



## Cloud Computing Lab

**Submitted to:**

Engr. Muhammad Shoaib

**Submitted by:**

Hania Akbar

**Reg no:**

2023-BSE-026

**Section:**

A

**Lab #01**

**Lab Title:**

Installation of Linux Server

Downloads > Utilities > Download VMWare Workstation Pro

# VMWare Workstation Pro

File name: VMware-workstation-full-17.6.4-24832109.exe    File size: 405.7 MB

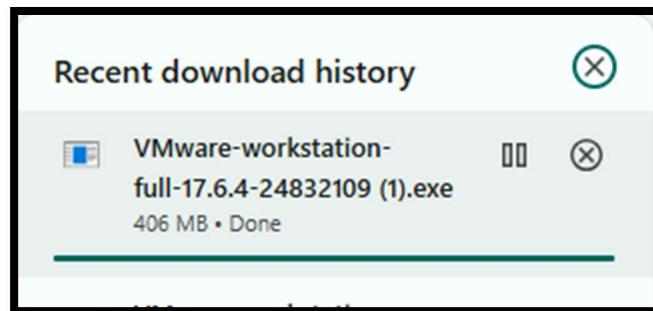
[f](#) [X](#) [t](#) [@](#)

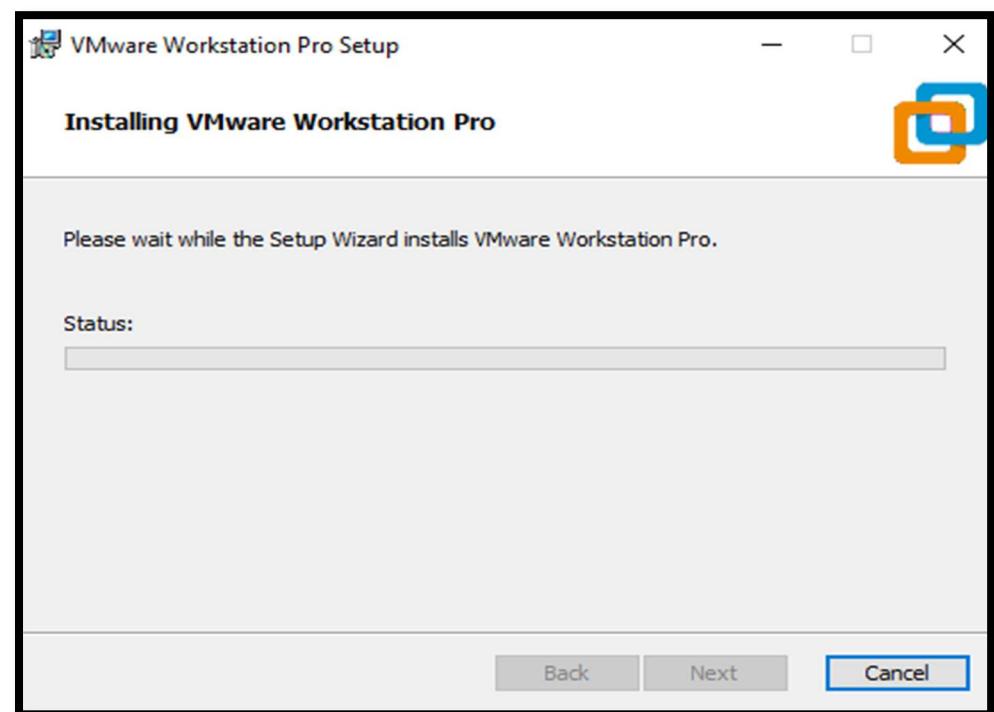
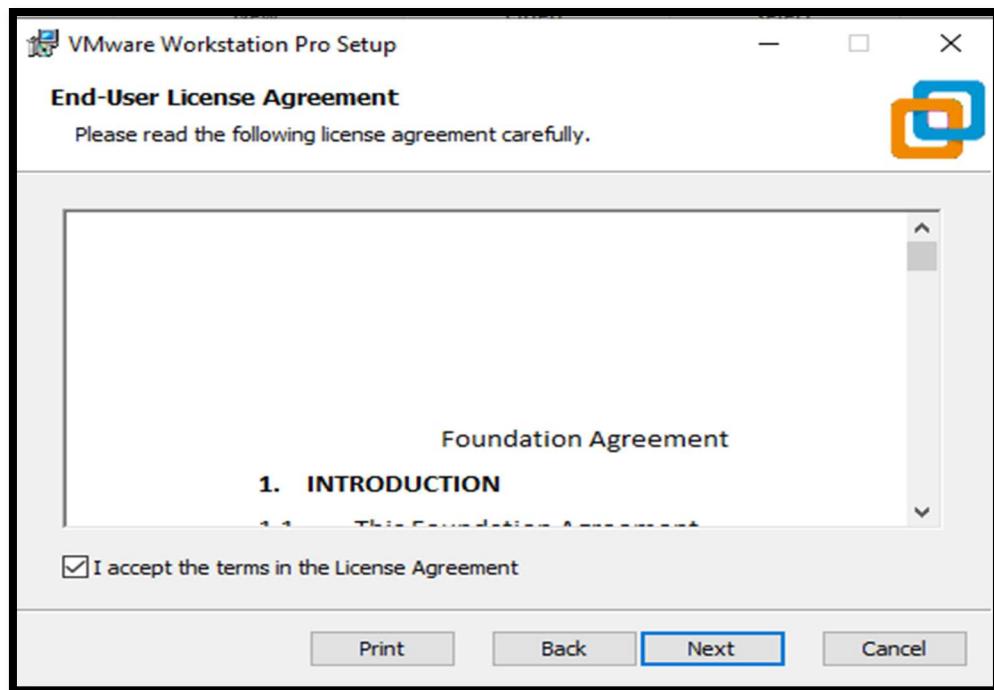
**Select server for download**

