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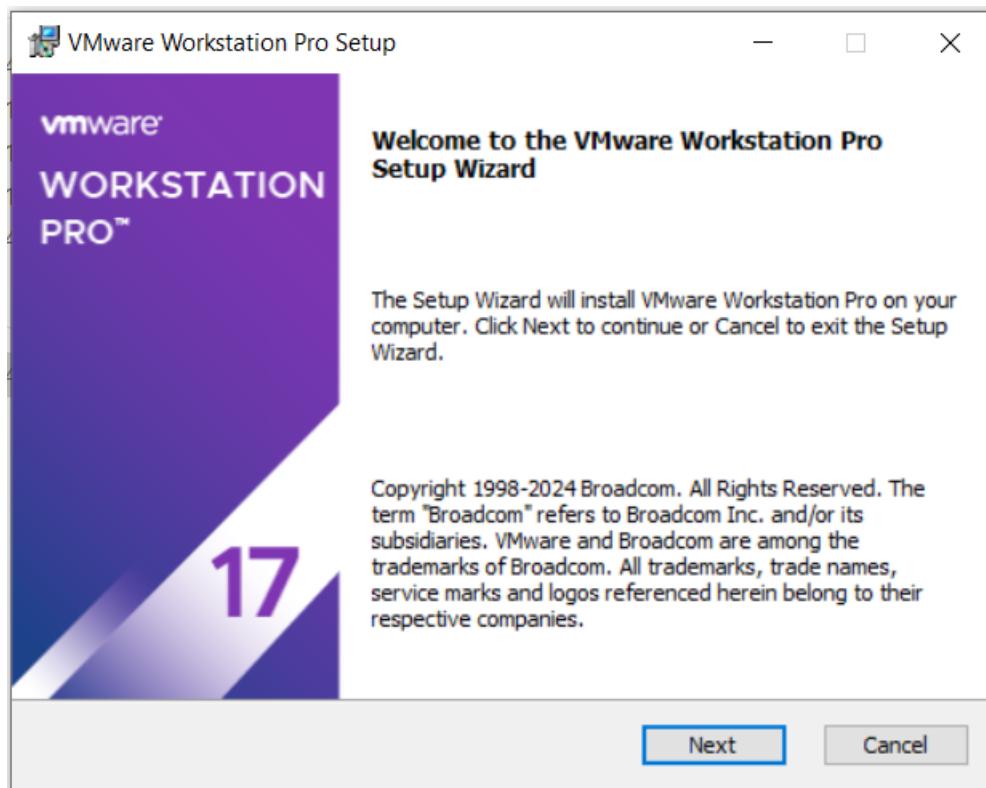
# ***LAB 01***

