Fatima Jinnah Women University
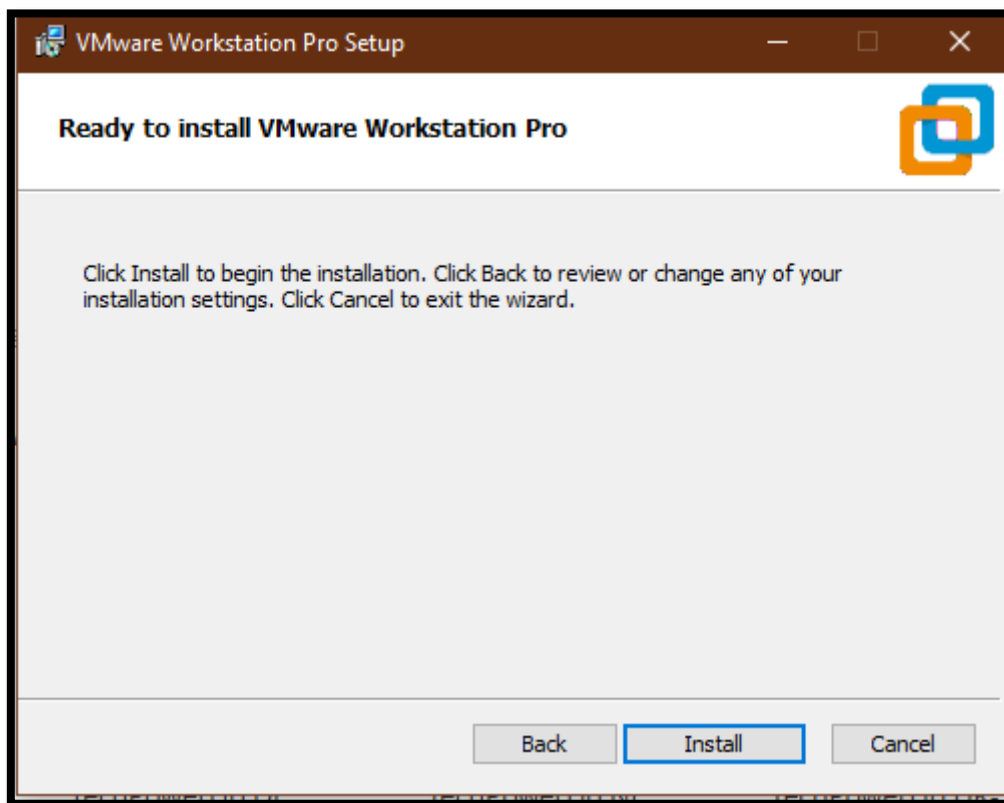
Cloud Computing Lab 1

Submitted to: Engr. Muhammad Shoaib
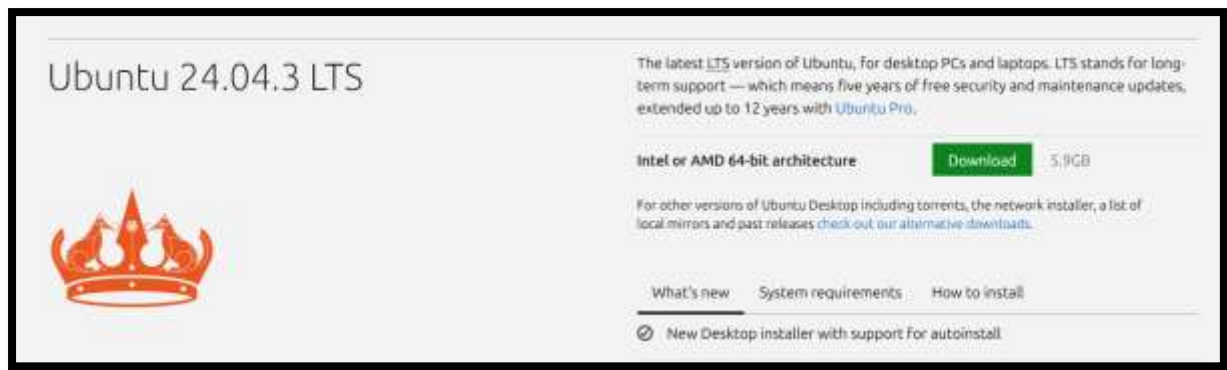
Submitted by: Anara Hayat

