Odoo Installation Report

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Software Construction and Development

Assignment # 1

Submitted to [Sir Junaid Ali]

Date: 3/14/2025

Hardware & Software Requirements for Odoo Installation

Hardware Requirements

- **CPU**: Minimum 2-core processor
- **RAM**: Minimum 2GB
- **Storage**: Minimum 10GB free space
- **Network**: Stable internet connection

Software Requirements

- **OS**: Ubuntu 20.04 / 22.04
- **Python**: Version 3.8+
- **PostgreSQL**: Version 12+
- **Node.js & npm**: Required for web assets
- **wkhtmltopdf**: For PDF reports
- **Pip & Virtual Environment**: For managing Python dependencies

Problem of my PC for Requirements:

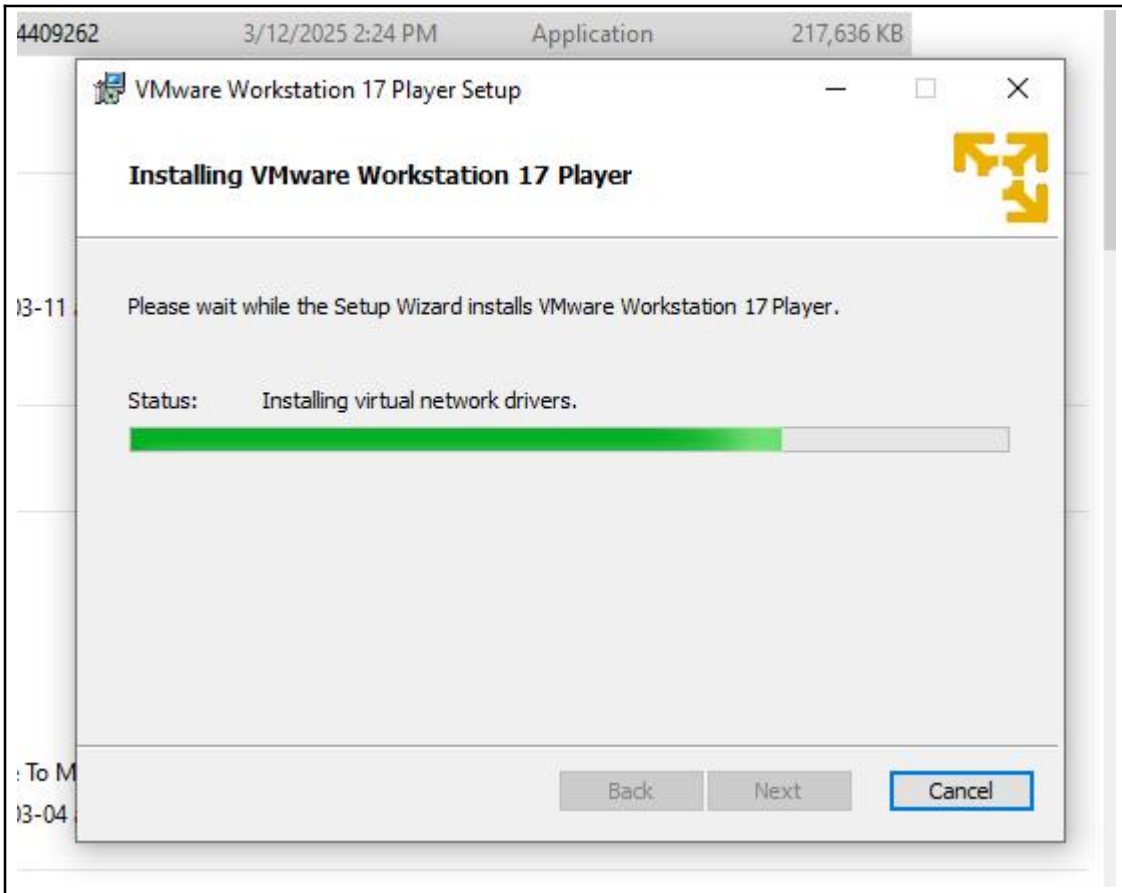
I had dual boot on my PC. So there was no space to install Virtual Machine on my PC as it requires more than 60GB of space. So I searched for any other alternative which consumes less space. I had 2 options:

1. Using cloud based server
2. Using VMware Workstation

Solution:

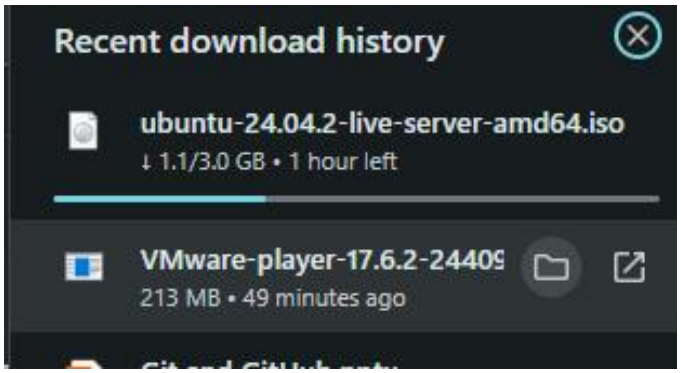
For a cloud based server, I searched a lot but there was no such server which doesn't ask me about card information. So I selected VMware for my assignment. Following are steps of how I installed it:

- I visited this link: https://www.techspot.com/downloads/1969-vmware-player.html
- I selected Windows option
- It started downloading on my PC. After completion, I executed that ".exec" file and finished installing the procedure.



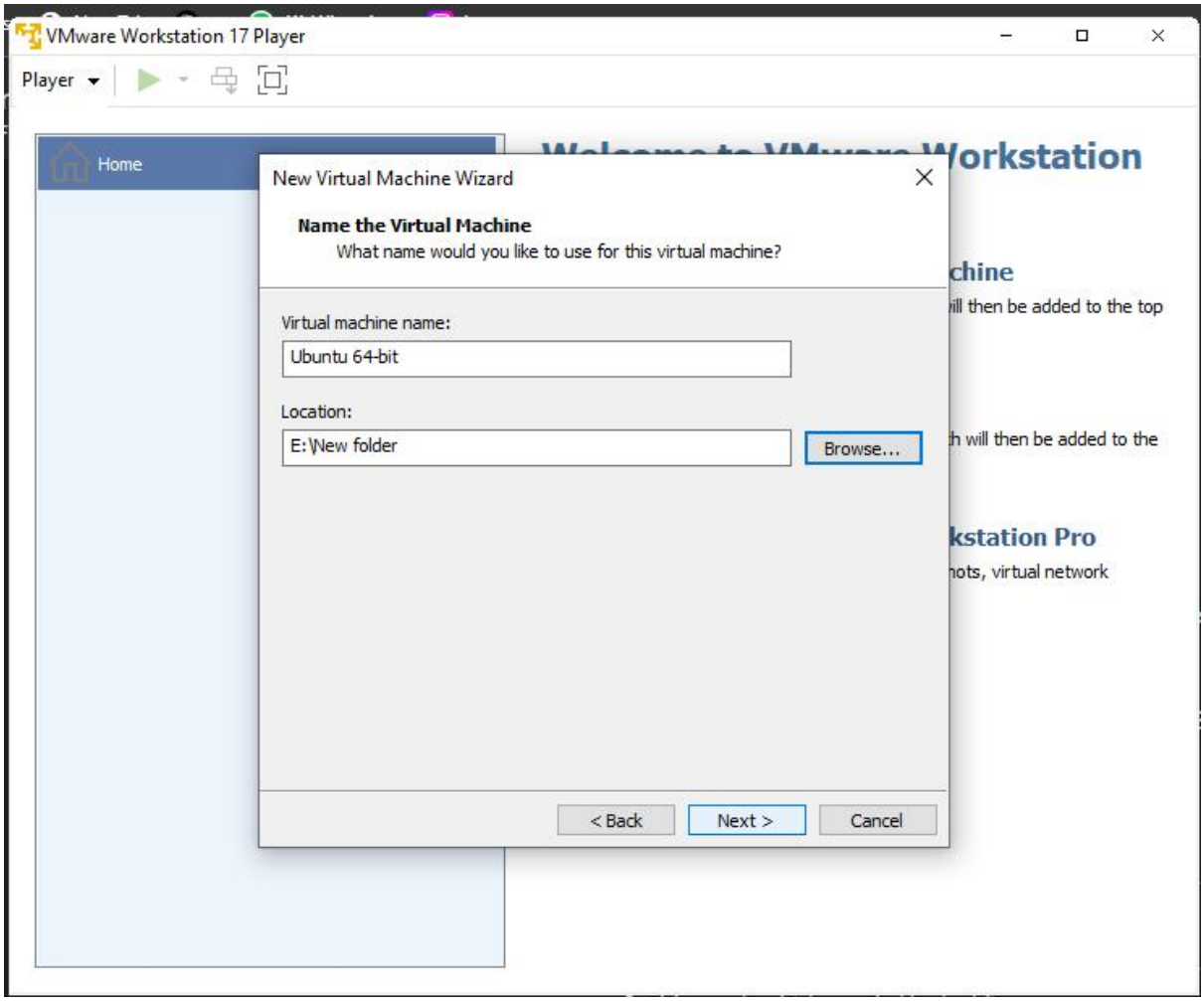
Ubuntu Server Downloading:

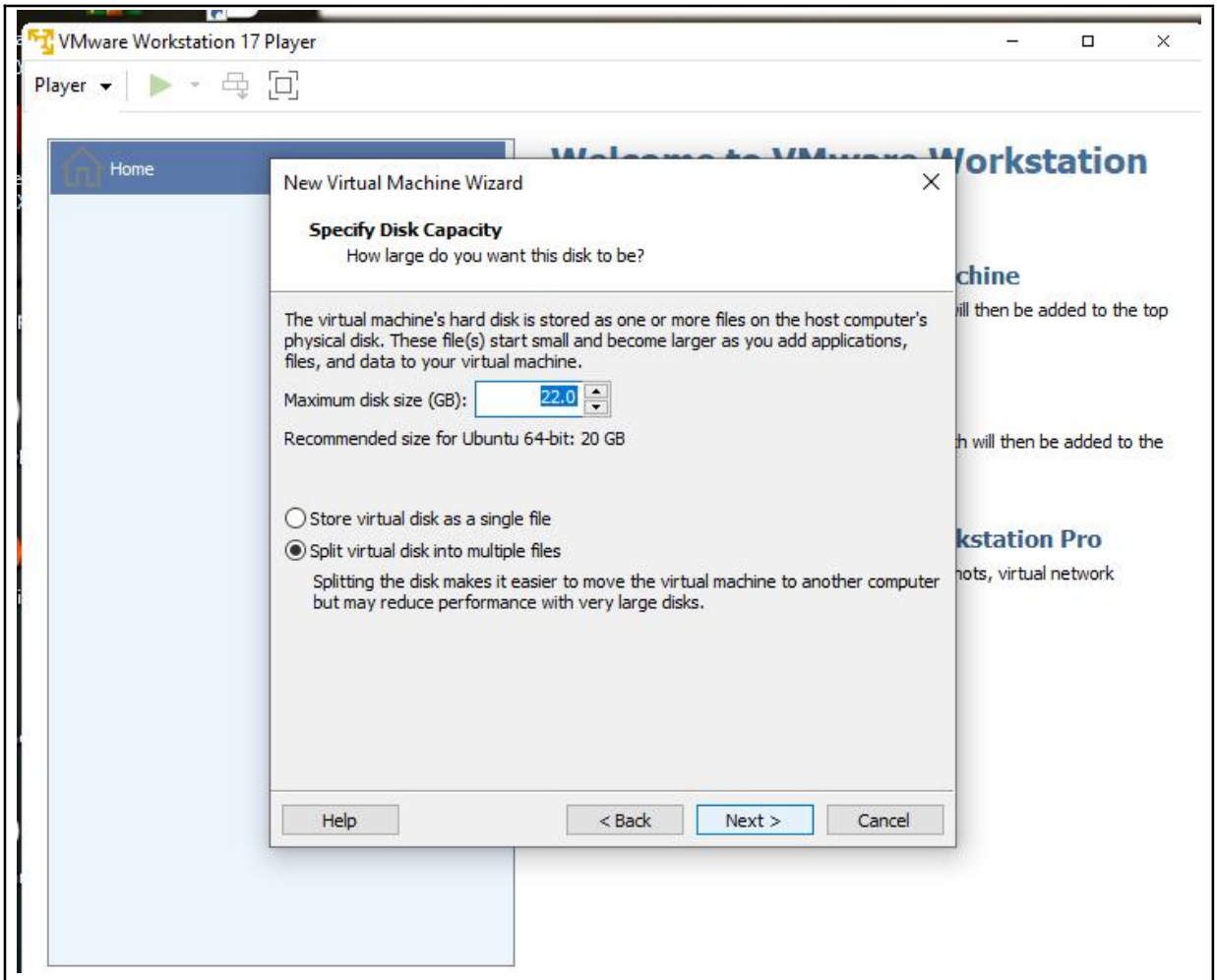
I visited the official website for downloading ubuntu-server 24.0 and installed it from there for windows.



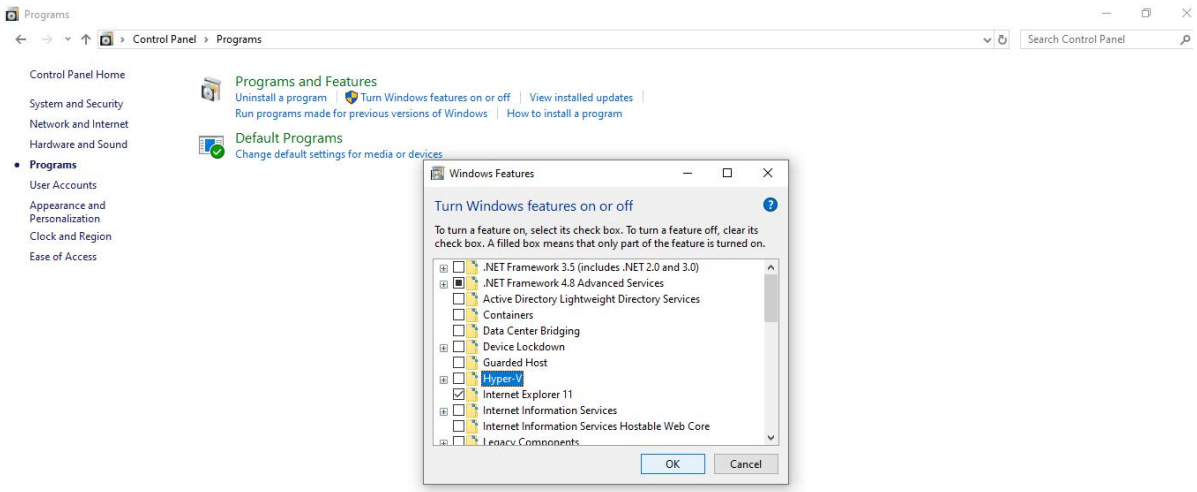
Creating new Virtual Machine:

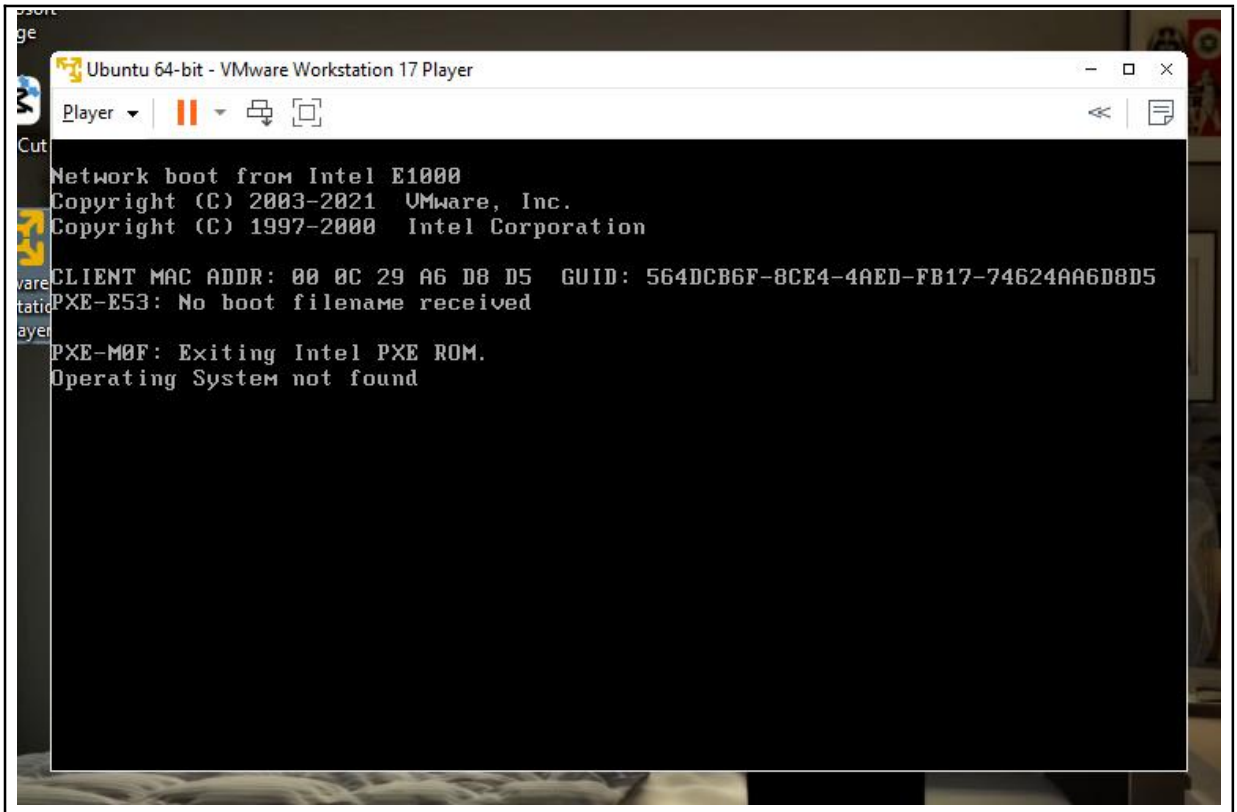
After installing the Ubuntu server, I opened VMware Workstation Player and selected the option “Create New Virtual Machine”. Then I gave the required information. Here I gave 30GB for disk size and 3 GB RAM for Virtual Machine.



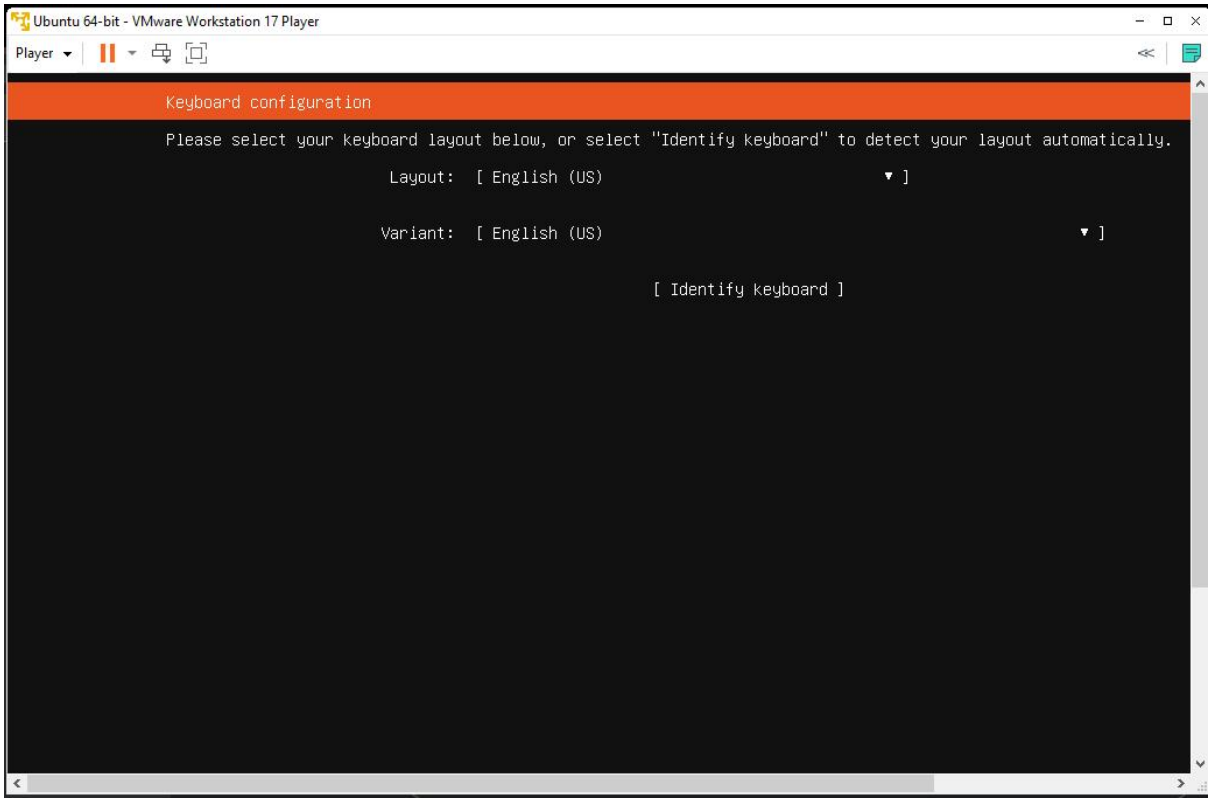


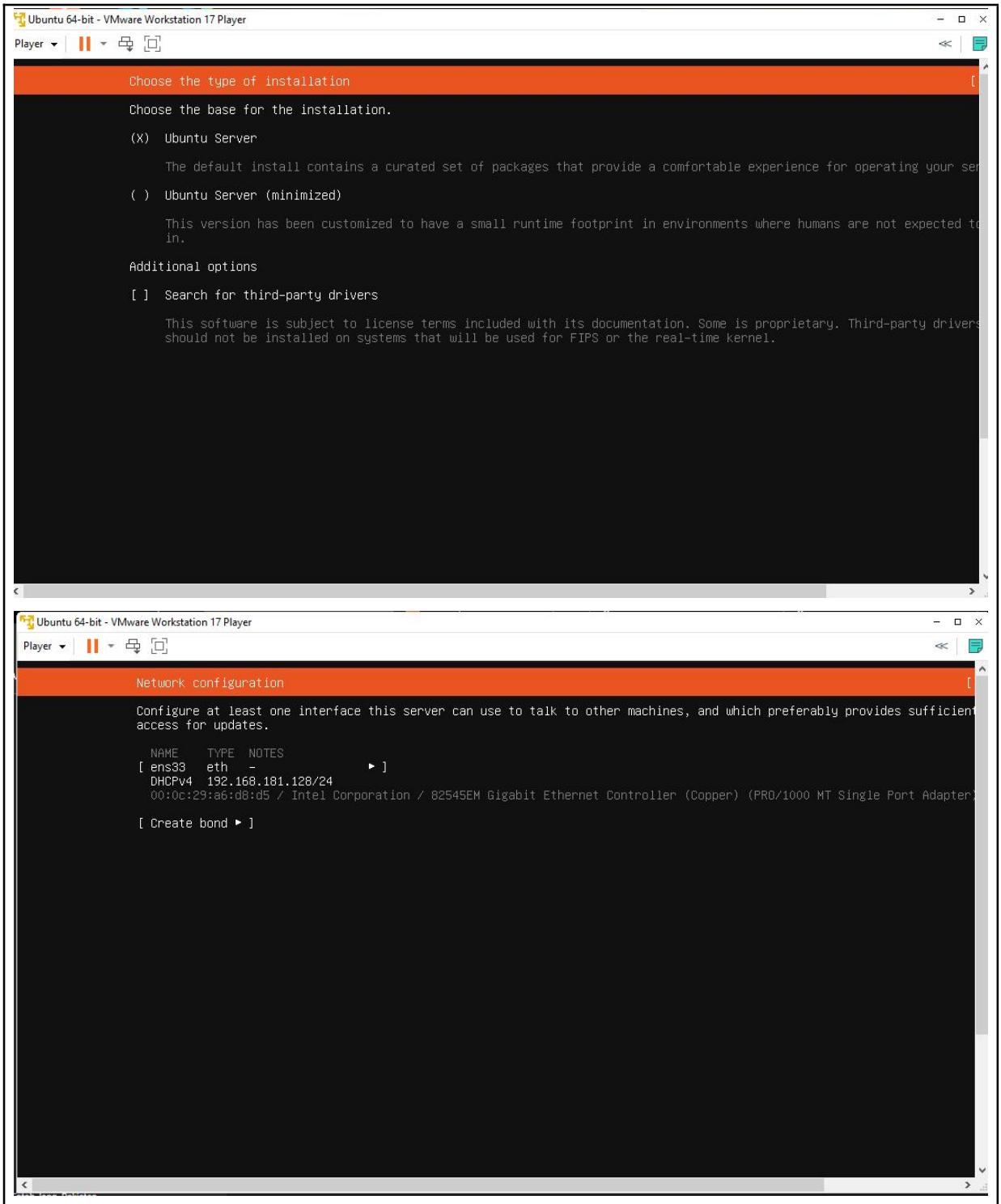
Problem: It was giving me permission issues. Then I turned Hyper-V off for my PC. Here is how I solved permission problem:

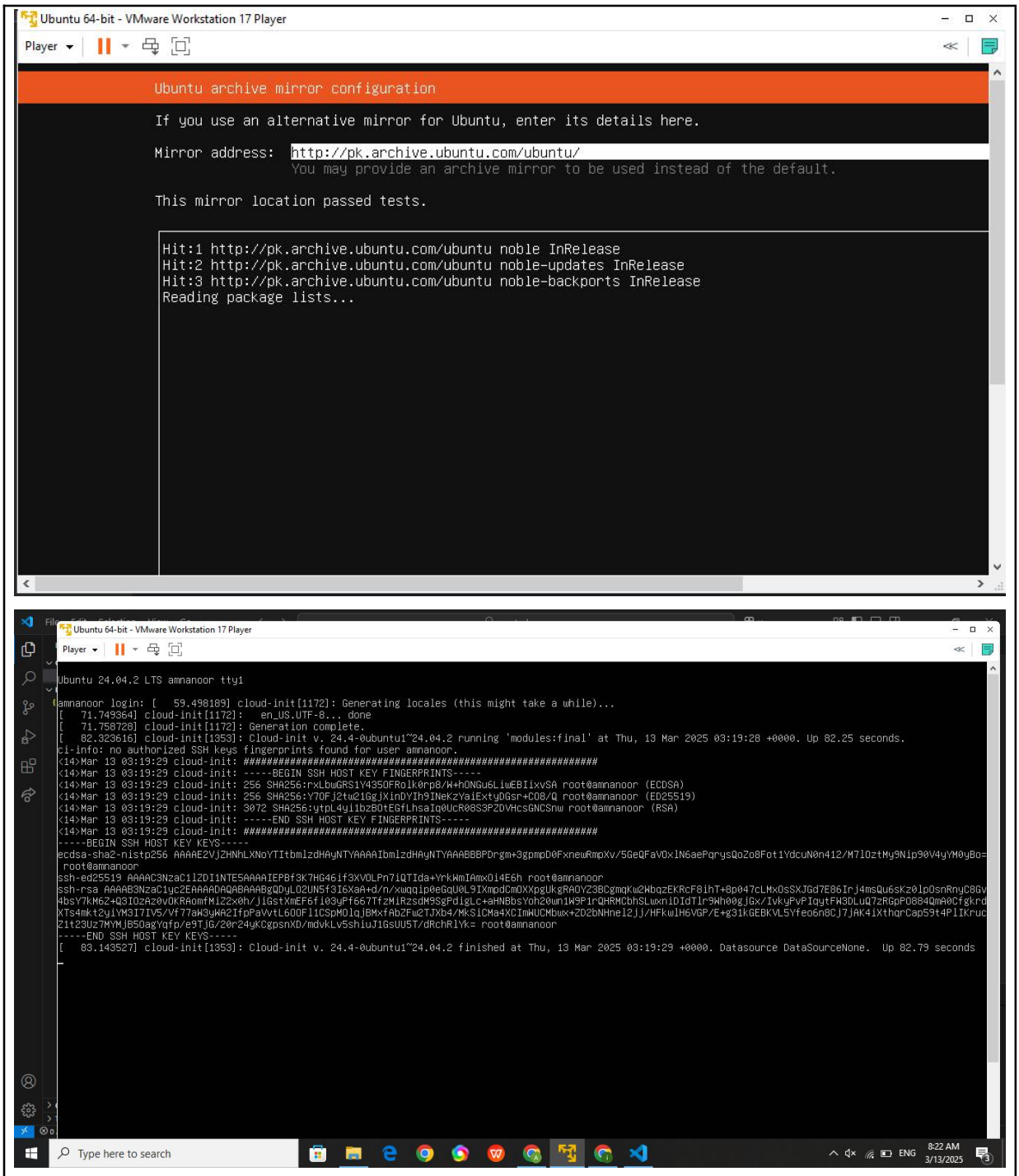




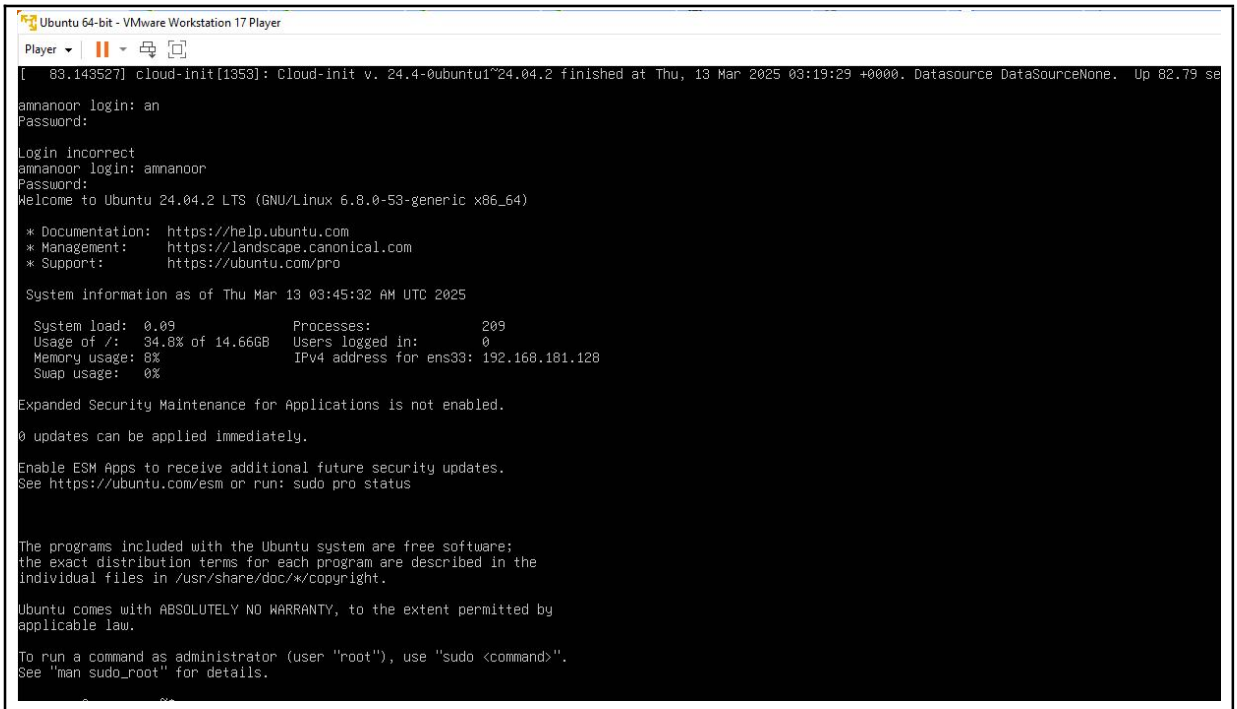
After that, I set my server's settings:




Ubuntu 64-bit - VMware Workstation 17 Player
Player
Choose the type of installation
Choose the base for the installation.
(X) Ubuntu Server
The default install contains a curated set of packages that provide a comfortable experience for operating your ser
( ) Ubuntu Server (minimized)
This version has been customized to have a small runtime footprint in environments where humans are not expected t
in.
Additional options
[ ] Search for third-party drivers
This software is subject to license terms included with its documentation. Some is proprietary. Third-party drivers
should not be installed on systems that will be used for FIPS or the real-time kernel.
Ubuntu 64-bit - VMware Workstation 17 Player
Player
Network configuration
Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient
access for updates.
NAME TYPE NOTES
[ens33 eth - ▸]
DHCPv4 192.168.181.128/24
00:0c:29:a6:d8:d5 / Intel Corporation / 82545EM Gigabit Ethernet Controller (Copper) (PRO/1000 MT Single Port Adapter)
[Create bond ▸]


Ubuntu 64-bit - VMware Workstation 17 Player
Player
Ubuntu archive mirror configuration
If you use an alternative mirror for Ubuntu, enter its details here.
Mirror address: http://pk.archive.ubuntu.com/ubuntu/
You may provide an archive mirror to be used instead of the default.
This mirror location passed tests.
Hit:1 http://pk.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://pk.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://pk.archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists...

