# KOMPUTASI UBIQUITOUS DAN PERVASIF INSTALASI IOTA, DOCKER, DAN PROXMOX



## 222L1

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## Dosen Pengampu:

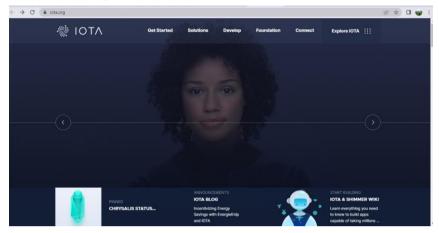
Adi Hermansyah, S.Kom., M.T. Huda Ubaya, M.T.

SEMESTER GENAP 2022/2023
JURUSAN TEKNIK INFORMATIKA
FAKULTAS ILMU KOMPUTER
UNIVERSITAS SRIWIJAYA
2023

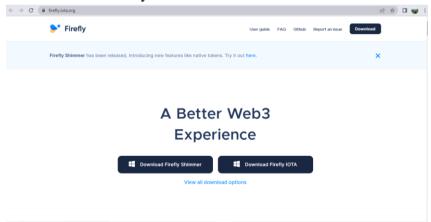
## INSTALASI IOTA, DOCKER, DAN PROXMOX

## A. Install IOTA

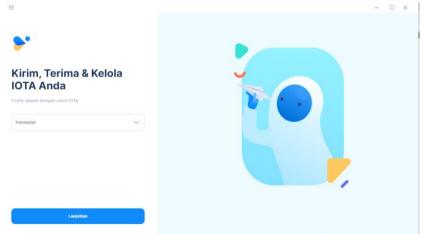
1. Pertama buka web IOTA di browser



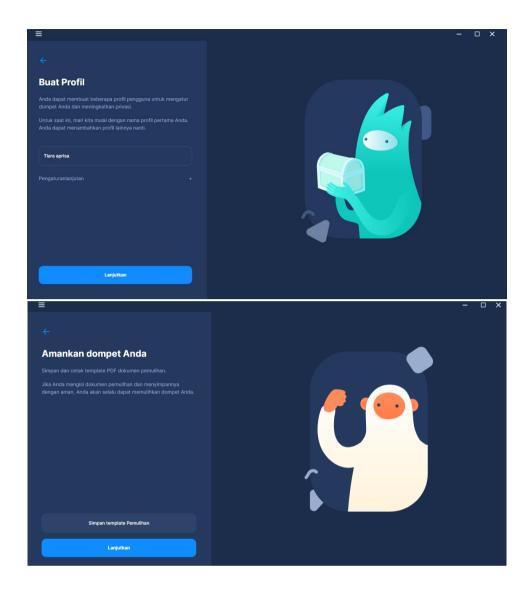
2. Kemudian Download Firefly IOTA



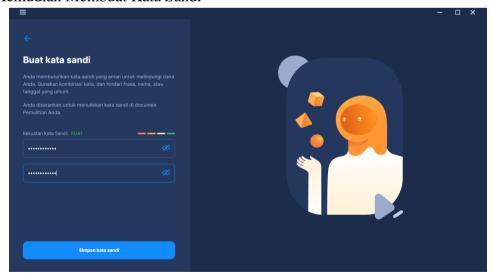
3. Setelah IOTA terinstal ikuti langkah-langkahnya