Reg#No: 2023-BSE-008

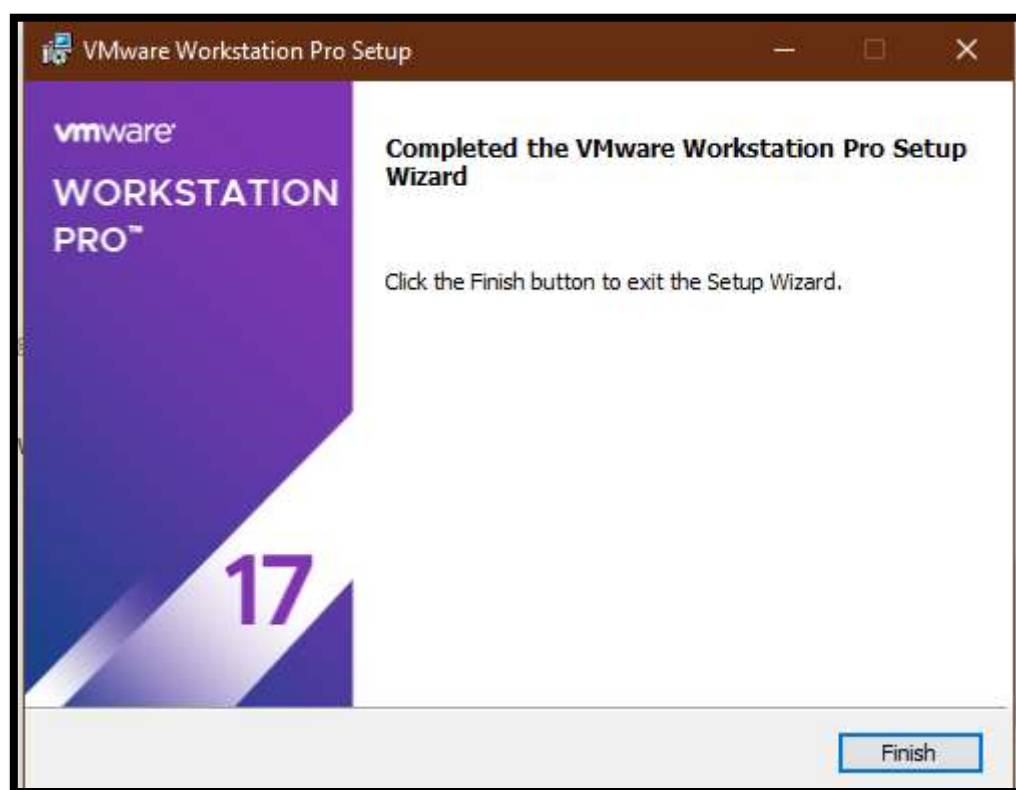**Lab Title: Installation of Linux Server**

