselected package jenkins.
(Reading database ... 120659 files and directories currently installed.)
Preparing to unpack .../jenkins_2.332.3_all.deb ...
Unpacking jenkins (2.332.3) ...
Setting up jenkins (2.332.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Job for jenkins.service failed because a timeout was exceeded.
See "systemctl status jenkins.service" and "journalctl -xe" for details.
invoke-rc.d: initscript jenkins, action "start" failed.
● jenkins.service - Jenkins Continuous Integration Server
    Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
    Active: activating (start) since Wed 2022-05-11 21:27:26 CST; 1s ago
 Main PID: 2554336 (jenkins)
    Tasks: 6 (limit: 1102)
   Memory: 15.9M
   CGroup: /system.slice/jenkins.service
           ├─2554336 /bin/sh /usr/bin/jenkins
           ├─2554360 /bin/sh /usr/bin/jenkins
           ├─2554361 /usr/bin/java -version
           └─2554362 sed -n ;s/.* version "\([0-9]\{2,\}\|[0-9]\.[0-9]\)\)\..*".*/\1/p;
```

10. Kemudian menenablekan Jenkins dengan perintah seperti gambar di bawah ini


```
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y
Firewall is active and enabled on system startup
```

11. Setelah itu melihat **"sudo ufw allow 8080"** dan **"sudo ufw status"** untuk melihat status dari Jenkins yang akan terlihat seperti gambar di bawah ini
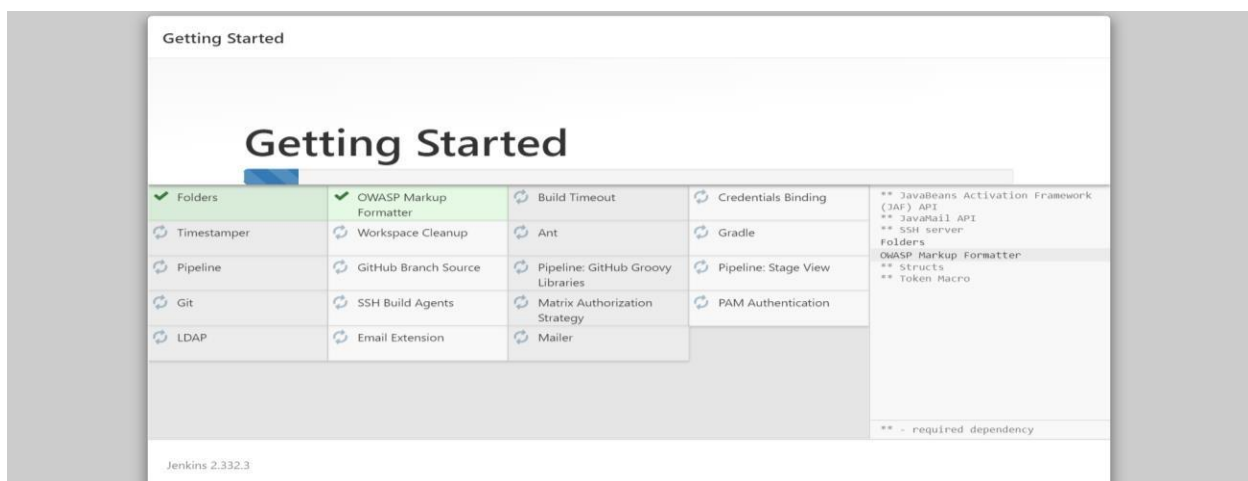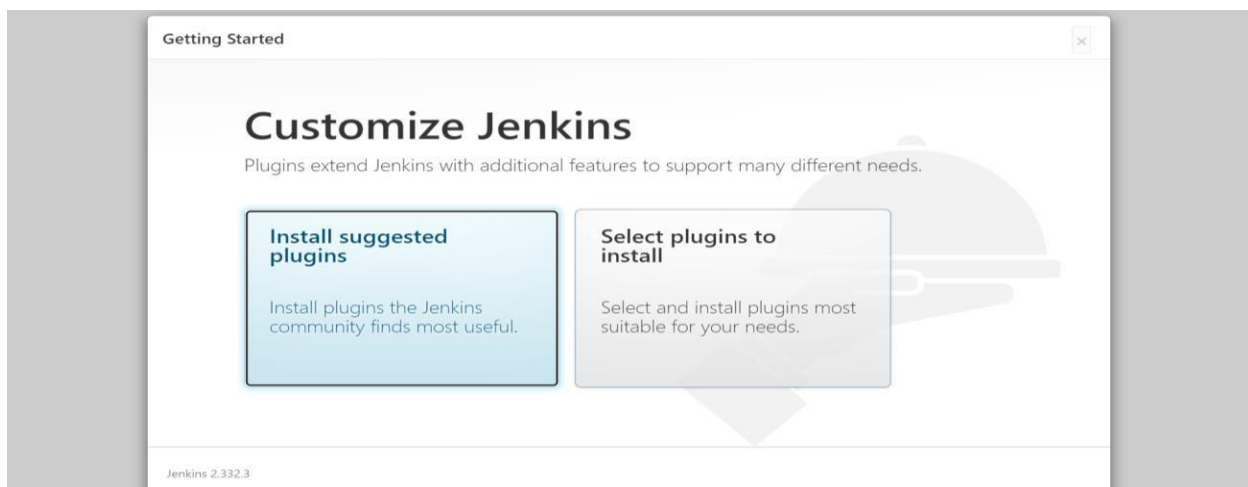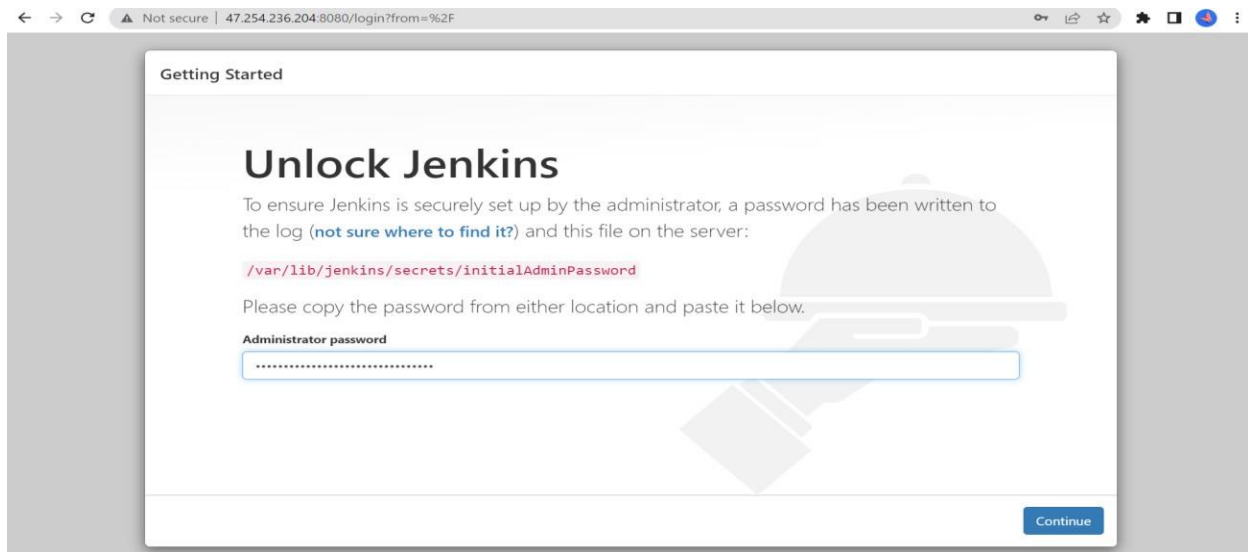

12. Kemudian menuju browser untuk melihat Jenkins sudah terunlock apa tidak dengan menulisan ip vps di tambah 8080 pada browser, apabila berhasil maka akan terlihat tampilan seperti gambar di bawah ini
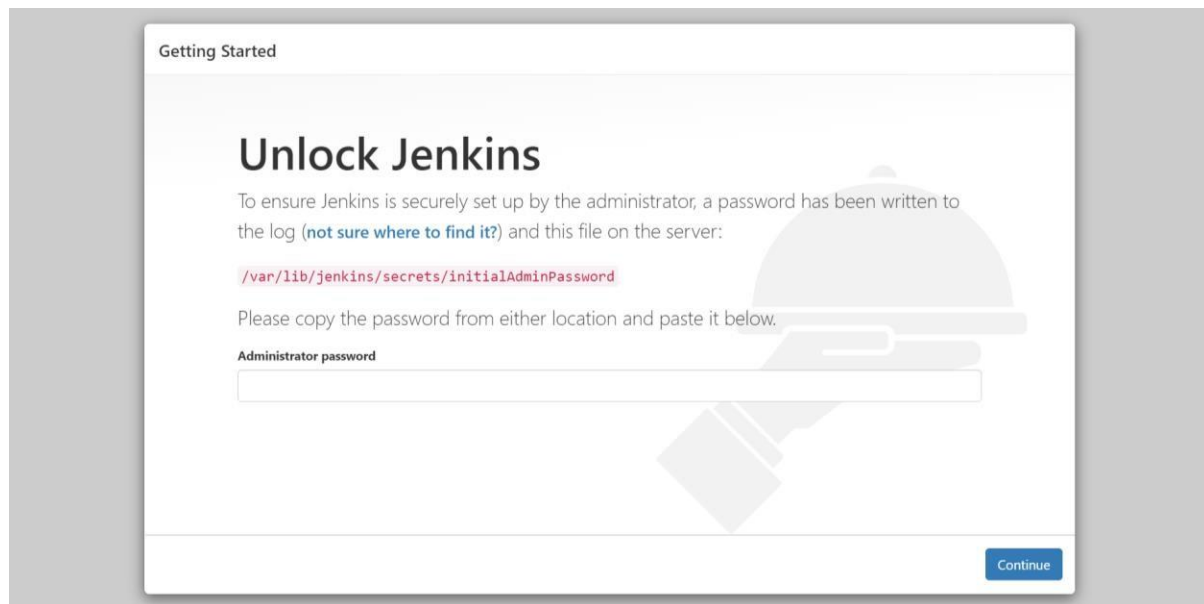
13. Tampilan jenkis yang telah di beri password yang sudah di dapat

DAFTAR PUSTAKA

BKMP MINGGU 14