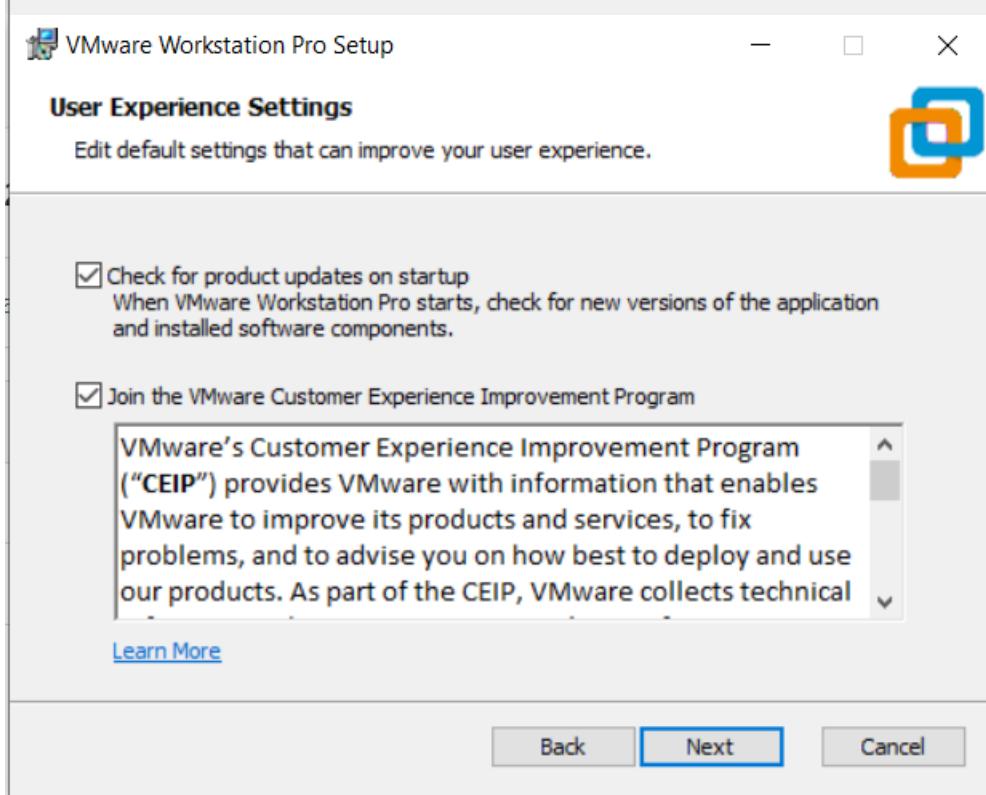
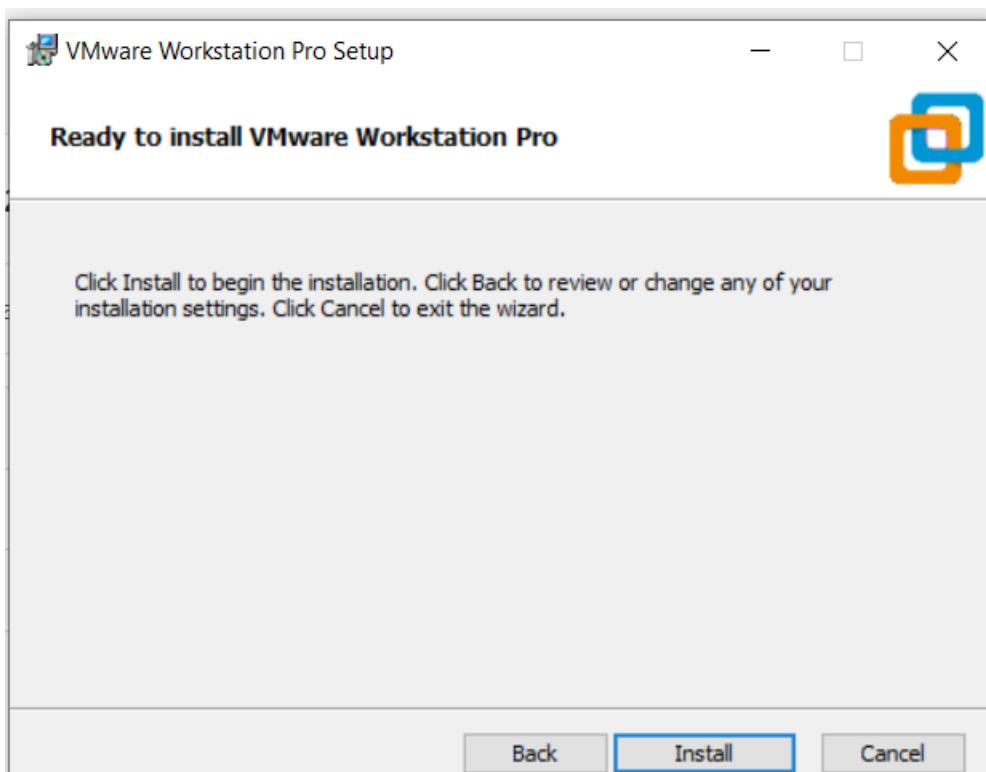
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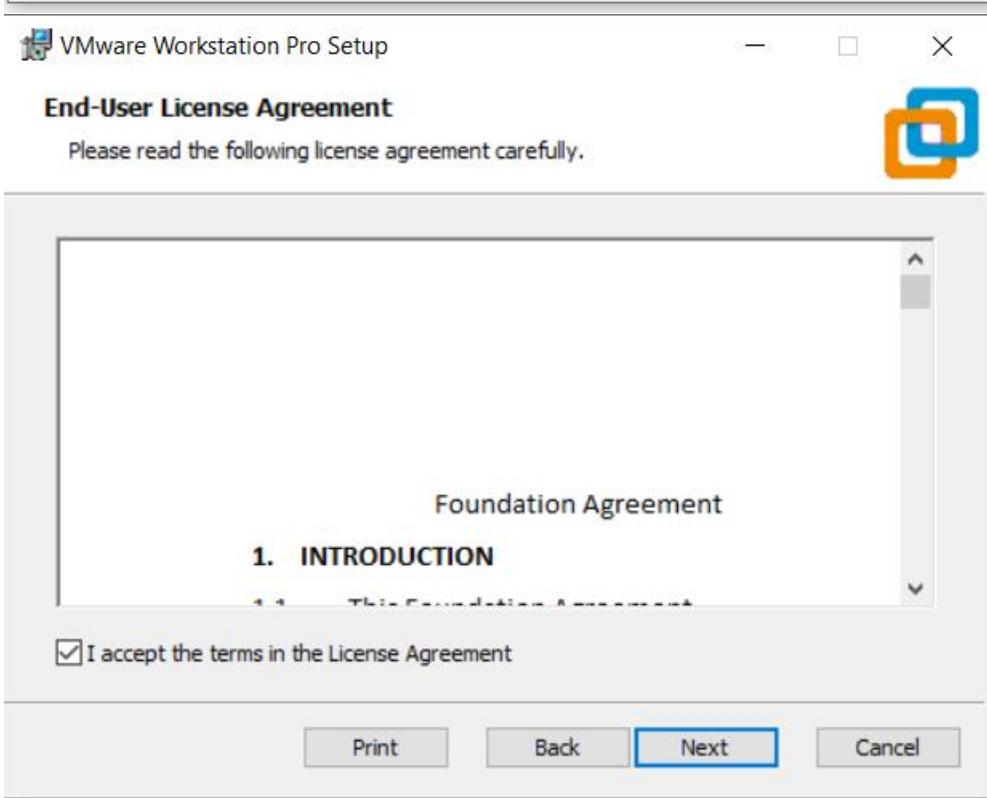
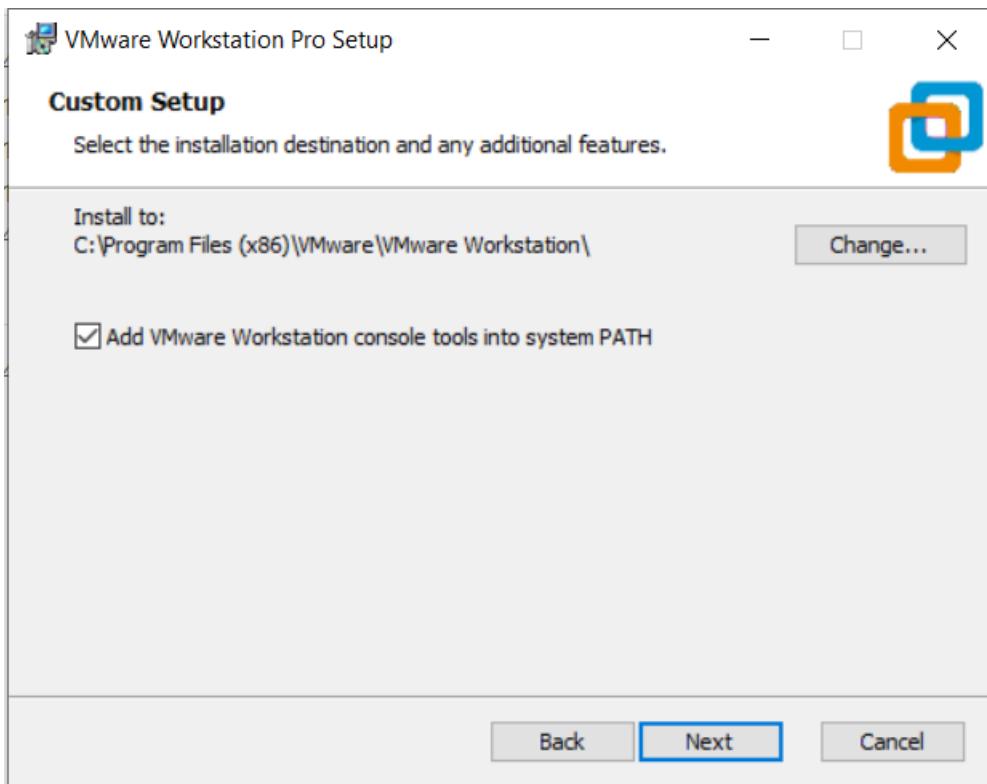
**NAME: SHUMAIL ZAHRA  
REGISTRATION #: 2023-BSE-061  
DEPARTMENT: BSE(5B)**