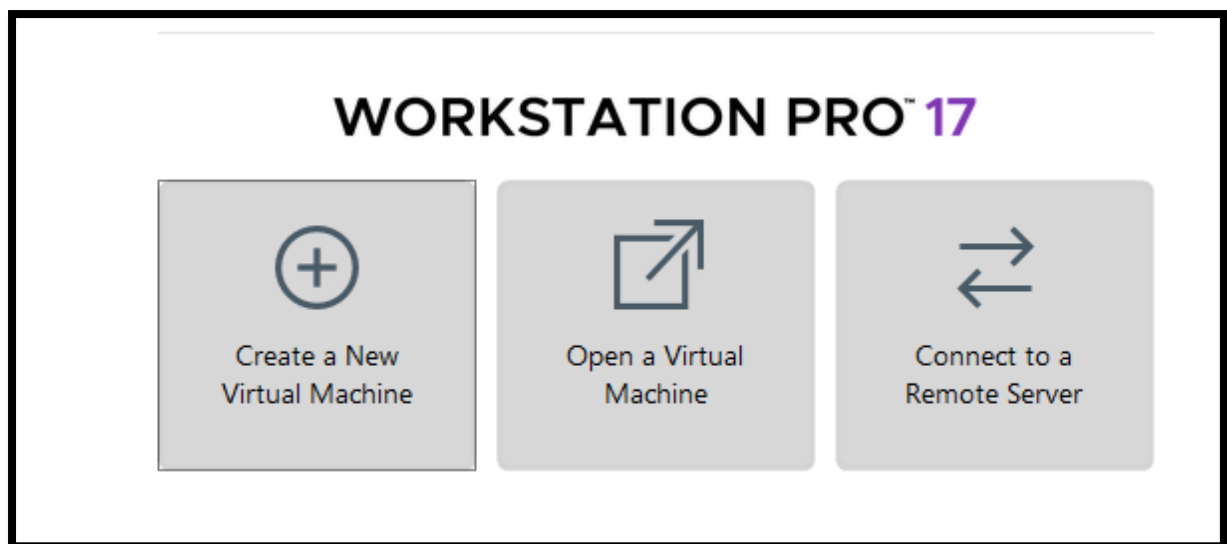## Install VMware Workstation Pro
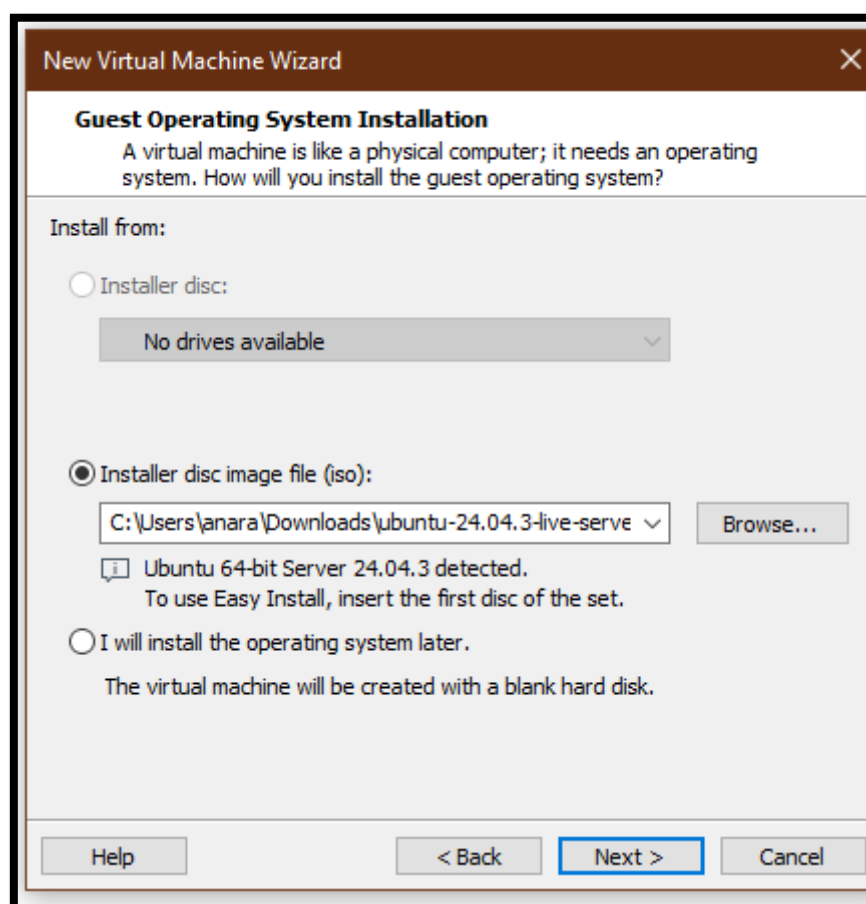

Download Ubuntu Server ISO

Open VMware Workstation Pro.

Create a new virtual machine in VMware

Choosing Installer disc image file (ISO) and browse to the Ubuntu Server ISO for installation

New Virtual Machine Wizard

Name the Virtual Machine
What name would you like to use for this virtual machine?

Virtual machine name:

Ubuntu 64-bit

Location:

D:\

Browse...

The default location can be changed at Edit > Preferences.

< Back   Next >   Cancel

New Virtual Machine Wizard

Specify Disk Capacity
How large do you want this disk to be?