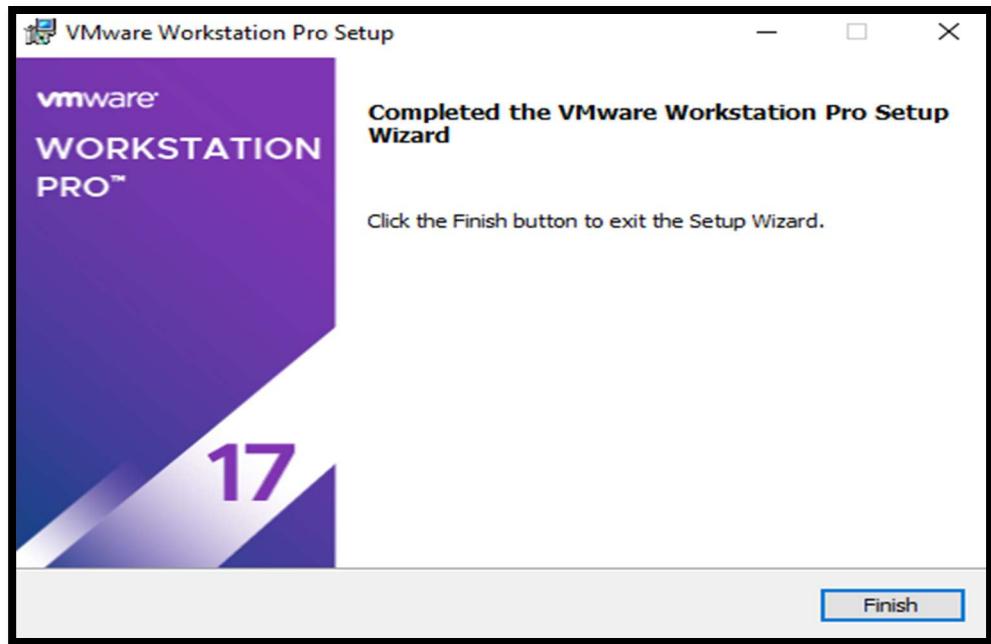
VMWare Workstation Pro 17.6.4 is available from our servers in the following locations:

Your download is starting now... [Get notified when a new version is released](#)

(closest to you) TechPowerUp US-3 Server load: 41%  TechPowerUp SG Server load: 20%  TechPowerUp NL Server load: 0%  TechPowerUp DE Server load: 5%  TechPowerUp UK-1 Server load: 3% 





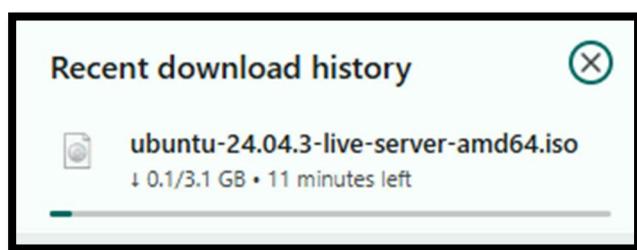


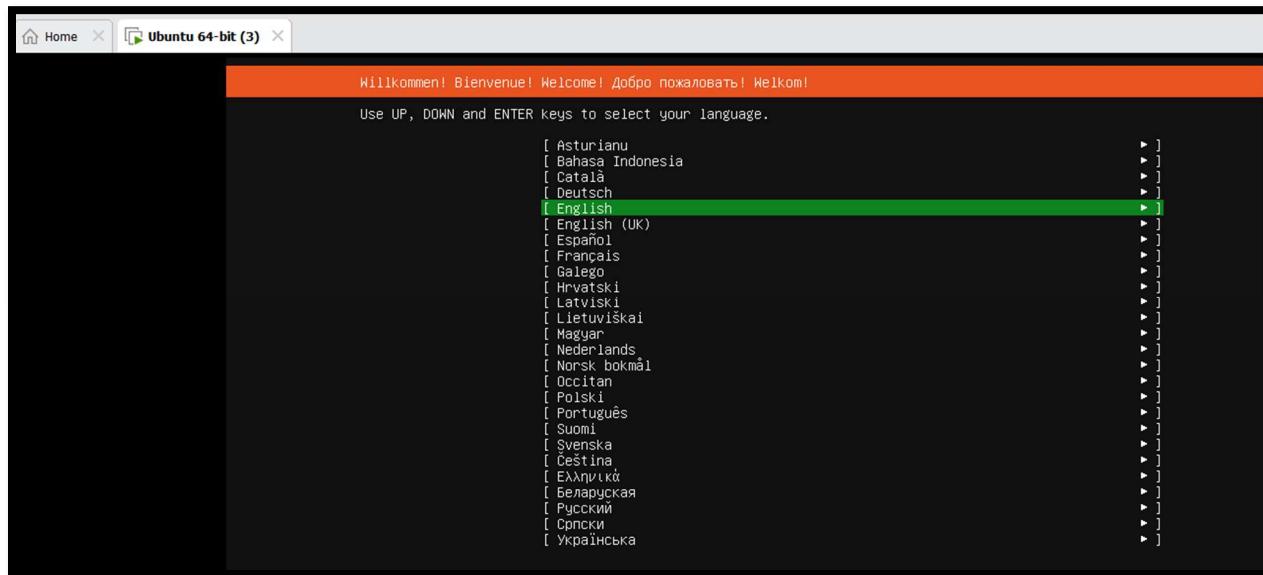
The screenshot shows the Ubuntu Server download page. At the top, there is a navigation bar with tabs: "Downloads" (highlighted), "Desktop", "Server" (selected), "Core", and "Cloud". Below the navigation bar, there are three download options: "Manual installation", "Instant VMs", and "Automated provisioning".