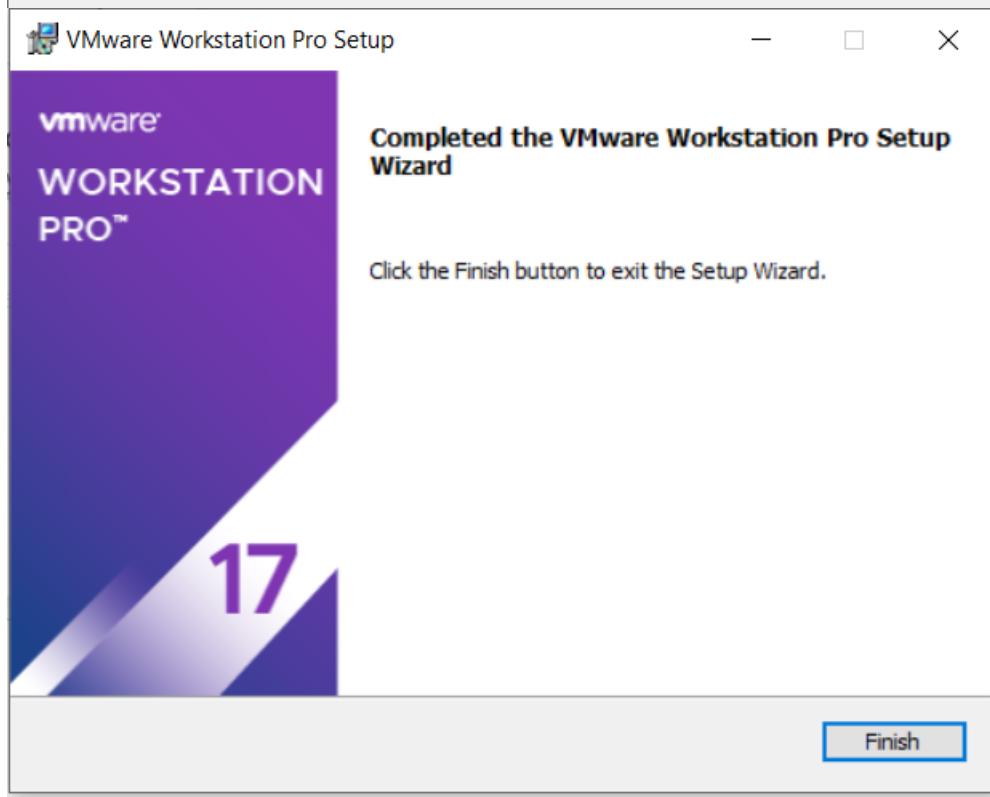
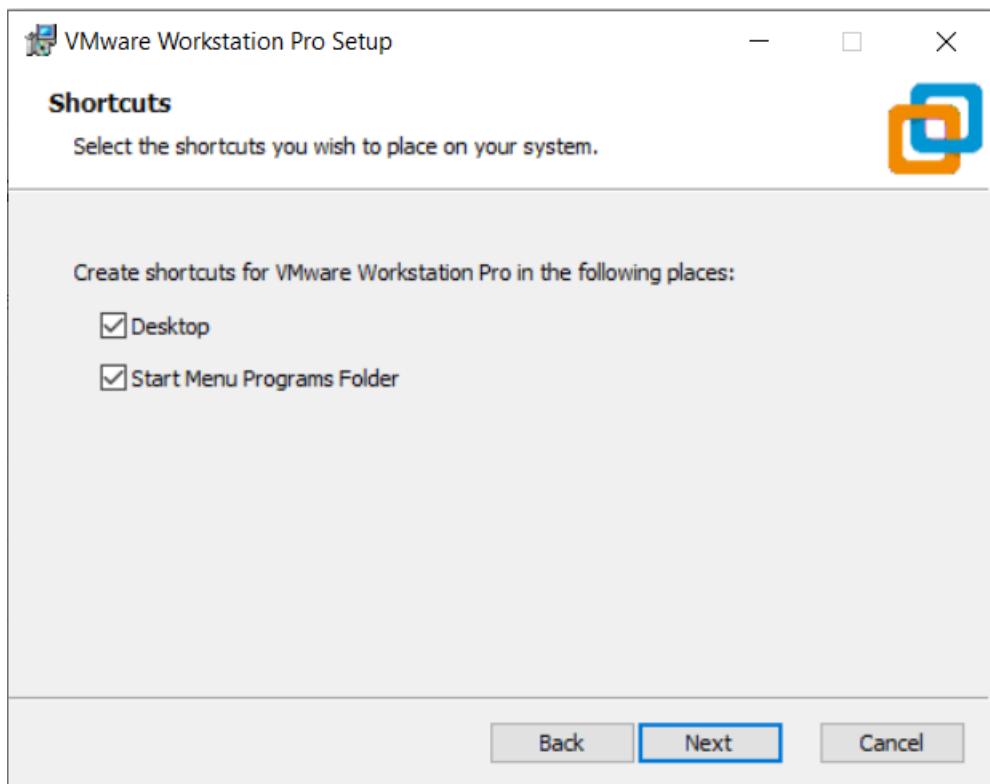
## **LAB TASK**