The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.
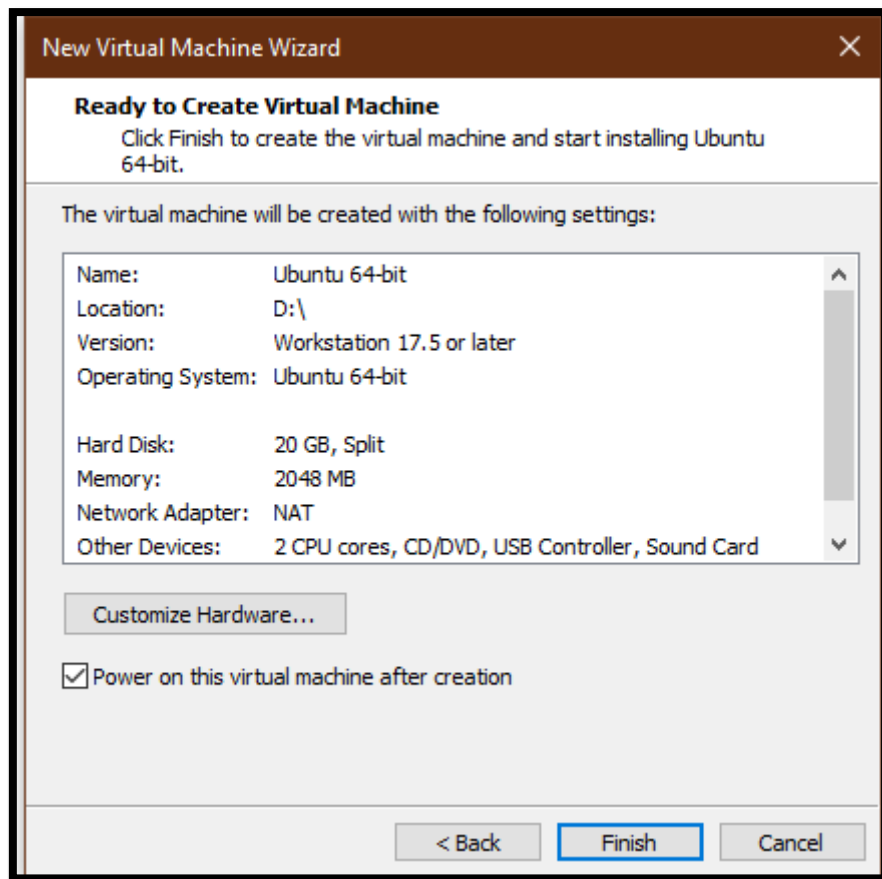
Maximum disk size (GB): 20.0

Recommended size for Ubuntu 64-bit: 20 GB
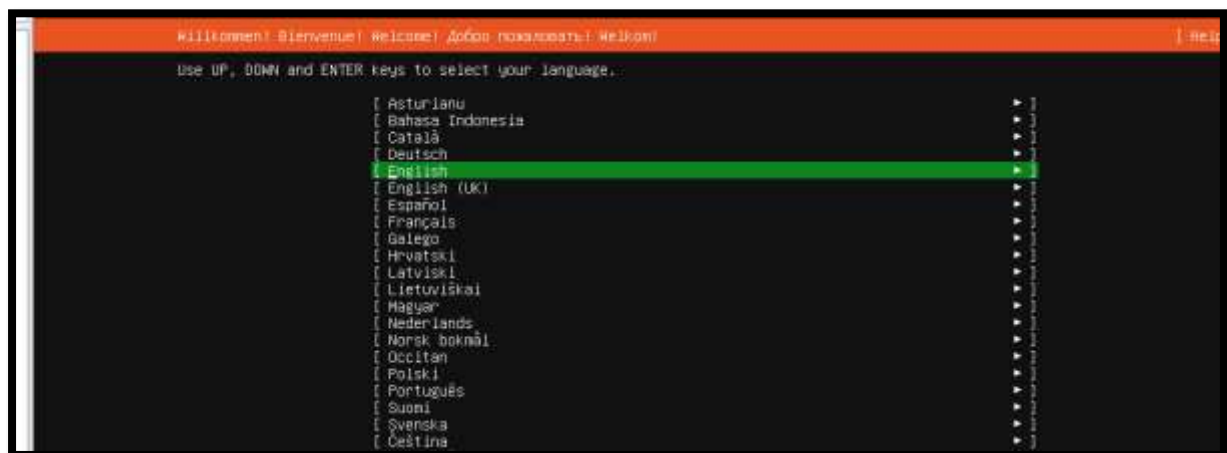
○ Store virtual disk as a single file
◉ Split virtual disk into multiple files
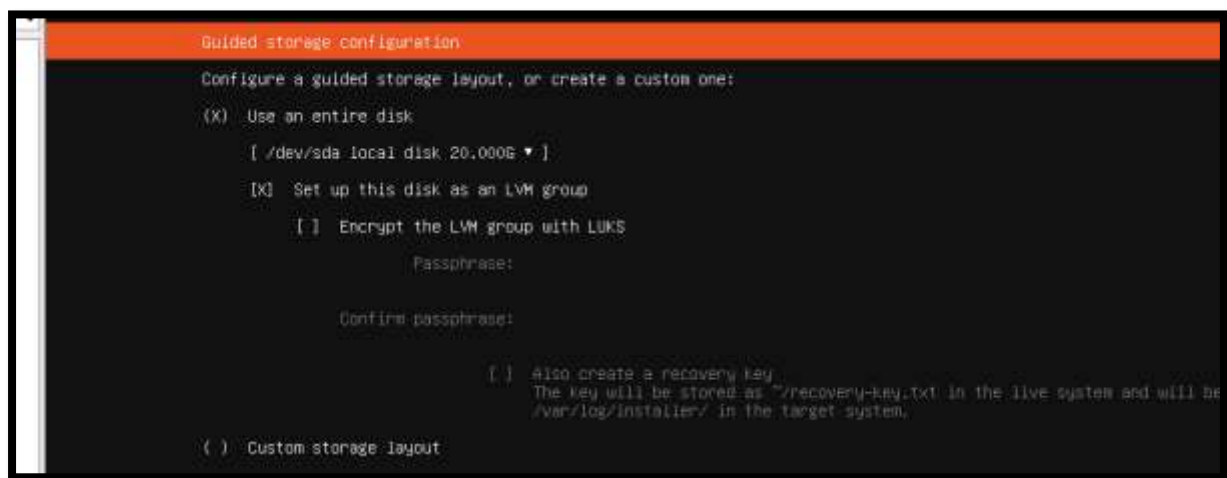
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