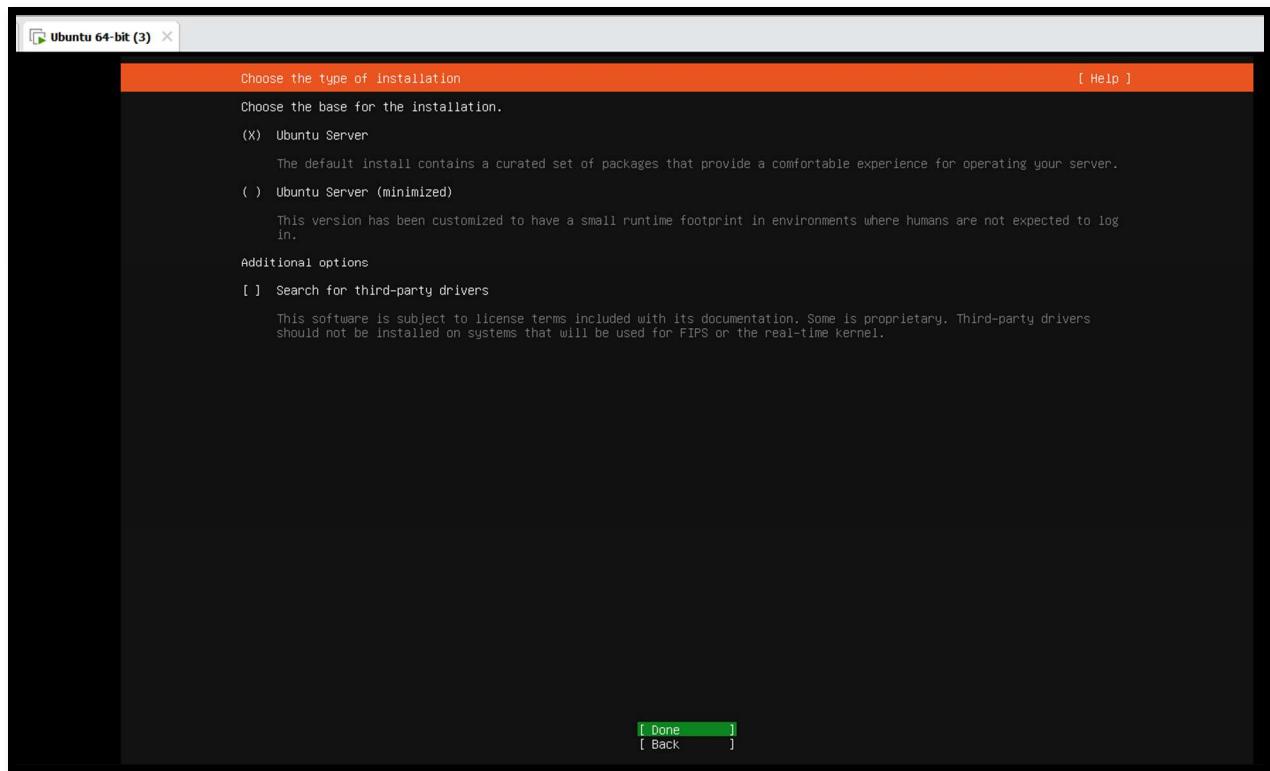
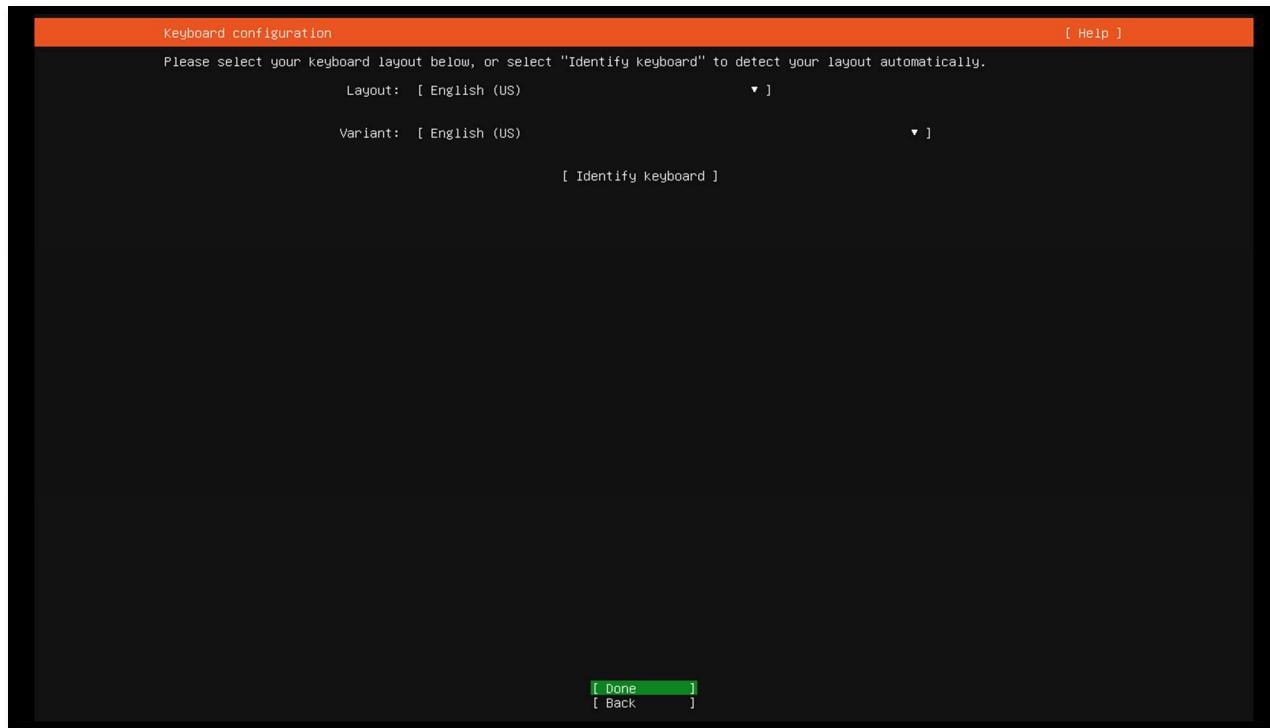
The main content area features the heading "Ubuntu 24.04.3 LTS" with a red crown icon to its left. To the right of the heading, a text block explains that it is the latest LTS version, providing long-term support for five years with free security and maintenance updates, extended to 10 years with Ubuntu Pro.