### **VMWare Installation:**

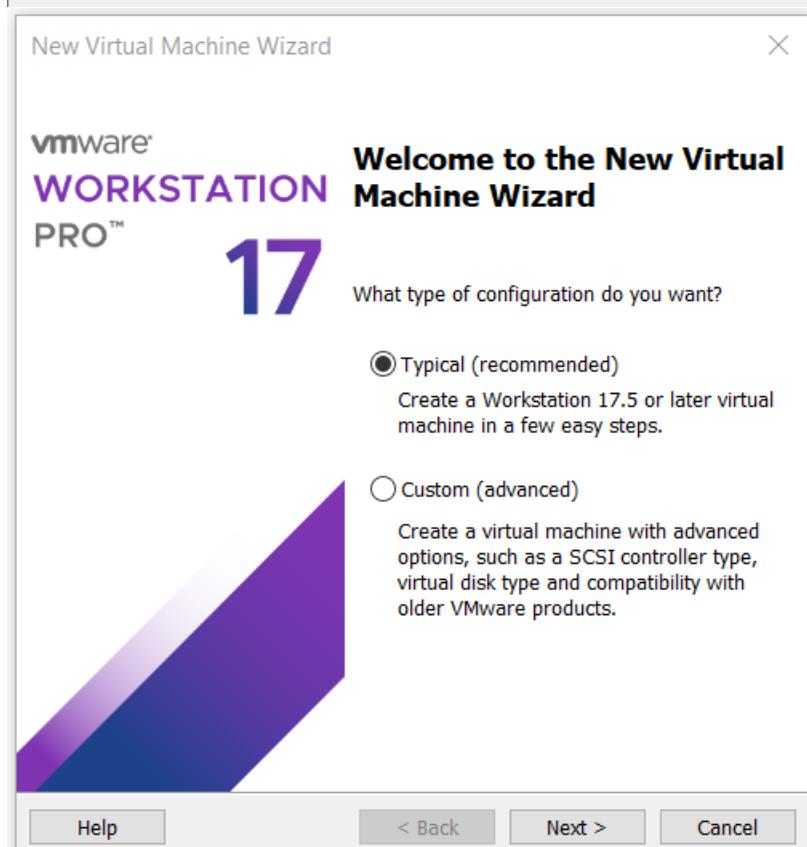
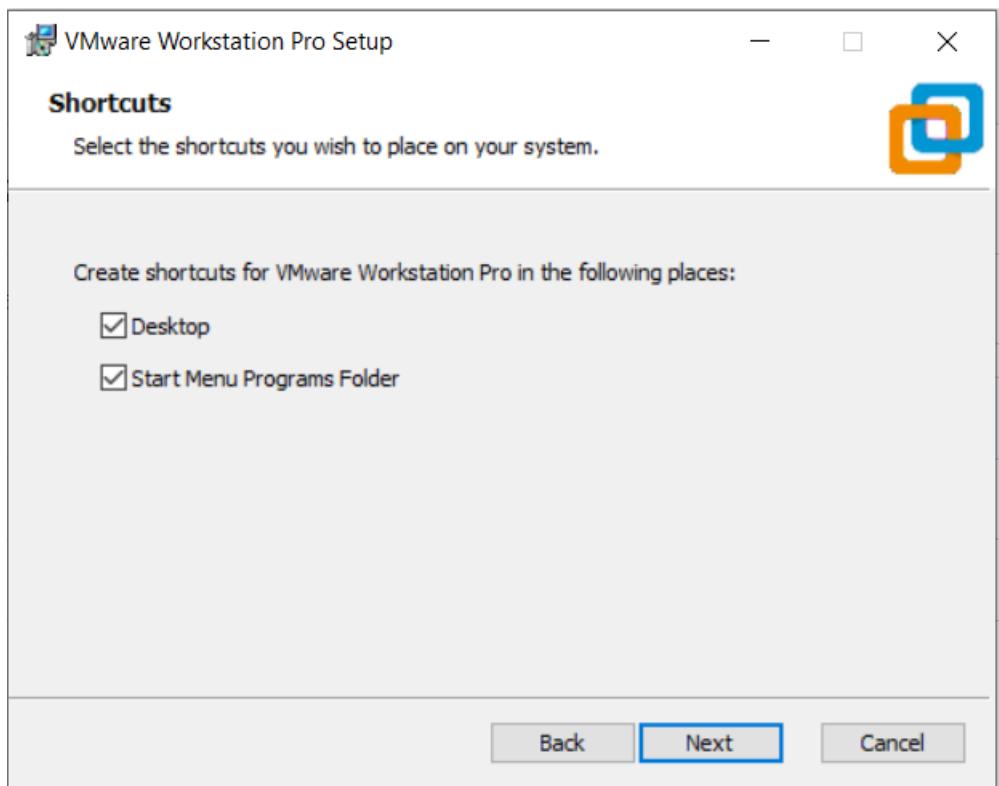


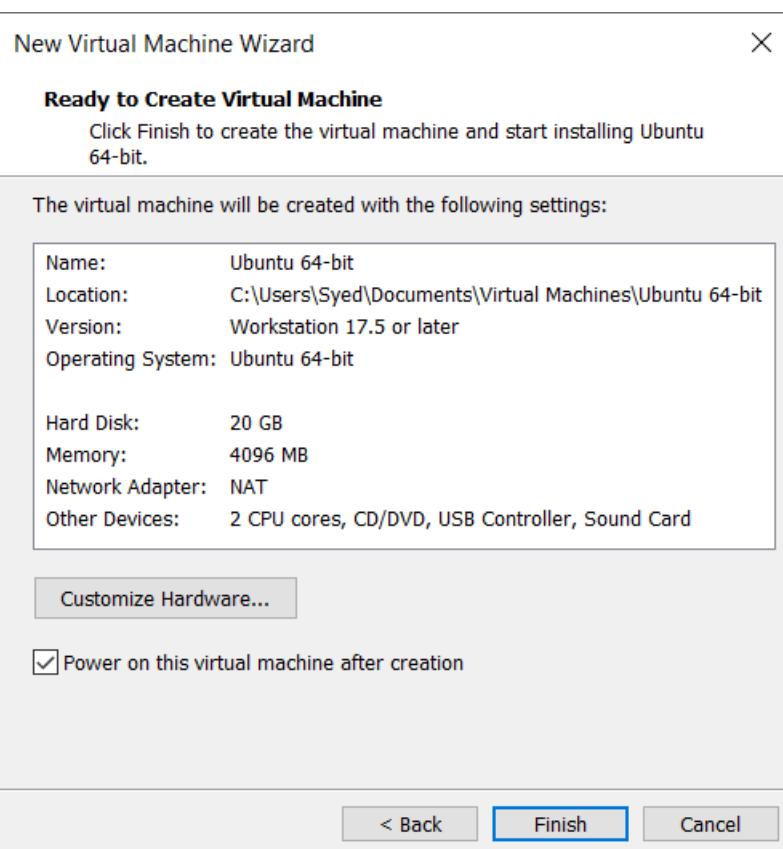
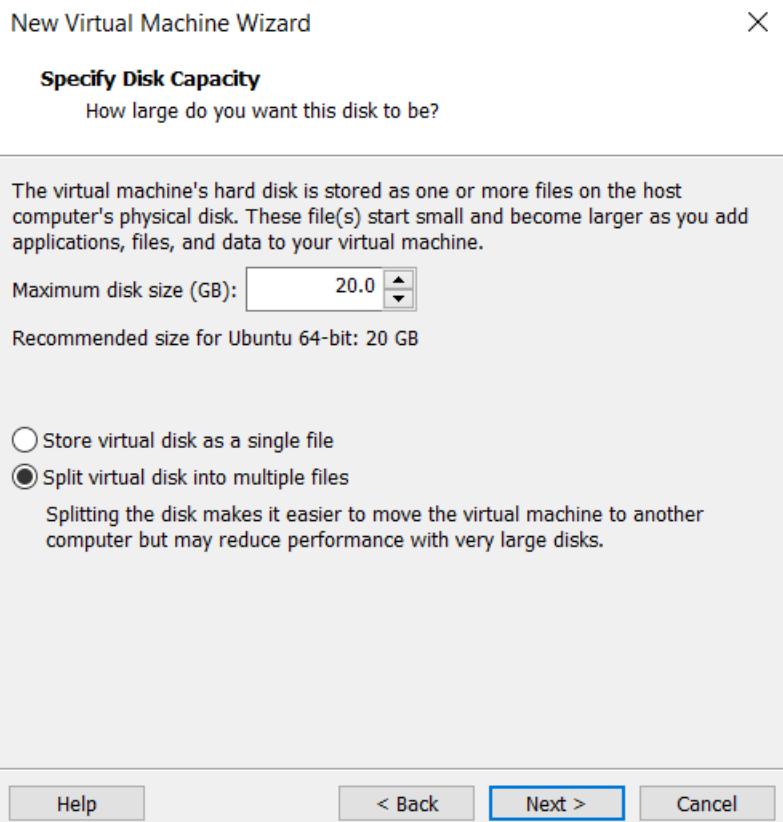