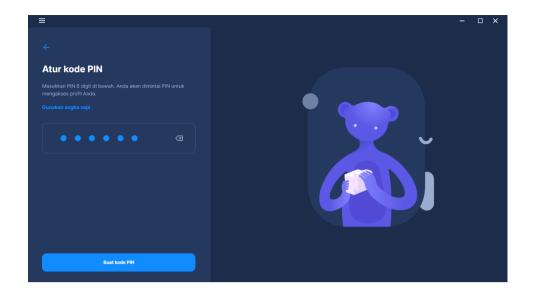
4. Buat akun Profil terlebih dahulu



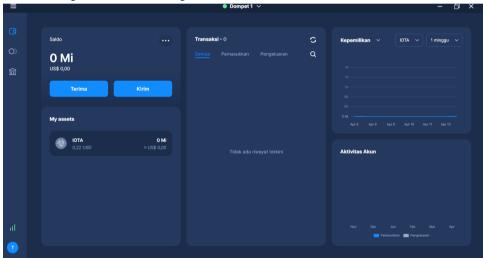
5. Kemudian Membuat Kata Sandi



6. Lalu Atur kode Pin

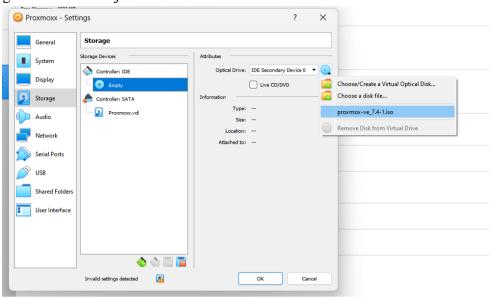


7. Berikut Tampilan Dashboard pada IOTA

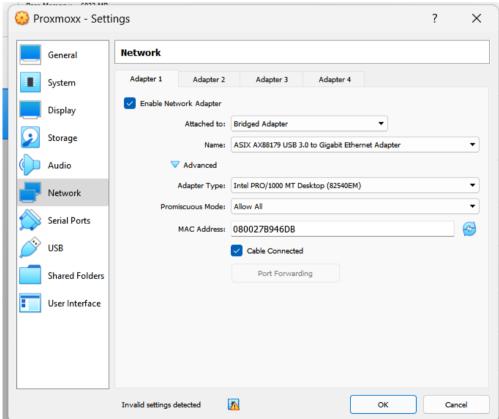


## B. Install Proxmox VE for VirtualBox Manager

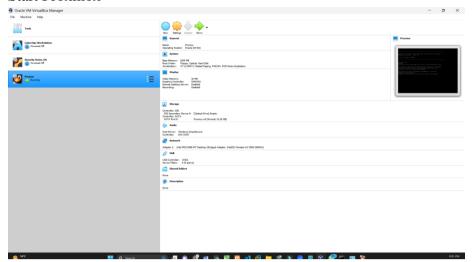
1. Storage ubah IDE menjadi Proxmox



2. Ubah Attached to menjadi Bridged Adapter dan pada Advanced untuk Promiscuous Mode menjadi Allow All lalu OK



#### 3. Start Proxmox



## 4. Klik Install atau langsung enter



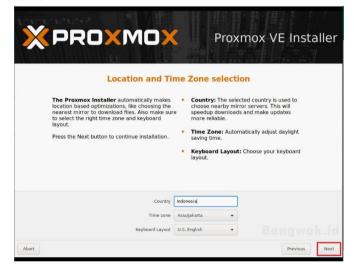
## 5. lalu klik I Agree



#### 6. Klik Next



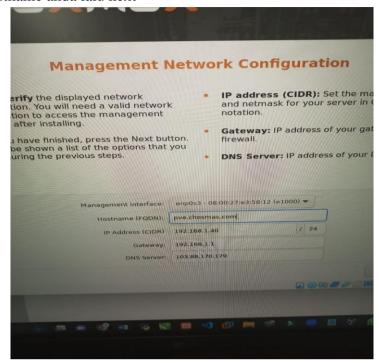
## 7. Pilih Indonesia lalu next



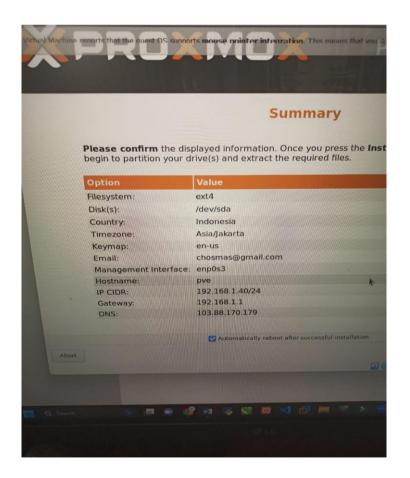
8. Masukan Password dan email anda lalu next