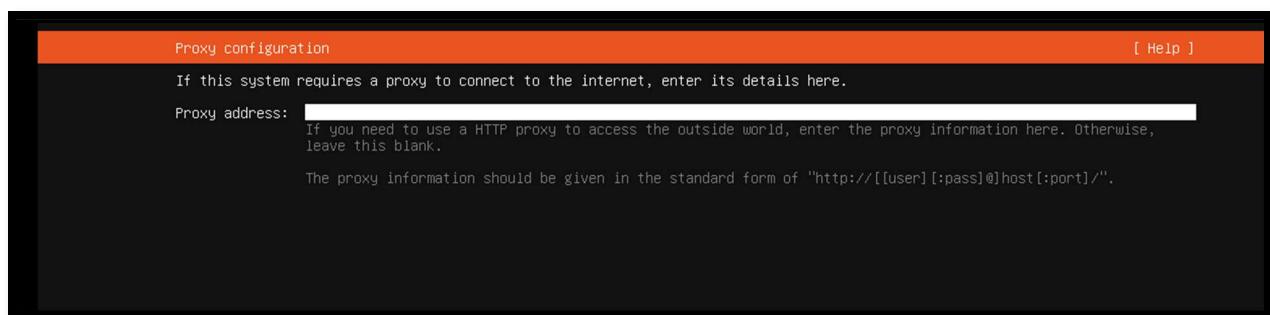
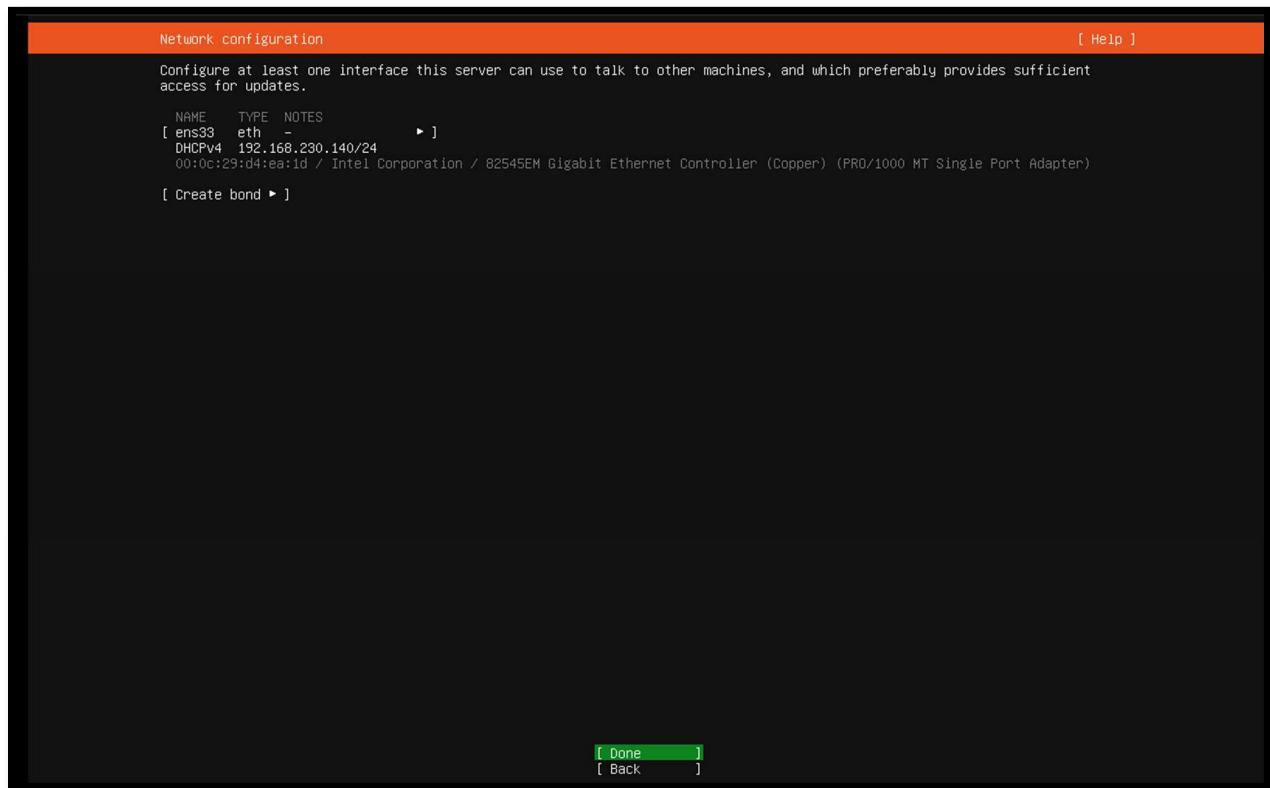
Below this text is a green "Download 24.04.3 LTS" button labeled "3GB". Underneath the button are links for "Alternative downloads >" and "Alternative architectures >".