Ubuntu 64-bit - VMware Workstation 17 Player
Player
Ubuntu 24.04.2 LTS amnanoor tty1
amnanoor login: [59.498189] cloud-init[1172]: Generating locales (this might take a while)...
[71.749364] cloud-init[1172]: en_US.UTF-8... done
[71.758728] cloud-init[1172]: Generation complete.
[82.323616] cloud-init[1353]: Cloud-init v. 24.4-0ubuntu1~24.04.2 running 'modules:final' at Thu, 13 Mar 2025 03:19:28 +0000. Up 82.25 seconds.
ci-info: no authorized SSH keys fingerprints found for user amnanoor.
<14>Mar 13 03:19:29 cloud-init: ###
<14>Mar 13 03:19:29 cloud-init: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>Mar 13 03:19:29 cloud-init: 256 SHA256:rxLbuGRS1Y435OFRolk0rp8/WwhONGu6LiuEBIixvSA root@amnanoor (ECDSA)
<14>Mar 13 03:19:29 cloud-init: 256 SHA256:Y7OFj2tw2lGgjXinDYIh9INeKzYaiExtyDGsr+CO8/Q root@amnanoor (ED25519)
<14>Mar 13 03:19:29 cloud-init: 3072 SHA256:ytpL4yi1bzBOtEGfLhsaIq0UcR08S3P2DVHcsGNCSnw root@amnanoor (RSA)
<14>Mar 13 03:19:29 cloud-init: -----END SSH HOST KEY FINGERPRINTS-----
<14>Mar 13 03:19:29 cloud-init: ###
-----BEGIN SSH HOST KEY KEYS-----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBPDrgm+3gpmpD0FxneuRmpXv/5GeQFaVOxlN6aePqrysQoZo8Fot1YdcuN0n412/M7lOztMy9Nip90V4yYM0yBo=
root@amnanoor
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIEPBf3K7HG46if3XVOLPn7iQTIda+YrkWmIAmxOi4E6h root@amnanoor
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDyLO2UN5f3I6XaA+d/n/xuqqip0eGqU0L9IXmpdCmOXXpgUkgRAOY23BCgmqKw2WbqzEKRcF8ihT+8p047cLMxOsSXJGd7E86Irj4msQu6sKz0lpOsnRnyC8Gv
4bsY7kM6Z+QJIOzAz0vOKRAomfM122x0h/jlGstXmEF6fi03yPf667TfzMlRzsdM9SgPdigLc+aHNBbsYoh20un1W9P1rQHRMCbhSLuxnlDIdTlr9Wh00gJGx/IvkyPvPIqytFW3DLuQ7zRGpPO884QmA0CfgkrdXTs4mkt2yiYM3I7IV5/Vf77aW3yWA2IfpPaVvtL6ODFl1CSpMOlqJBMxfAbZFw2TJXb4/MkSiCMa4XCImWUCMbwx+ZD2bNHnel2jj/HFkwlH6VGP/E+g31kGEBKVL5Yfeo6n8CJ7jAK41XthqrCap59t4PlIKrucZ1t23Uz7MYMjB5OagYqfp/e9TjG/20r24yKCgpsnXD/mdVkLv5shiuJ1GsUU5T/dRchRlYk= root@amnanoor
-----END SSH HOST KEY KEYS-----
[83.143527] cloud-init[1353]: Cloud-init v. 24.4-0ubuntu1~24.04.2 finished at Thu, 13 Mar 2025 03:19:29 +0000. Datasource DataSourceNone. Up 82.79 seconds
Type here to search
ENG
8:22 AM
3/13/2025

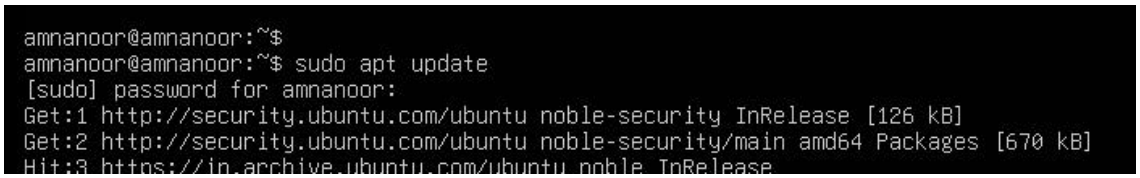


Odoo Installation:

After the above processes, I actually started Odoo Installation. Steps and their screenshots are given below:

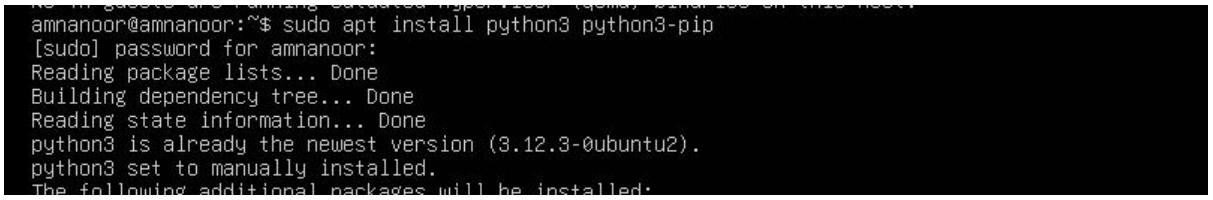
1. Update System Packages

sudo apt update && sudo apt upgrade -y



2. Install Required Dependencies

sudo apt install python3 python3-pip python3-venv python3-dev \



sudo apt install postgresql

```
No VM guests are running outdated hypervisor (qemu) binaries on
amnanoor@amnanoor:~$ sudo apt install postgresql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libcommon-sense-perl libjson-perl libjson-xs-perl libllvm17t6
  postgresql-common ssl-cert
Suggested packages:
```

sudo apt install git wget nodejs npm -y

```
 amnanoor @ session #4: login[1149]
 amnanoor @ user manager service: systemd[1508]

No VM guests are running outdated hypervisor (qemu) binaries on this host.
amnanoor@amnanoor:~$ sudo apt install git wget nodejs npm -y
```

sudo apt install python3-dev python3-venv python3-wheel -y

```
amnanoor@amnanoor:~$ sudo apt install python3-dev python3-venv python3-wheel -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-dev is already the newest version (3.12.3-0ubuntu2).
python3-wheel is already the newest version (0.42.0-2).
python3-wheel set to manually installed.
The following additional packages will be installed:
  python3-pip-whl python3-setuptools-whl python3.12-venv
The following NEW packages will be installed:
  python3-pip-whl python3-setuptools-whl python3-venv python3.12-venv
0 upgraded, 4 newly installed, 0 to remove and 5 not upgraded.
Need to get 2,425 kB of archives.
After this operation, 2,777 kB of additional disk space will be used.
Get:1 https://in.archive.ubuntu.com/ubuntu noble-updates/universe amd64 python3-pip-whl a
40% [1 python3-pip-whl 1,208 kB/1,703 kB 71%]
```

sudo apt install libldap2-dev libsasl2-dev libxslt1-dev libjpeg-dev libpq-dev -y

```
amnanoor@amnanoor:~$ sudo apt install libldap2-dev libsasl2-dev libxslt1-dev libjpeg-dev libpq-dev -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  icu-devtools libicu-dev libjpeg-turbo8-dev libjpeg8-dev libldap-dev libxml2-dev
Suggested packages:
  icu-doc postgresql-doc-16 pkg-config
The following NEW packages will be installed:
  icu-devtools libicu-dev libjpeg-dev libjpeg-turbo8-dev libjpeg8-dev libldap-dev libldap2-dev libpq-dev
0 upgraded, 11 newly installed, 0 to remove and 5 not upgraded.
Need to get 14.0 MB of archives.
After this operation, 58.2 MB of additional disk space will be used.
Get:1 https://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 icu-devtools amd64 74.2-1ubuntu3.1 [
0% [1 icu-devtools 7,900 B/212 kB 4%]
```

sudo apt install postgresql -y

sudo systemctl enable --now postgresql

```
No VM guests are running outdated hypervisor (qemu) binaries on
amnanoor@amnanoor:~$ sudo apt install postgresql -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
postgresql is already the newest version (16+257build1.1).
0 upgraded, 0 newly installed, 0 to remove and 5 not upgraded.
amnanoor@amnanoor:~$ sudo systemctl enable --now postgresql
```