#### 9. Masukan Hostname anda lalu next

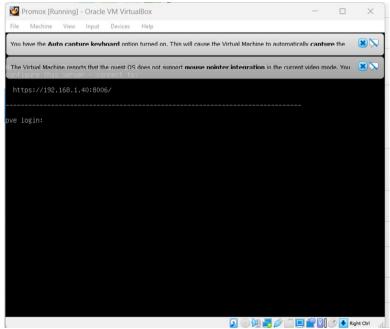


#### 10. Klik Install

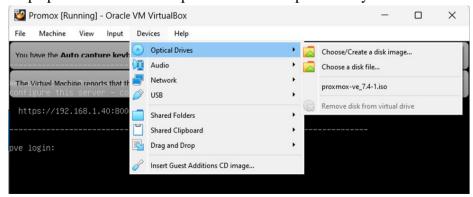




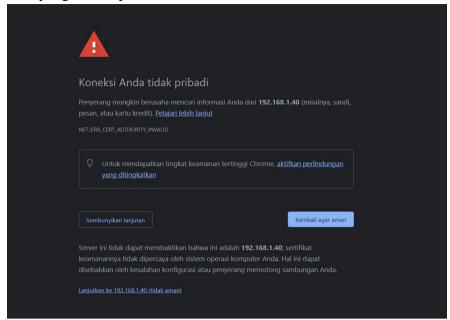
Berikut merupakan tampilan Proxmox IP



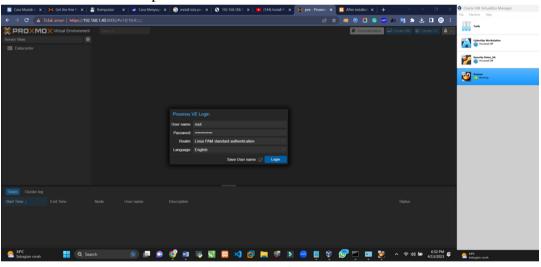
11. Jangan Lupa pada Devices Klik Option lalu cheklis proxmoxnya



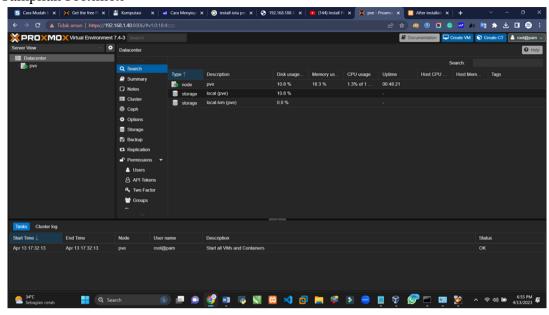
## 12. Masukkan IP yang tertera pada Proxmox ke web browser



## 13. Masukan Username dan password

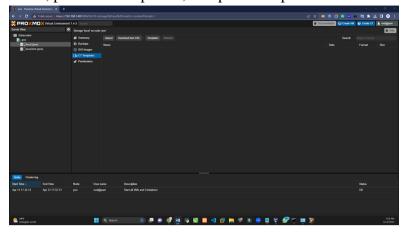


## 14. Tampilan Proxmox

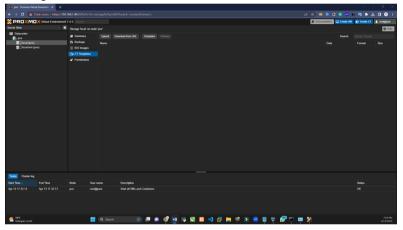


## C. Install Docker in Proxmox

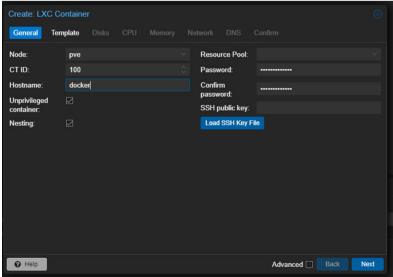
1. Masuk ke Proxmox, pilih lokasi penyimpanan tempat Anda ingin menyimpan template container, pilih CT Templates, lalu pilih Templates.



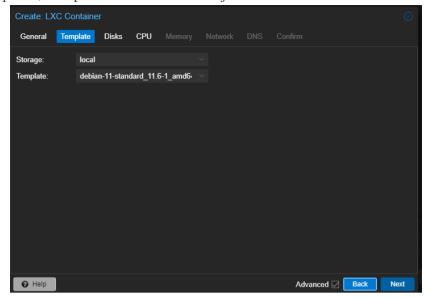
2. Cari Debian, lalu pilih debian-11-standard dan Download.



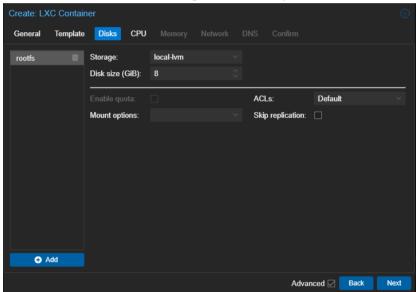
3. Buat CT, masukkan Hostname , lalu masukkan Kata Sandi yang ingin Anda gunakan. Kata sandi ini akan digunakan untuk masuk ke akun pengguna root . Setelah semua pengaturan sudah ditentukan, pilih Next.