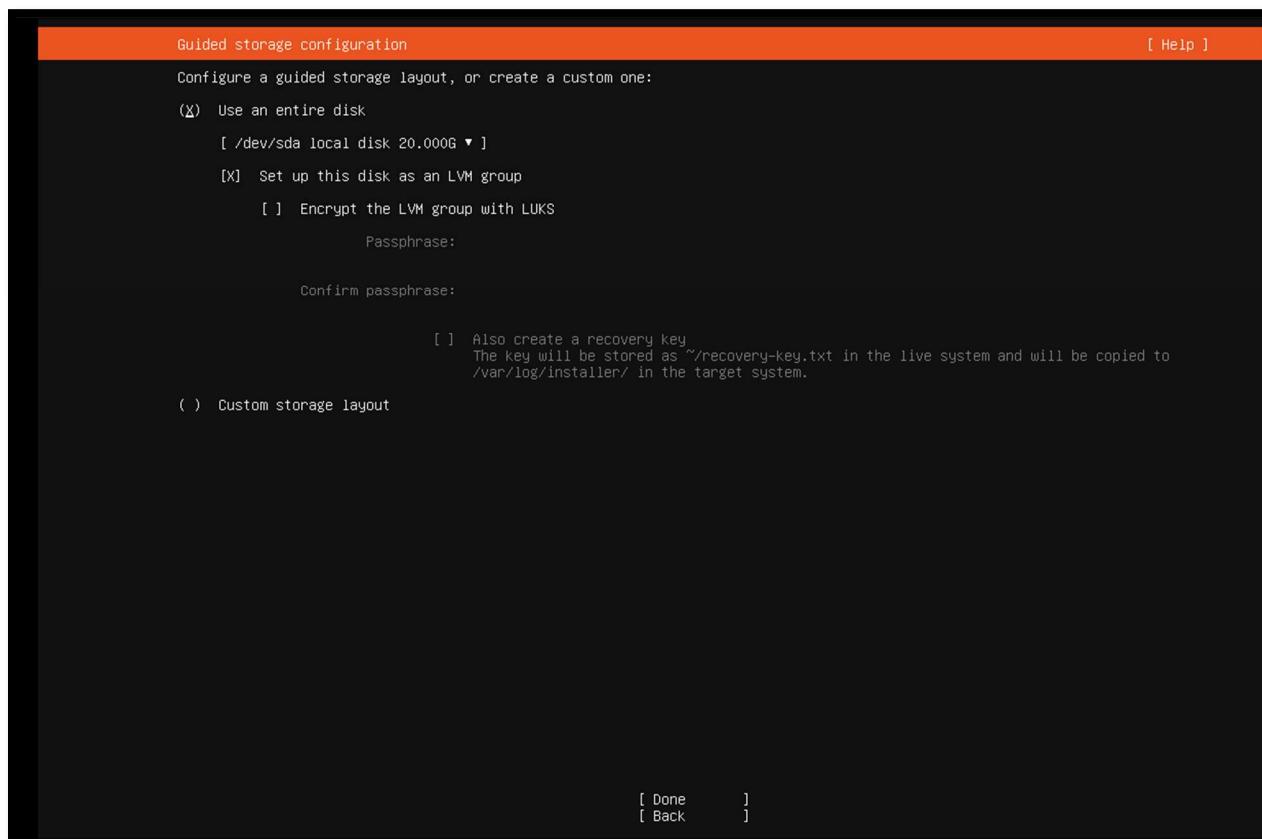
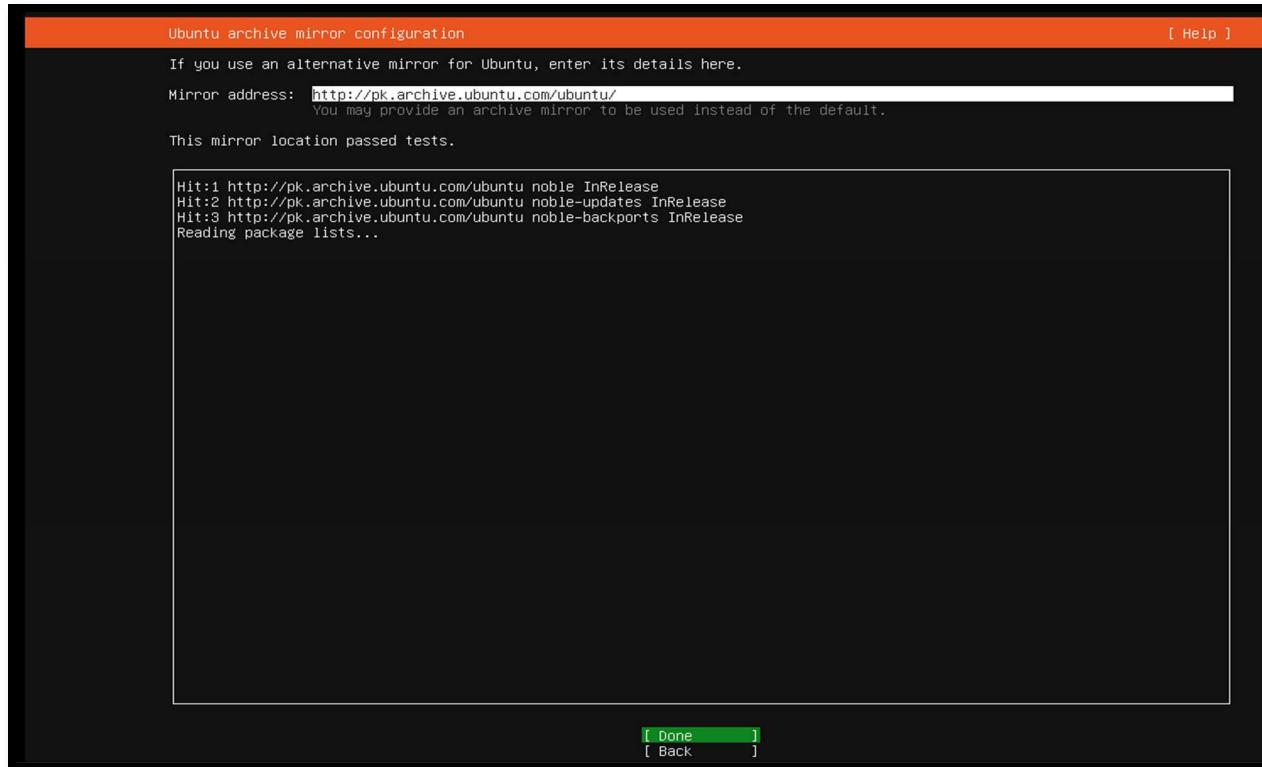
At the bottom of the page, there are links for "What's new", "System requirements", and "How to install". There are also two small circular icons with text: one for "Linux 6.8 kernel with low latency kernel features enabled by default" and another for "Frame pointers enabled by default for the majority of packages on".