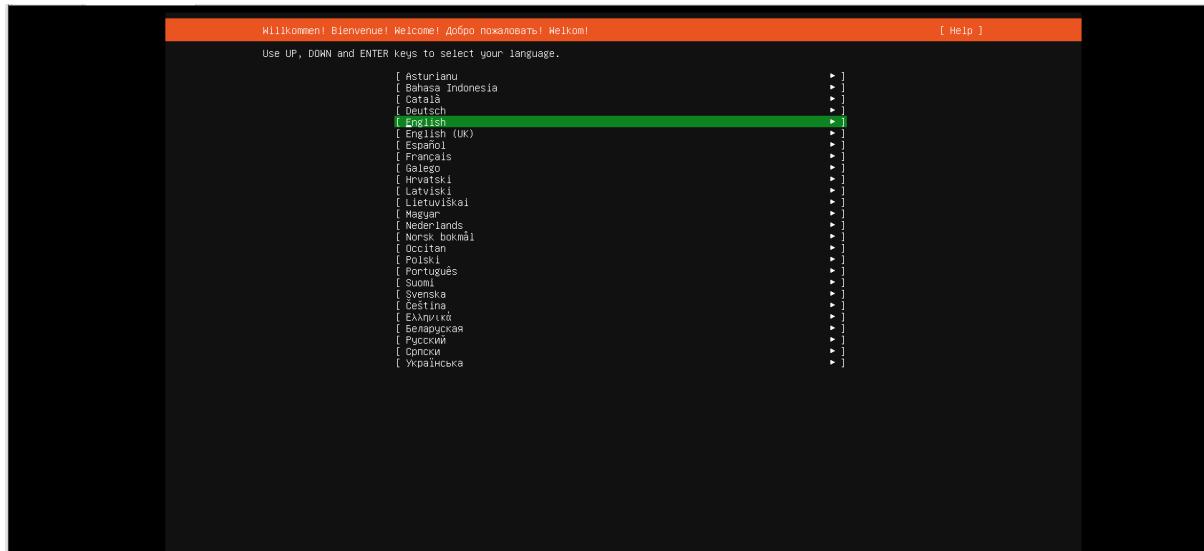


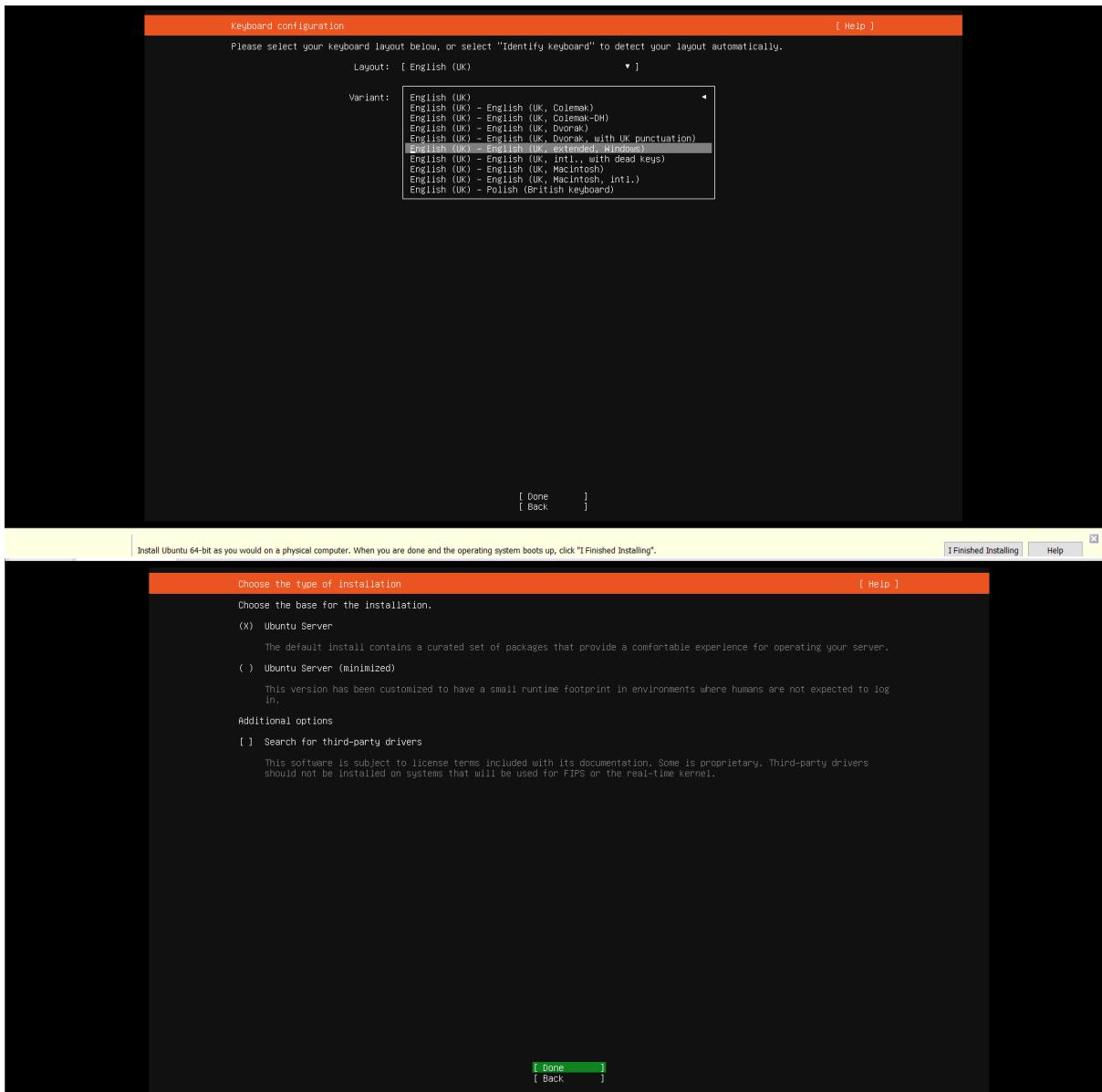
## Installation of Ubuntu in VMWare:

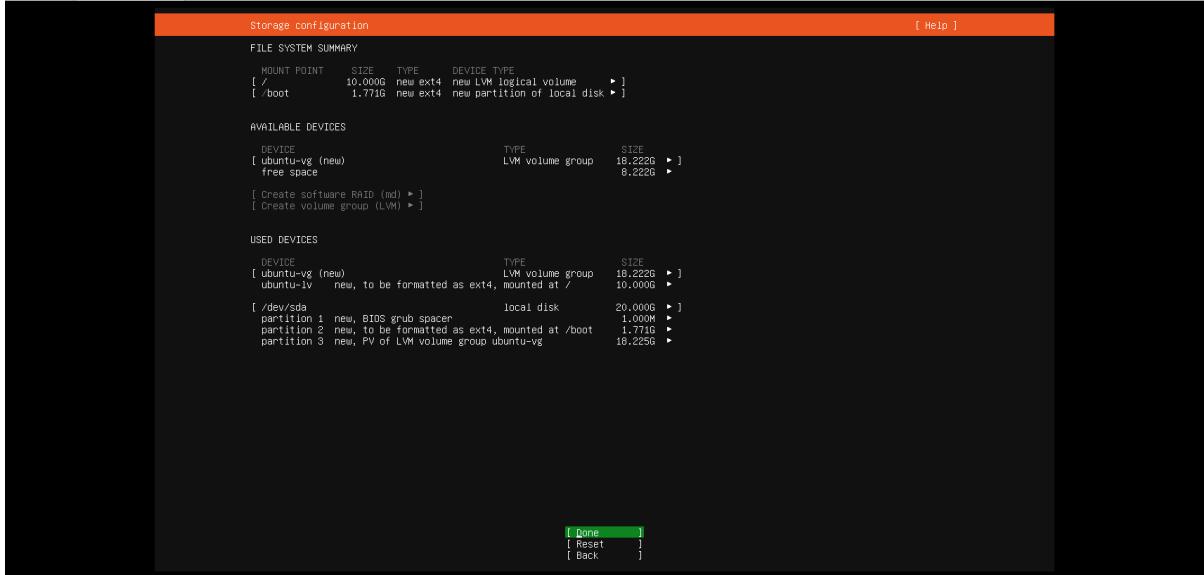
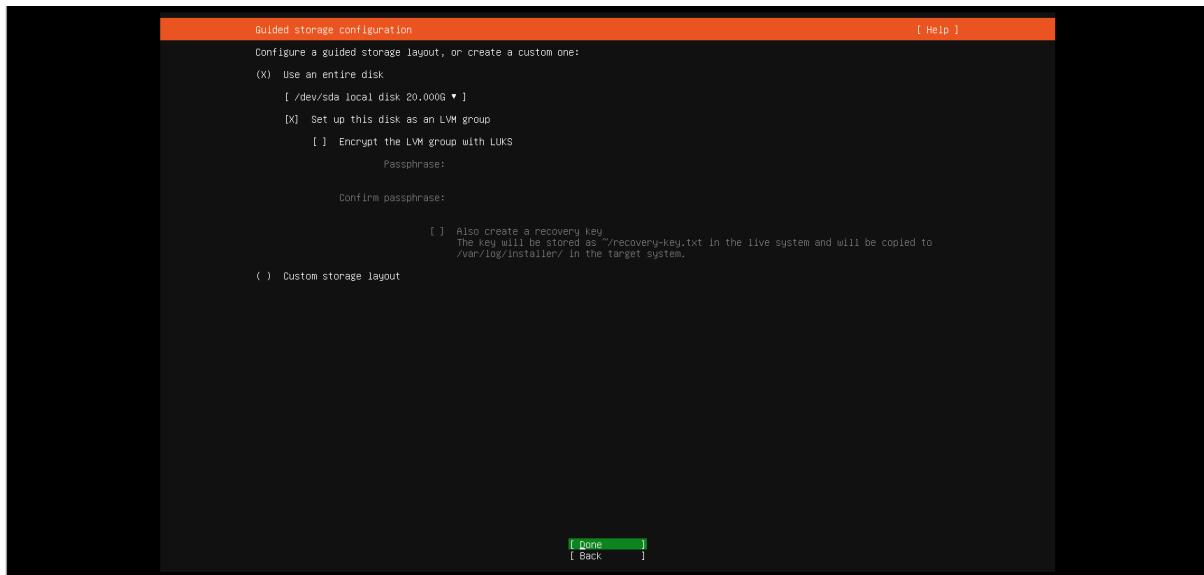




```
[ OK ] Listening on iscsid.socket - Open-iscsi iscsid Socket.
      Starting lxd-installer.socket - Helper to install lxd snap on demand...
      Starting snapd.socket - Socket activation for snapy daemon...
[ OK ] Listening on lxd.socket - LXD daemon socket activation socket.
[ OK ] Reached target remote-fs-pre.target - Preparation for Remote File Systems.
[ OK ] Reached target remote-fs.target - Remote File Systems.
[ OK ] Finished blk-availability.service - Availability of block devices.
[ OK ] Listening on snapd.socket - Socket activation for snapy daemon.
[ OK ] Reached target sockets.target - Socket Units.
[ OK ] Reached target basic.target - Basic System.
      Starting apport.service - automatic crash report generation...
      Started cloud-config.service - Cloud-init: Config Stage...
      Started chronyd.service - Network Time Protocol processing daemon.
      Starting dbus.service - D-Bus System Message Bus...
[ OK ] Started dmesg.service - Save initial kernel messages after boot.
      Starting e2scrub_reap.service - Remove Stale Online ext4 Metadata Check Snapshots...
[ OK ] Reached target getty.target - Login Prompts.
      Listening on /dev/initctl socket - udev热插拔消息接收器...
      Starting pollinate.service - Pollinate to seed the pseudo random number generator...
      Starting rsyslog.service - System Logging Service...
[ OK ] Reached target getty-pre.target - Preparation for Logins.
      Starting snapd.secrets.service - Hold until snap is fully seeded...
      Started systemd-timesyncd.service - System Clock Synchronization...
      Starting systat.service - Resets System Activity Logs...
      Starting systemd-logind.service - User Login Management...
      Starting systemd-user-sessions.service - Permit User Sessions...
      Starting udisks2.service - Disk Manager...
[ OK ] Listening on /dev/initctl socket - udev热插拔消息接收器...
[ OK ] Finished systemd-user-sessions.service - Permit User Sessions.
      Starting plymouth-quit-wait.service - Terminate Plymouth Boot Screen...
[ OK ] Finished sysstat.service - Reset System Activity Logs.
[ OK ] Finished plymouth-quit-wait.service - Hold until boot process finishes up...
      Starting setvtrgb.service - Set console scheme...
[ OK ] Started system-logind.service - User Login Management.
[ OK ] Finished plymouth-quit.service - Terminate Plymouth Boot Screen.
[ OK ] Started unattended-upgrades.service - Handle Unattended Upgrades Shutdown.
[ OK ] Finished plymouth-quit-wait.service - Set console scheme...
[ OK ] Started polkit.service - Authorization Manager.
      Starting ModemManager.service - Modem Manager...
      Started udisks2.service - Disk Manager.
[ OK ] Finished apport.service - automatic crash report generation.
[ OK ] Finished cloud-init.service - Cloud-init: Config Stage.
[ OK ] Started ModemManager.service - Modem Manager.
[ OK ] Finished cloud-config.service - Cloud-init: Config Stage.
[ OK ] Finished pollinate.service - Pollinate to seed the pseudo random number generator.
```