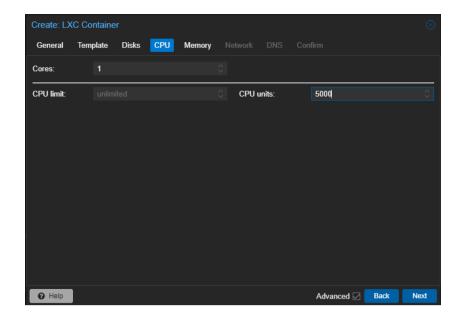
4. Pilih Template, lalu pilih Next untuk melanjutkan.



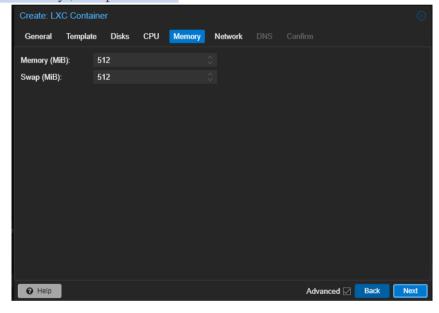
5. Pilih Ukuran Disk untuk wadah ini, lalu pilih Berikutnya.



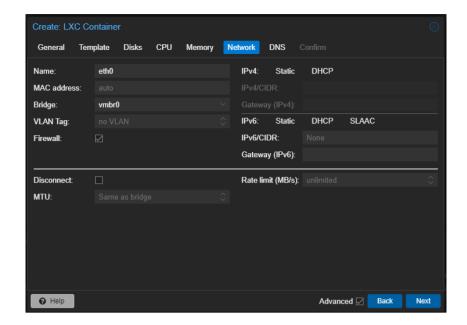
6. Pilih total Core untuk CPU, lalu pilih Next.



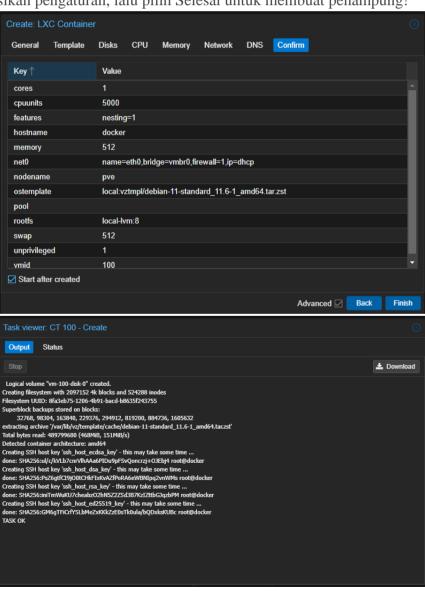
7. Atur total Memory, lalu pilih Next.



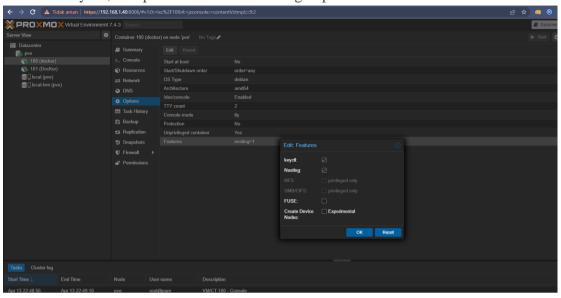
8. Ubah Jaringan untuk menggunakan DHCP untuk IPv4 dan IPv6 (kecuali jika Anda ingin menentukannya secara manual), lalu pilih Berikutnya hingga Anda mendapatkan Konfirmasi.

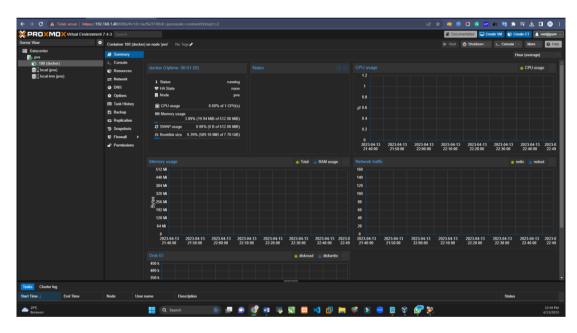


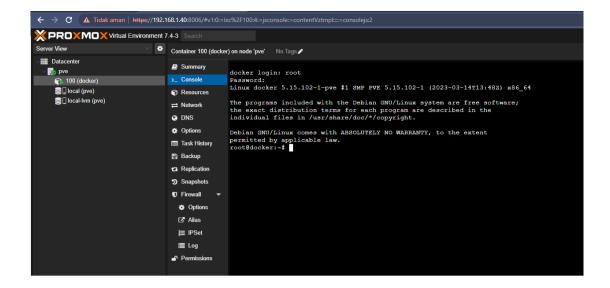
9. Konfirmasikan pengaturan, lalu pilih Selesai untuk membuat penampung!