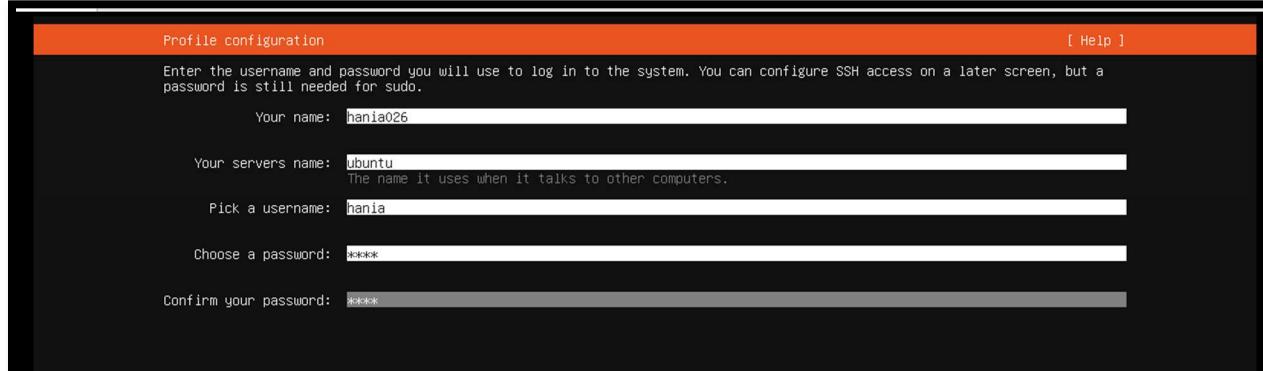
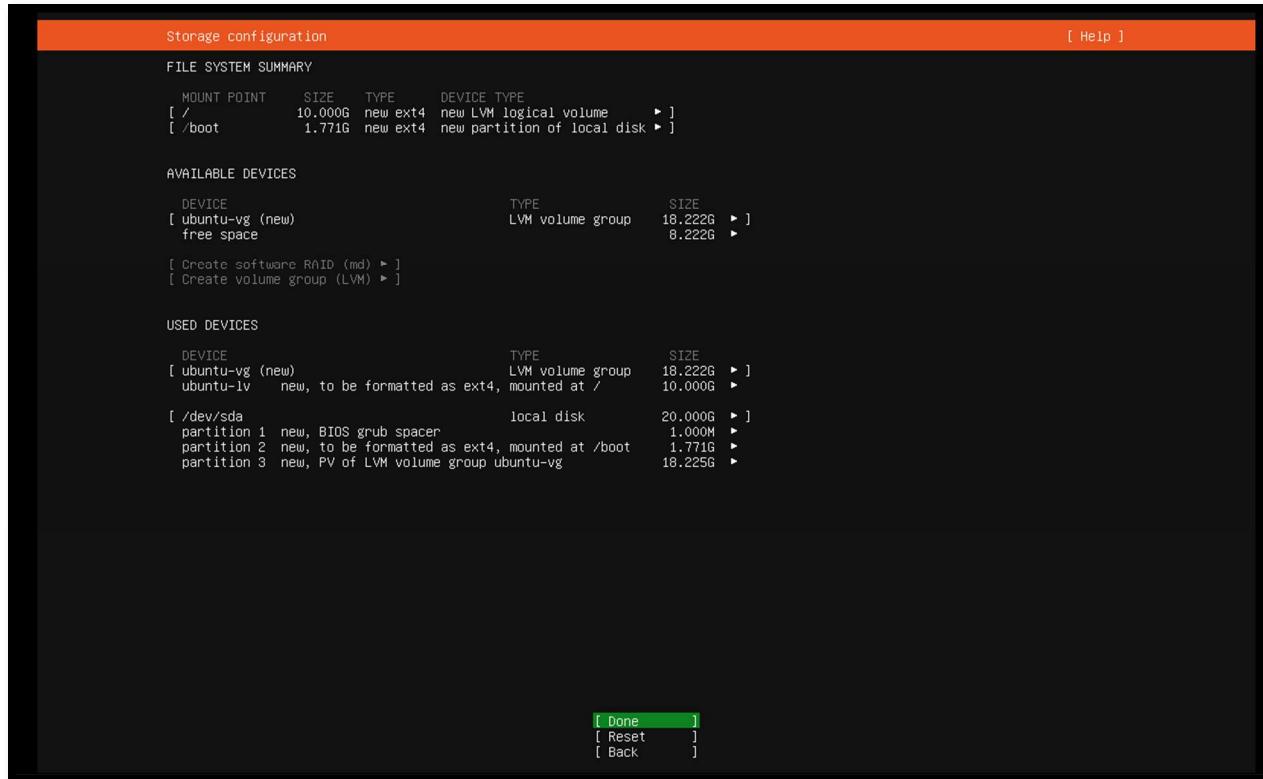