3. Create PostgreSQL User for Odoo

sudo -u postgres createuser -s odoo

```
Synchronizing state of postgresql.service with SysV service script with /usr/lib/syst
Executing: /usr/lib/systemd/systemd-sysv-install enable postgresql
amnanoor@amnanoor:~$ sudo -u postgres createuser -s odoo
amnanoor@amnanoor:~$ sudo useradd -m -d /opt/odoo -U -r -s /bin/bash odoo
```

4. Download & Setup Odoo Source Code

git clone https://www.github.com/odoo/odoo --depth=1 --branch 16.0

Above command didn't work. So, I manually downloaded the zip file and moved it to the required directory.

cd /opt/

sudo unzip odoo-16.0.zip

sudo mv /opt/odoo-16.0 /opt/odoo

```
       valid_lft forever preferred_lft forever
amnanoor@amnanoor:/$ sudo mv ~/odoo-16.0.zip /opt/
amnanoor@amnanoor:/$ cd /opt/
amnanoor@amnanoor:/opt$ sudo unzip odoo-16.0.zip
sudo: unzip: command not found
amnanoor@amnanoor:/opt$ sudo apt install unzip -y
```

Type here to search

```
amnanoor@amnanoor:/opt$ sudo mv /opt/odoo-16.0 /opt/odoo
amnanoor@amnanoor:/opt$ sudo /opt/odoo
sudo: /opt/odoo: command not found
amnanoor@amnanoor:/opt$ sudo cd /opt/odoo
sudo: cd: command not found
```

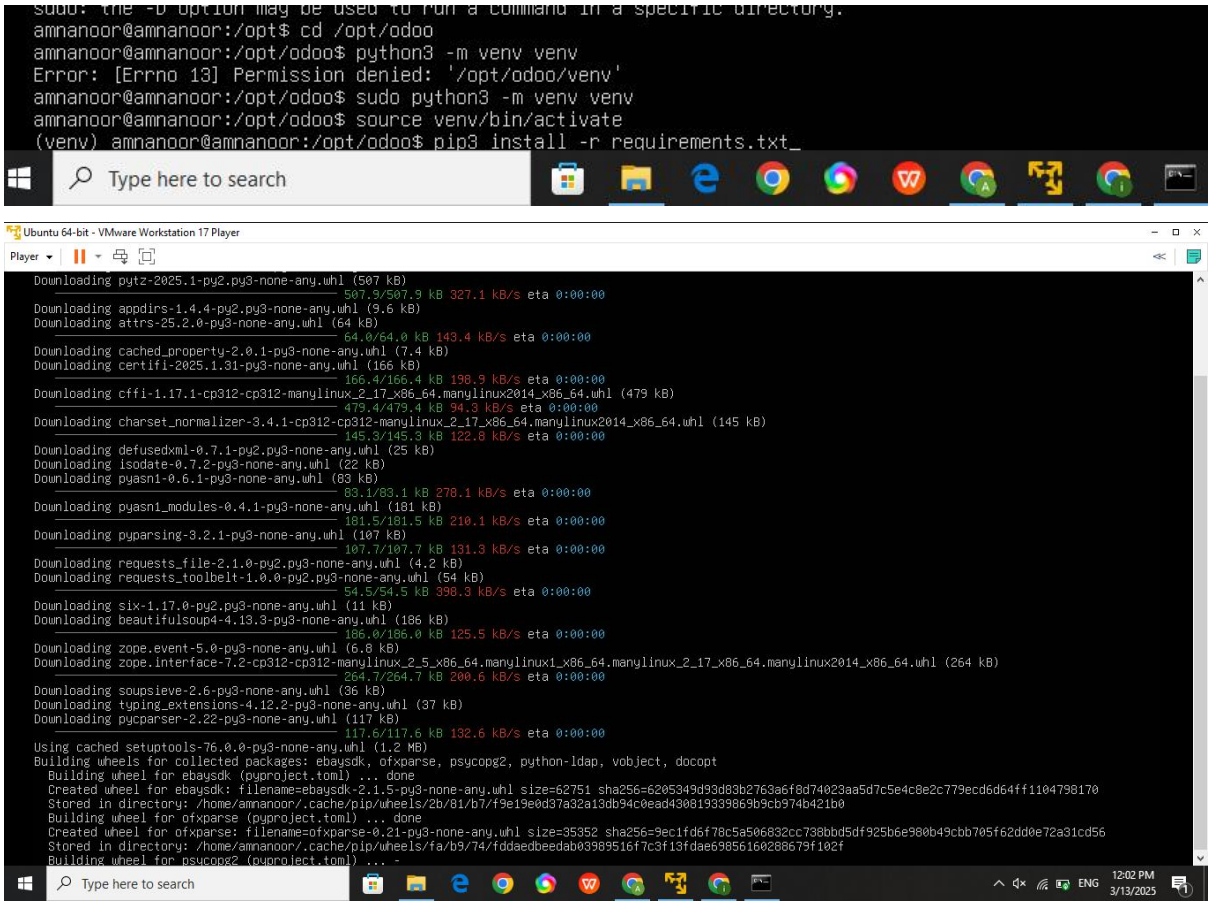
5. Create a Virtual Environment & Install Dependencies

