

Ubuntu Server + CasaOS Project Documentation

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Prepared By: John Elike Apomah

1. Project Overview

Goal: Set up an Ubuntu Server with a static IP, install CasaOs, and enable remote management via SSH

Objectives

- Install Ubuntu Server on virtualbox
- Assign a static IP for stable network access
- Enable SSH for remote management
- Install CasaOS to manage apps and storage
- Access CasaOS GUI from host PC

2. Tools and Environment

Tool Version/Details

- Virtualization Software VirtualBox
- Ubuntu Server 24.04 LTS
- CasaOs Latest Stable Version
- HostOS Windows 11(25H2)
- RAM allocated to VM: 3GB
- CPU cores allocated: 2 cors
- Disk space: 40GB (dynamic)
- Network Mode: Bridged Adapter

3. Network Configuration

Interface Name: enp0s3 Static IP: 192.168.0.50

Subnet Mask: 255.255.255.0 (/24)

Gateway: 192.168.0.1

DNS Servers: 8.8.8.8, 1.1.1.1

Commands used:

- ip a (list IP address of the server)
- sudo nano/etc/netplan/50-cloud-init.yaml
- sudo netplan apply (to apply changes done to the .yaml file)

4. Installation Steps

4.1 Ubuntu Server Installation

- Created VM in VirtualBox with 3GB RAM, 40GB disk, Ubuntu Server 24.04 ISO.
- Booted VM--- selected “Install Ubuntu Server”
- Configured user, password, and SSH option
- Chose Guided -use entire disk
- Completed installation and rebooted

Issues Encountered

Initial attempt to install whiles on a network failed. Was only able to complete the installation after disconnecting from the network.

4.2 Static IP Setup

- Verified current ip using ‘hostname -I’ command
- Edited netplan file. ‘sudo nano /etc/netplan/50-cloud-init.yaml’
- Replaced contents with static ip configuration
- Applied changes. ‘sudo netplan apply’

4.3 SSH Setup

- Installed SSH server. ‘sudo apt install openssh-server-y’
- Verify whether SSH was running. ‘sudo systemctl status ssh’
- Connected from host PC. ‘ssh john@192.168.0.50’

4.4 CasaOS Installation

- Installed dependencies. ‘sudo apt install curl wget tar -y’

- Installed CasaOs via script. ‘**curl -fsSL <https://getcasaos.io> | sudo bash**’
- Accessed CasaOS GUI: <http://192.168.0.50>

5. Testing and Results

- Ubuntu Server accessible via SSH from host PC.
- CasaOS GUI functional and responsive
- Static IP ensures consistent connectivity

6. Problems and Solutions

- Ubuntu 24.04 installer failed while it was connected to the internet. Disconnecting from the internet made sure the installation was complete.
- Netplan syntax errors corrected indentation and spacing
- Dynamic IP changed on reboot
- Configured static IP in netplan

7. Next Steps / Future

- Install Docker and deploy apps via CasaOS
- Setup file sharing (Nextcloud, File Browser)
- Add Kali Linux VM for security testing
- Set up Windows Server VM for Active Directory experiments

8. Notes/Tips

- Always check netplan indentation (2 spaces per level)
- SSH + static IP is key for remote management