md) ► ]  
VM) ► ]

— Confirm destructive action —

Selecting Continue below will begin the installation process and result in the loss of data on the disks selected to be formatted.

You will not be able to return to this or a previous screen once the installation has started.

Are you sure you want to continue?

[ No ]  
[ Continue ]

[ Done ]

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: shumail

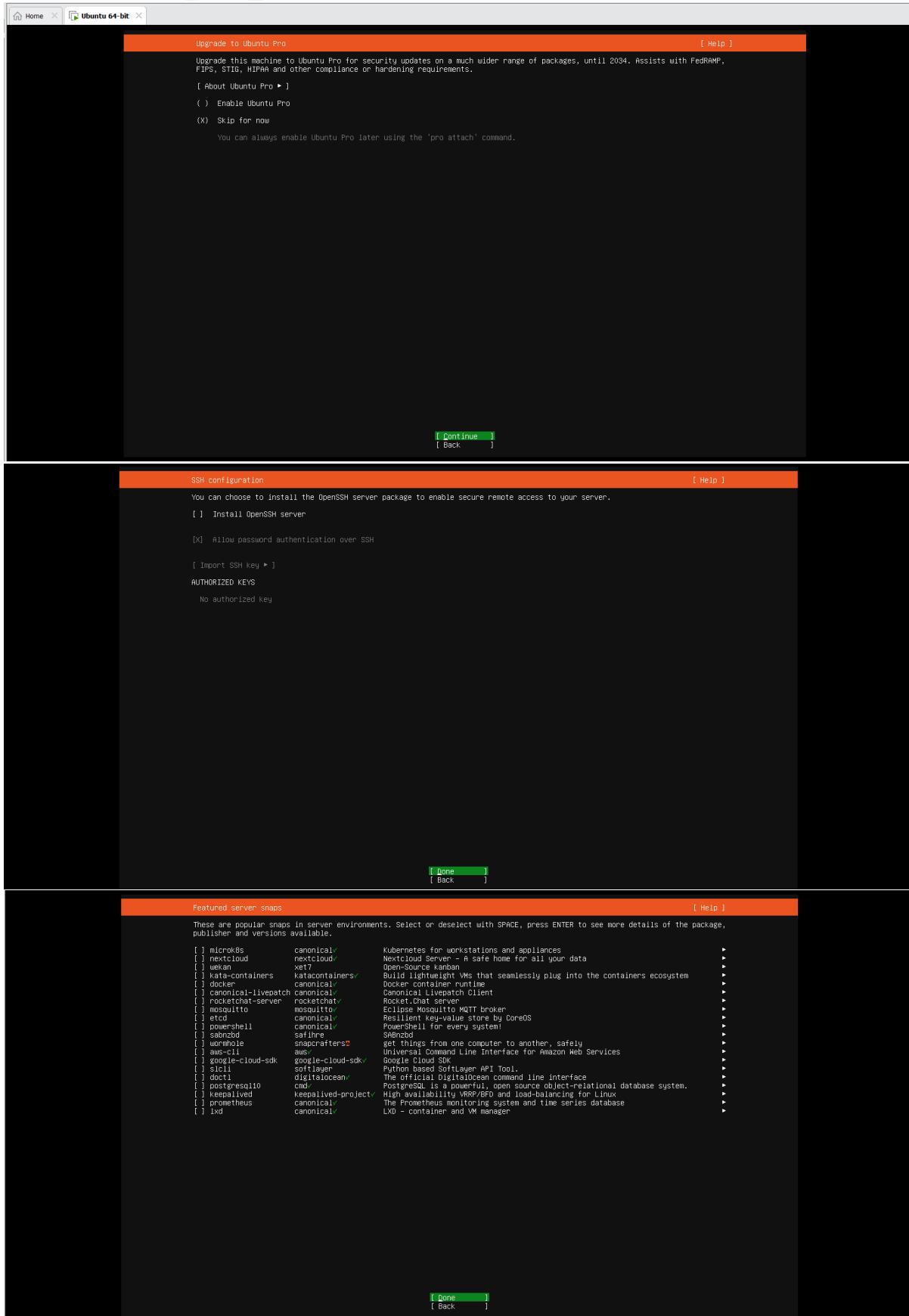
Your servers name: shumail66 The name it uses when it talks to other computers.