cd /opt/odoo

python3 -m venv venv

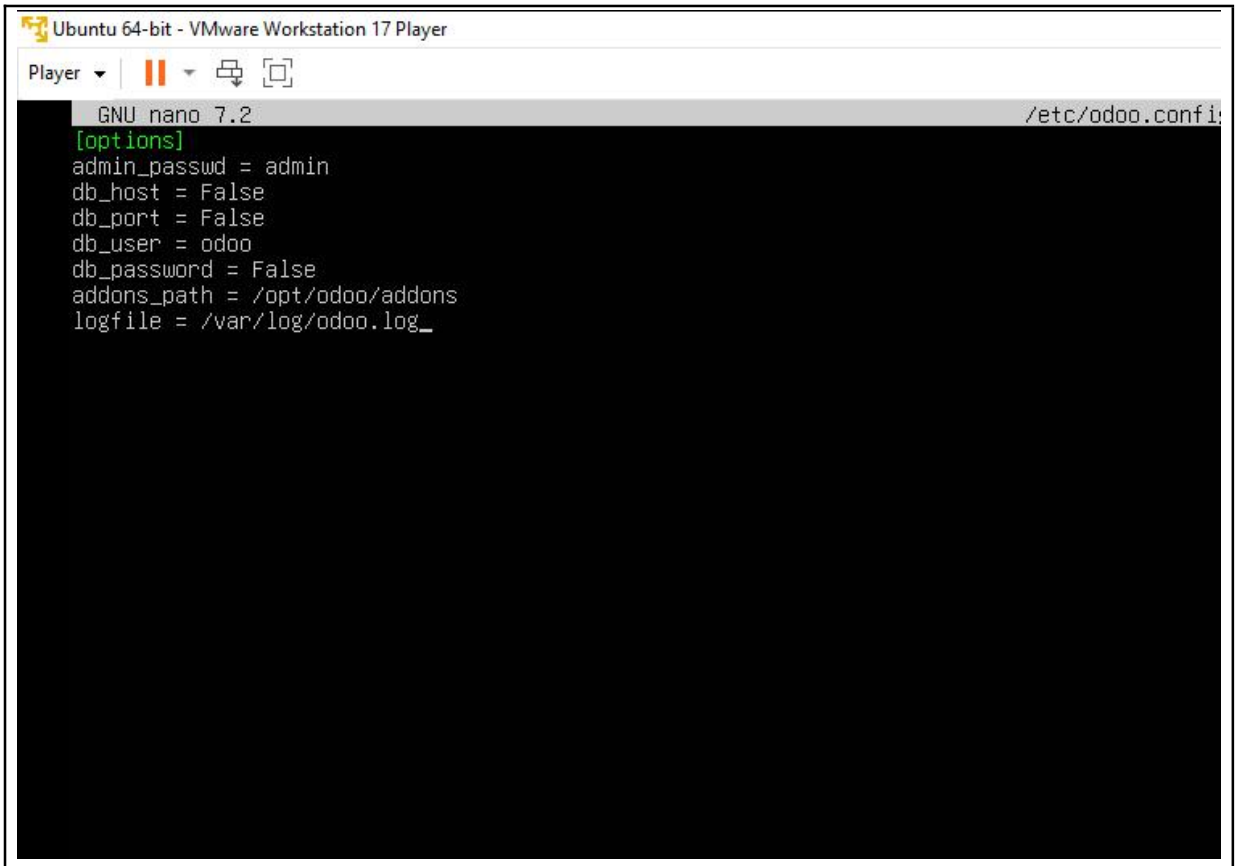
source venv/bin/activate

pip3 install -r requirements.txt



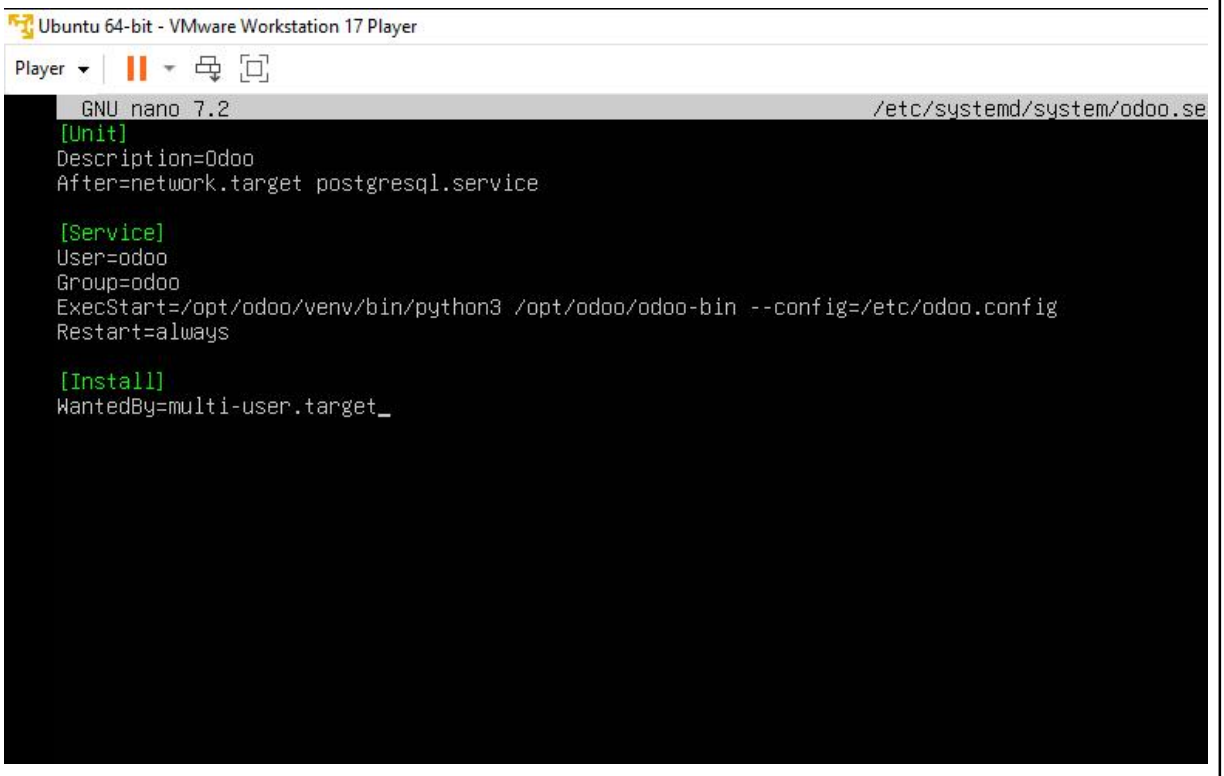
6. Create Odoo Configuration File

sudo nano /etc/odoo.conf



7. Set Up a Systemd Service for Odoo

sudo nano /etc/systemd/system/odoo.service



8. Start and Enable Odoo Service

sudo systemctl daemon-reload

sudo systemctl enable odoo

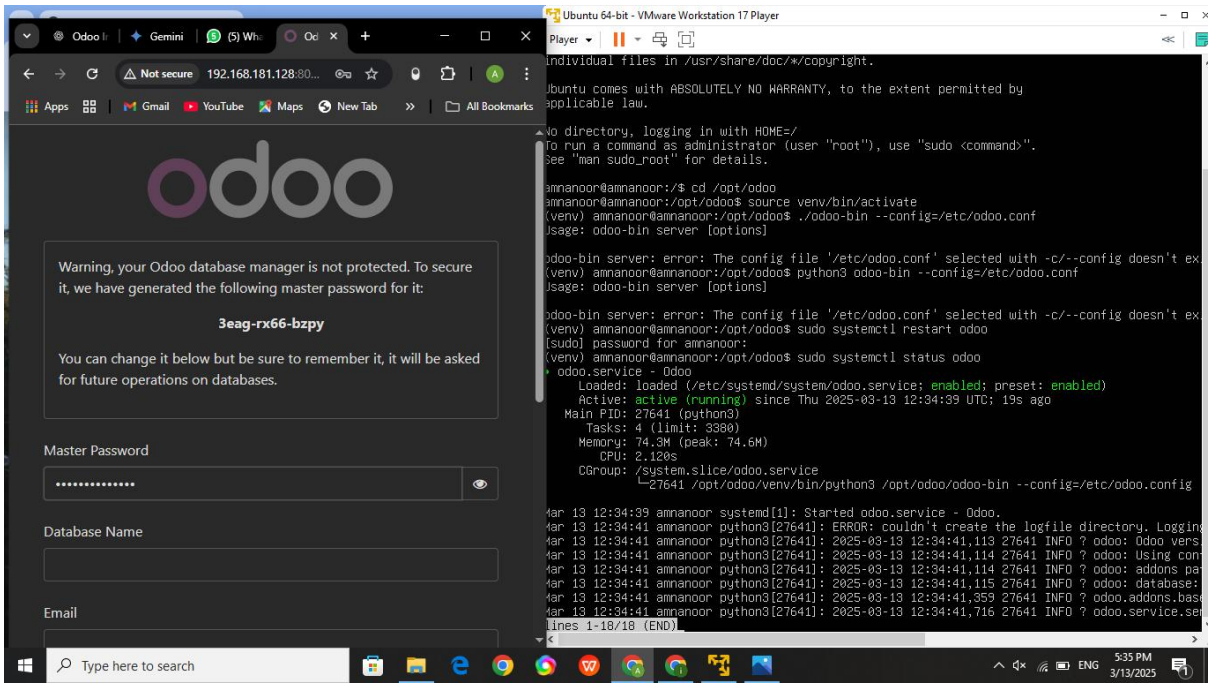
sudo systemctl start odoo

sudo systemctl status odoo

```
(venv) amnanoor@amnanoor:/opt/odoo$ sudo systemctl daemon-reload
(venv) amnanoor@amnanoor:/opt/odoo$ sudo systemctl start odoo
(venv) amnanoor@amnanoor:/opt/odoo$ sudo systemctl enable odoo
Created symlink /etc/systemd/system/multi-user.target.wants/odoo.service → /etc/systemd/system/odoo.service.
(venv) amnanoor@amnanoor:/opt/odoo$ sudo systemctl status odoo
● odoo.service - Odoo
     Loaded: loaded (/etc/systemd/system/odoo.service; enabled; preset: enabled)
     Active: active (running) since Thu 2025-03-13 07:26:26 UTC; 4min 28s ago
   Main PID: 24591 (python3)
```

9. Odoo on Browser

- Open **http://192.168.181.128:8069** in your browser.