Help   < Back   Next >   Cancel

Started the virtual machine and choosing your language

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 server.

( ) Ubuntu Server (minimized)

     This version has been customized to have a small runtime footprint in environments where humans are not expected to log 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.

Guided storage configuration

Configure a guided storage layout, or create a custom one:

(X) Use an entire disk

     [/dev/sda local disk 20.000G ▼]

     [X] Set up this disk as an LVM group

          [ ] Encrypt the LVM group with LUKS

                    Passphrase:

                Confirm passphrase:

                         [ ] Also create a recovery key
                             The key will be stored as ~/recovery-key.txt in the live system and will be /var/log/installer/ in the target system.

( ) Custom storage layout

Setting up a Profile

Profile configuration   [Help]

Enter the username and password you will use to log in to the system. You can configure SSH access on a later screen, but a password is still needed for sudo.

          Your name: Anara

   Your servers name: ubunt64-bit
                      The name it uses when it talks to other computers.

     Pick a username: anara

   Choose a password: *********

Confirm your password: *********

Installing System

Logging in to the server after installation have been done


```
ubuntu login: anara
Password:
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.8.0-71-generic x86_64)

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

 System information as of Tue Aug  5 17:06:09 UTC 2025

  System load:    0.88      Processes:              29
  Usage of /home: unknown   Users logged in:        0
  Memory usage:   5%        IPv4 address for eth0: 10.10.10.2
  Swap usage:     0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status




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

Finding ip address


```
anara@ubuntu:~$ ip addr
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:ba:83:da brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.111.129/24 metric 100 brd 192.168.111.255 scope global dynamic ens33
       valid_lft 1710sec preferred_lft 1710sec
    inet6 fe80::20c:29ff:feba:83da/64 scope link
       valid_lft forever preferred_lft forever
anara@ubuntu:~$
```

Connected via SSH from Windows

```
C:\Users\anara> ssh anara@192.168.111.129
The authenticity of host '192.168.111.129 (192.168.111.129)' can't be established.
ED25519 key fingerprint is SHA256:qtQKrWqPkeXr3mH/xuBEU5qh73DvzRSPAP4v74hscC0.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '192.168.111.129' (ED25519) to the list of known hosts.
anara@192.168.111.129's password:
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.8.0-71-generic x86_64)

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

 System information as of Sat Sep 27 10:06:17 AM UTC 2025

  System load:  0.24              Processes:             249
  Usage of /:   44.8% of 9.75GB   Users logged in:       1
  Memory usage: 14%               IPv4 address for ens33: 192.168.111.129
  Swap usage:   0%
```

****