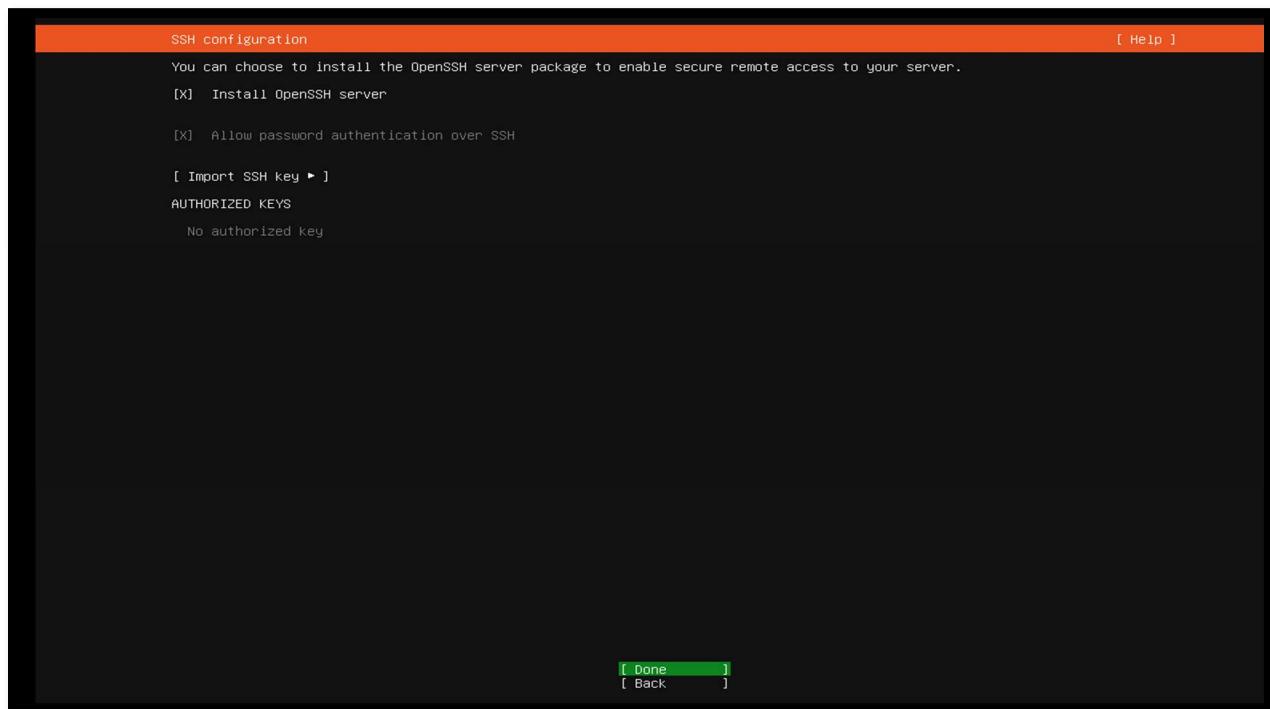
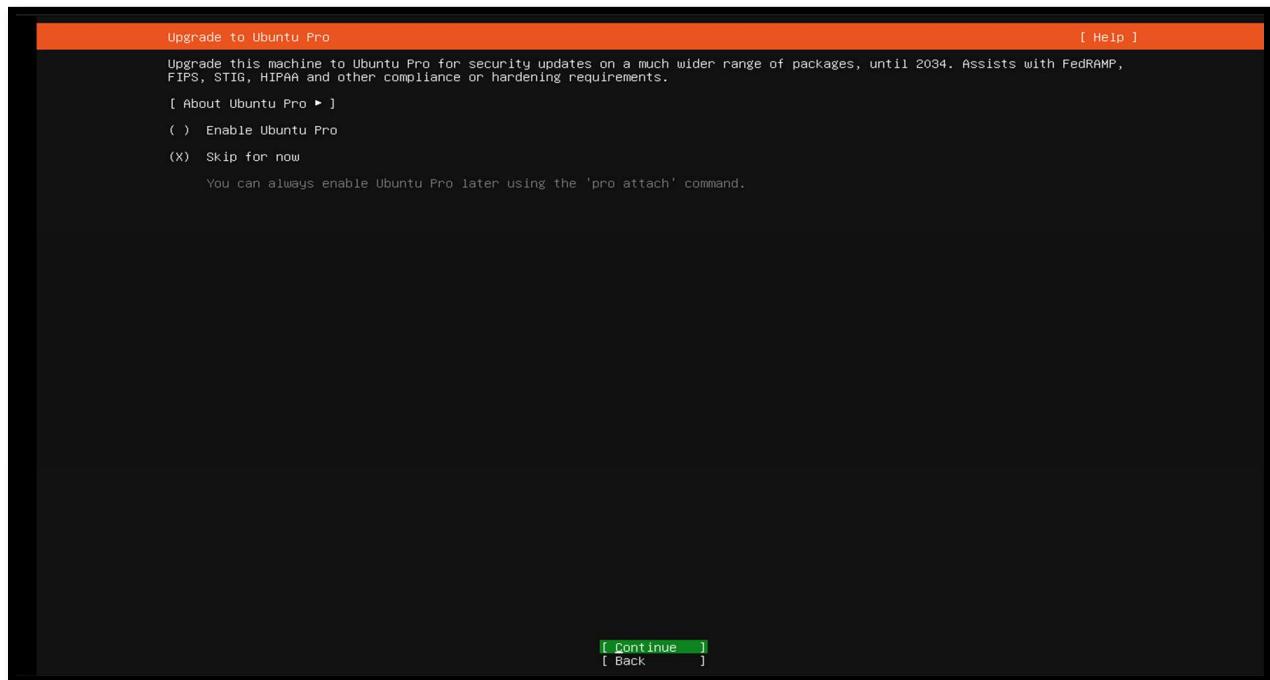