Troubleshooting Errors

1. "Permission Denied"

Fix: Grant permissions to the Odoo directory

sudo chown -R odoo:odoo /opt/odoo

sudo chmod -R 755 /opt/odoo

```
Mar 13 07:35:55 amnanoor python3[24702]:   File "<frozen os>", line 225, in makedirs
Mar 13 07:35:55 amnanoor python3[24702]: PermissionError: [Errno 13] Permission denied: '/opt/odoo/.local'
Mar 13 07:35:55 amnanoor python3[24702]: 2025-03-13 07:35:55,650 24702 INFO ? werkzeug: 192.168.181.1 - - [13/Mar/202
 - 0 0.000 0.004
(venv) amnanoor@amnanoor:/opt/odoo$ sudo chown -R odoo:odoo /opt/odoo
(venv) amnanoor@amnanoor:/opt/odoo$ sudo chmod -R 775 /opt/odoo
(venv) amnanoor@amnanoor:/opt/odoo$
```

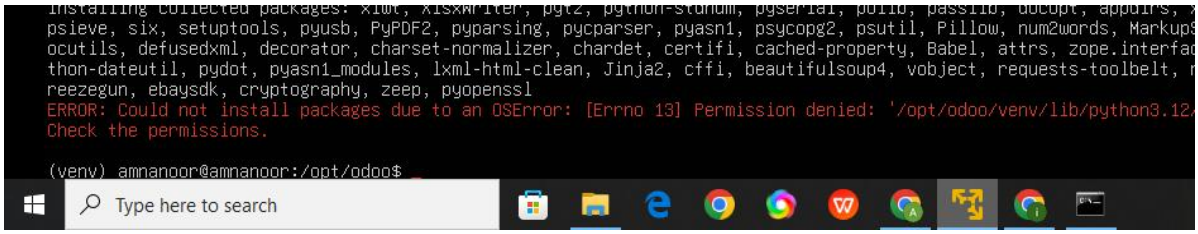
Then restart Odoo:

sudo systemctl restart odoo

2. Error (while installing requirements.txt):

```
Installing collected packages: xlwt, xlsxwriter, pytz, python-stdnum, pyserial, polib, passlib, docopt, appdirs, x
psieve, six, setuptools, pyusb, PyPDF2, pyparsing, pycparser, pyasn1, psycopg2, psutil, Pillow, num2words, Markup$
ocutils, defusedxml, decorator, charset-normalizer, chardet, certifi, cached-property, Babel, attrs, zope.interfac
thon-dateutil, pydot, pyasn1_modules, lxml-html-clean, Jinja2, cffi, beautifulsoup4, vobject, requests-toolbelt, r
reezegun, ebaysdk, cryptography, zeep, pyopenssl
ERROR: Could not install packages due to an OSError: [Errno 13] Permission denied: '/opt/odoo/venv/lib/python3.12/
Check the permissions.

(venv) amnanoor@amnanoor:/opt/odoo$
```



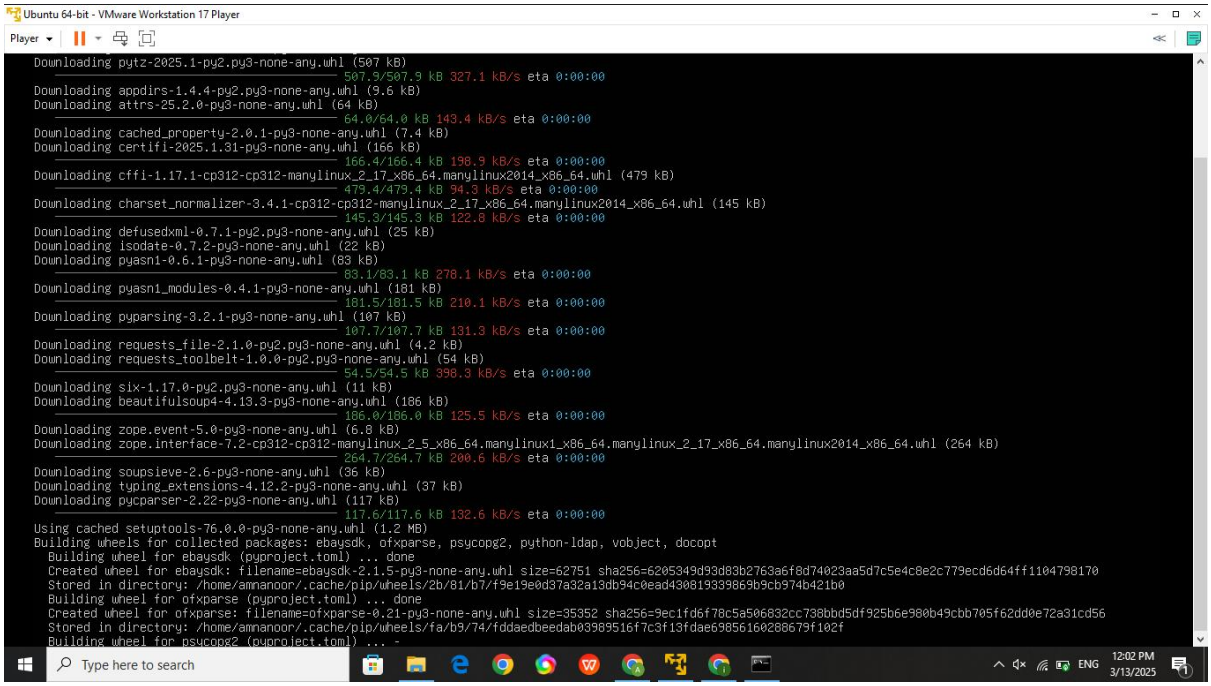
Solution:

Grant permissions:

sudo chown -R amnanoor:amnanoor /opt/odoo/venv

source venv/bin/activate

pip3 install -r requirements.txt



3. Error while cloning:

```
amnanoor@amnanoor:/opt$ sudo git clone --depth 1 --branch 16.0 https://www.github.com/odoo/odoo.git /opt/odoo
Cloning into '/opt/odoo'...
warning: redirecting to https://github.com/odoo/odoo.git/
remote: Enumerating objects: 42316, done.
remote: Counting objects: 100% (42316/42316), done.
remote: Compressing objects: 100% (30998/30998), done.
error: RPC failed; curl 92 HTTP/2 stream 5 was not closed cleanly: CANCEL (err 8)
error: 4300 bytes of body are still expected
fetch-pack: unexpected disconnect while reading sideband packet
fatal: early EOF
fatal: fetch-pack: invalid index-pack output
amnanoor@amnanoor:/opt$ sudo mv ~/Downloads/odoo-16.0.zip /opt/
mv: cannot stat '/home/amnanoor/Downloads/odoo-16.0.zip': No such file or directory
```

Fix:

Get your ip address of VMware

Shift downloaded zip file from you PC's host location in to home/root directory of VMware

```
amnanoor@amnanoor:/opt$ cd ..
amnanoor@amnanoor:/$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:a6:d8:d5 brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.181.128/24 metric 100 brd 192.168.181.255 scope global dynamic ens33
       valid_lft 1769sec preferred_lft 1769sec
    inet6 fe80::20c:29ff:fea6:d8d5/64 scope link
       valid_lft forever preferred_lft forever
amnanoor@amnanoor:/$ sudo mv ~/odoo-16.0.zip /opt/
amnanoor@amnanoor:/$ cd /opt/
amnanoor@amnanoor:/opt$ sudo unzip odoo-16.0.zip
```

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.18362.53]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Windows\system32>scp D:\Downloads\odoo-16.0.zip amnanoor@192.168.181.128:/opt/
The authenticity of host '192.168.181.128 (192.168.181.128)' can't be established.
ECDSA key fingerprint is SHA256:rxLbwGRS1Y435OFRolk0rp8/W+hONGu6LiwEBIixvSA.
Are you sure you want to continue connecting (yes/no)?
Please type 'yes' or 'no':
Warning: Permanently added '192.168.181.128' (ECDSA) to the list of known hosts.
amnanoor@192.168.181.128's password:
scp: /opt//odoo-16.0.zip: Permission denied

C:\Windows\system32>scp D:\Downloads\odoo-16.0.zip amnanoor@192.168.181.128:/home/amnanoor/
amnanoor@192.168.181.128's password:
odoo-16.0.zip                                                 100%  187MB   8.1MB/s   00:23

C:\Windows\system32>
```