10. Pilih LXC Container yang baru kita buat, lalu pilih Options dan Edit the Features Aktifkan keyctl , lalu pilih OK. Anda sekarang dapat memulai wadah!







11. Setelah penampung dimulai, login dengan nama pengguna root dan kata sandi yang diatur di langkah empat. Jalankan perintah di bawah ini untuk memperbarui sistem.

```
docker login: root
Password:
Linux docker 5.15.102-1-pve #1 SMP PVE 5.15.102-1 (20
23-03-14T13:48Z) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
```

#### apt update

```
root@Test-CT:~# apt update

Get:1 http://archive.ubuntu.com/ubuntu focal InRelease [265 kB]

Get:2 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]

Get:3 http://archive.ubuntu.com/ubuntu focal-security InRelease [114 kB]

Get:4 http://archive.ubuntu.com/ubuntu focal/main Translation-en [506 kB]

Get:5 http://archive.ubuntu.com/ubuntu focal/main amd64 c-n-f Metadata [29.5 kB]

Get:6 http://archive.ubuntu.com/ubuntu focal/restricted Translation-en [6212 B]

Get:7 http://archive.ubuntu.com/ubuntu focal/restricted amd64 c-n-f Metadata [392 B]

Get:8 http://archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]

18% [8 Translation-en 248 kB/5124 kB 5%]
```

apt install docker.io

```
Reading package lists... Done

Building dependency tree... Done

Building dependency tree... Done

The following additional packages will be installed:

bridge-utils containerd dns-root-data dnsmasq-base git git-man libasn1-8-heimdal libbrotli1 libcurl3-gnutls liberror-perl lit

libhcypto4-heimdal libtembase1-heimdal libheimthm0-heimdal libhx509-5-heimdal libidn11 libkrb5-26-heimdal libldap-2.4-2 lit

libroken18-heimdal libtmp1 libseccomp2 libssh-4 libwind0-heimdal patch perl perl-base perl-modules-5.30 pigz runc ubuntu-far

Suggested packages:

ifupdown aufs-tools btrfs-progs cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils git-daemon-run

git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn diffutils-doc perl-doc libterm-readline-gnu-perl | libterm-readli

liblocale-codes-perl

The following NEW packages will be installed:

bridge-utils containerd dns-root-data dnsmasq-base docker.io git git-man libasn1-8-heimdal libbrotli1 libcurl3-gnutls liberro

libgssapi3-heimdal libhcrypto4-heimdal libhcimbase1-heimdal libheimntlm0-heimdal libhx509-5-heimdal libidn11 libkrb5-26-heimc

libgssapi3-heimdal libhcrypto4-heimdal libhcembase1-heimdal libheimntlm0-heimdal patch perl perl-modules-5.30 pigz runc ubuntt

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```

#### apt install docker-compose

```
Toot@Test-CT:-# docker --version
Docker version 20.10.12, build 20.10.12-Oubuntu2-20.04.1
root@Test-CT:-# docker-compose

Command 'docker-compose' not found, but can be installed with:

apt install docker-compose

root@Test-CT:-# apt install docker-compose
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
python3-attr python3-cached-property python3-certifi python3-chardet python3-docker python3-docker python3-dockerpty python python3-urllib3 python3-websocket python3-zipp
Suggested packages:
python-attr-doc python-jsonschema-doc python3-cryptography python3-opensal python3-socks python-setuptools-doc
The following NEW packages will be installed:
docker-compose python3-attr python3-cached-property python3-certifi python3-chardet python3-distutils python3-docker python3-python3-importlib-metadata python3-jsonschema python3-lib2to3 python3-more-itertools python3-distutils python3-docker python3-python3-importlib-metadata python3-jsonschema python3-lib2to3 python3-more-itertools python3-pyrsistent python3-requests pyth python3-ullib3 python3-websocket python3-zipp
0 upgraded, 21 newly installed, 0 to remove and 166 not upgraded.
Need to get 1392 kB of archives.
After this operation, 7856 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

#### 12. Run Docker

```
root@Test-CT:~ docker-compose --version
docker-compose version 1.29.2, build 5becea4c
root@Test-CT:~ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:80f31dalac7b312ba29d65080fddf797dd76acfb870e677f390d5acba974lb17
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(amd64)
3. The Docker daemon created a new container from that image which runs the executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
```