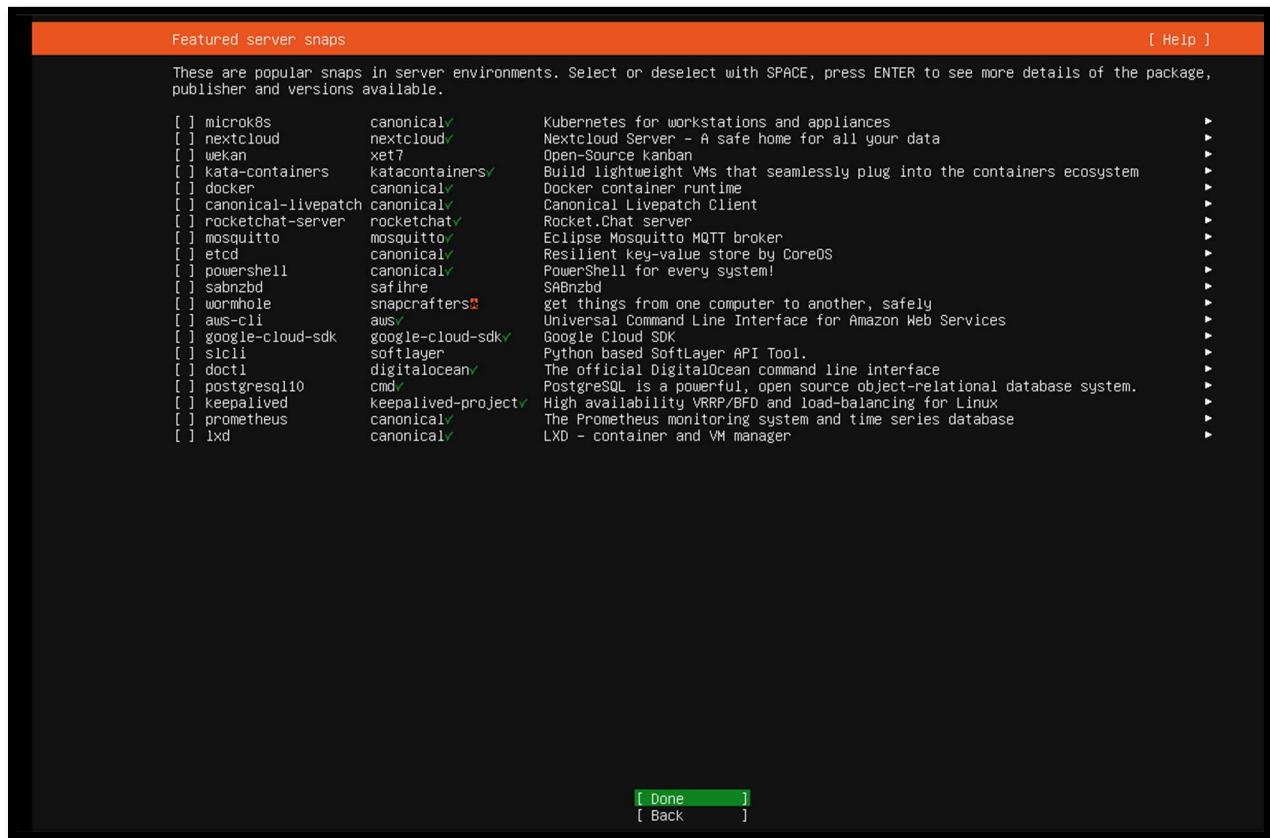








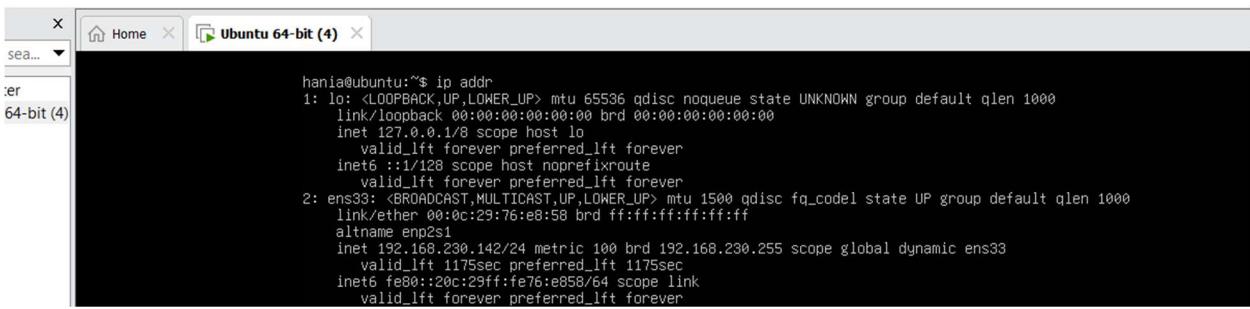




Installation complete! [ Help ]

```
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/tmpvnj5cqx8/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 apt configuring apt
installing missing packages
Installing packages on target system: ['grub-pc']
configuring iscsi service
configuring RAID (mdadm) service
configuring NVMe over TCP
installing kernel
setting up swap
apply networking config
writing etc/fstab
configuring multipath
updating packages on target system
configuring pollinate user-agent on target
updating initramfs configuration
configuring target system bootloader
installing grub to target devices
copying metadata from /cdrom
final system configuration
calculating extra packages to install
installing openssh-server
retrieving openssh-server
curtin command system-install
unpacking openssh-server
curtin command system-install
configuring cloud-init
restoring apt configuration
subiquity/Late/run:
```

[ View full log ] [ Reboot Now ]



The screenshot shows a terminal window titled "Ubuntu 64-bit (4)". The window contains the output of the "ip addr" command. The output lists two network interfaces: "lo" (loopback) and "ens33" (ethernet). The "lo" interface has an IPv4 address of 127.0.0.1 and an IPv6 address of ::1. The "ens33" interface has an IPv4 address of 192.168.230.142 and an IPv6 address of fe80::20c:29ff:fe76:858/64. Both interfaces have MTU values of 1500 and 65536 respectively.

```
hania@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:29:76:e8:58 brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.230.142/24 metric 100 brd 192.168.230.255 scope global dynamic ens33
        valid_lft 1175sec preferred_lft 1175sec
        inet6 fe80::20c:29ff:fe76:858/64 scope link
            valid_lft forever preferred_lft forever
```

```
hania@ubuntu: ~          X + ▾
Microsoft Windows [Version 10.0.26100.6584]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DELL>ssh hania@192.168.230.142
The authenticity of host '192.168.230.142 (192.168.230.142)' can't be established.
ED25519 key fingerprint is SHA256:jEfQHrBOId1PGT+rFwtb5XEKSBLbrHKcgsF2BoVs07s.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.230.142' (ED25519) to the list of known hosts.
hania@192.168.230.142'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 09:14:45 AM UTC 2025

System load: 0.0          Processes:           214
Usage of /: 45.0% of 9.75GB  Users logged in:   1
Memory usage: 13%          IPv4 address for ens33: 192.168.230.142
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

Last login: Mon Sep 29 05:42:37 2025 from 127.0.0.1
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

hania@ubuntu:~$
```