Pick a username: shumail

Choose a password: \*\*\*

Confirm your password: \*\*\*

[ Done ]



[ Help ]

```

Installing system
subiquity/load_cloud_config/extract_autoinstall:
subiquity/Early/apply_autoinstall_config:
subiquity/Reporting/apply_autoinstall_config:
subiquity/Error/apply_autoinstall_config:
subiquity/Userdata/apply_autoinstall_config:
subiquity/Package/apply_autoinstall_config:
subiquity/Debconf/apply_autoinstall_config:
subiquity/CloudConfig/apply_autoinstall_config:
subiquity/Device/apply_autoinstall_config:
subiquity/Ad/apply_autoinstall_config:
subiquity/Late/apply_autoinstall_config:
configuring apt
    curtin command in-target
installing system
    executing curtin install initial step
    executing curtin install partitioning step
    curtin command install
        configuring storage
            running 'curtin block-meta simple'
            curtin command block-meta
                removing previous storage devices
            configuring disk: disk-sda
            configuring partition: partition-0
            configuring partition: partition-1
            configuring format: format-0
            configuring partition: partition-2
            configuring lvm_volvgroup: lvm_volvgroup-0
            configuring lvm_partition: lvm_partition-0
            configuring format: format-1
            configuring mount: mount-1
            configuring mount: mount-0
    executing curtin install extract step
    curtin command install
        writing install sources to disk
            running 'curtin extract'
            curtin command extract
                acquiring and extracting image from cp:///tmp/tmp8boxewy7/mount |

```

[ View full log ]

[ Help ]

```

Installation complete!
configuring format: format-1
configuring mount: mount-0
executing curtin install extract step
curtin command install
writing install sources to disk
running 'curtin extract'
curtin command extract
acquiring and extracting image from cp:///tmp/tmpfbzxsx22/mount
configuring keyboard
curtin command in-target
executing curtin install curthooks step
curtin command install
configuring installed system
    running 'curtin curthooks'
    curtin command curthooks
        configuring and controlling apt
        installing required packages
        Installing packages on target system: ['srub-pc']
        configuring iscsi service
        configuring raid (mdadm) service
        configuring NVMe over TCP
        installing initramfs
        setting up Swap
        apply networking config
        writing etc/fstab
        configuring multipath
        updating initramfs on target system
        configuring pollinate user-agent on target
        updating initramfs configuration
        configuring target system bootloader
        installing grub on target devices
        config update from /cdrom
final system configuration
calculating extra packages to install
configuring cloud-init
downloading and installing security updates
within cloud-init target
restoring apt configuration
curtin command in-target
Subiquity/Late/run

```

[ View full log ]  
[ Reboot Now ]

<14>Sep 30 03:24:05 cloud-init: 256 SHA256:nQqCIrFz7180abNGS2dHVN13XTaaUVP9X3Jg5zgScII root@shumail166 (ED25519)
<14>Sep 30 03:24:05 cloud-init: 3072 SHA256:yGZarv2yuY0IEo9q9PyTgV6f1s92xiqd0d+o80fg root@shumail166 (RSA)
<14>Sep 30 03:24:05 cloud-init: -----END SSH HOST KEY FINGERPRINTS-----
-----BEGIN SSH HOST KEY KEYS-----
edca32-nistp256 AAAE2VJZHNhXN0YT1bm1zohAvtagNyTYAAA8B8B6LxLtm8STf200KghnXTf1i+IvJFE3mEmdnMnmH79uivlrEzfagjJuVF2NJS/vb0ng9eEdmXQLLjFeFEGE=
root@shumail166
ssh-ed25519 AAA3CNCzGzI0I0NT50A001L59-9D0U1f5fwgyP4dqyghnhdB0wcf7zg9qJU-rcg18shumail166
ssh-ed25519 AAA3CNCzGzI0I0NT50A001L59-9D0U1f5fwgyP4dqyghnhdB0wcf7zg9qJU-rcg18shumail166
-----END SSH HOST KEY KEYS-----
[ 66.526412] cloud-init(1927): Cloud-init v. 25.1.4~ubuntu0~24.04.1 finished at Tue, 30 Sep 2025 03:24:05 +0000. Data source DataSourceNone. Up 68.51 seconds
shumail166 login: shumail
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 Sep 30 03:28:25 AM UTC 2025

System load: 0.09 Processes: 249
Usage of /: 25.1% of 9.75GB Users logged in: 0
Memory usage: 7% IPv4 address for ens3: 192.168.188.128
Swap usage: 0% 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>.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See 'man sudo\_root' for details.

shumail@shumail166:~\$ \_

```
C:\Users\Syed>ssh shumail@192.168.183.128
The authenticity of host '192.168.183.128 (192.168.183.128)' can't be established.
ED25519 key fingerprint is SHA256:nNqclrFz71B0abNGSzdHYNi3XTaaUVp9X3jq5zgSc1I.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.183.128' (ED25519) to the list of known hosts.
shumail@192.168.183.128'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 Tue Sep 30 05:40:26 AM UTC 2025

System load: 0.17           Processes:          218
Usage of /: 25.7% of 9.75GB Users logged in:   1
Memory usage: 8%            IPv4 address for ens33: 192.168.183.128
Swap usage:  0%

Expanded Security Maintenance for Applications is not enabled.

53 updates can be applied immediately.
40 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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

Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings

shumail@shumail66:~$
```