



Answer:Ex - 01

1300

1. Which Linux distribution is known for its emphasis on **security and privacy**, often used by security professionals and ethical hackers? (100)

- a) Ubuntu
- b) Fedora
- c) Kali Linux
- d) Debian

Answer :

Kali Linux is a type of Linux made for security experts and ethical hackers. It has many tools already installed for testing security, researching security, studying computers, and understanding how programs work. Because it focuses on security and privacy, many security professionals like to use it.

2. Which Linux distribution is known for its **user-friendly interface** and is often recommended for beginners? (100)

- a) Arch Linux
- b) Ubuntu
- c) Gentoo
- d) Slackware

Answer:

Ubuntu is known for its user-friendly interface and is often recommended for beginners. It is designed to be easy to use, with a focus on accessibility and a wide range of pre-installed software to get users started quickly. The strong community support and regular updates make it an ideal choice for new Linux users.

3. Which Linux distribution uses the **RPM Package Manager (RPM)** for package management? (100)

- a) Debian
- b) Ubuntu
- c) Fedora
- d) Arch Linux

Answer:

Fedora uses the RPM (Red Hat Package Manager) package management system. This system allows users to easily install, update, and remove software packages. Fedora is known for its use of the latest technologies and software, and is often used by developers.

Install, Update, Uninstall:

```
sudo rpm -i package_name.rpm
```

```
sudo rpm -U package_name.rpm
```

```
sudo rpm -e package_name
```

4. Which **lightweight Linux distribution** is designed to run efficiently on older hardware or low- resource environments?(100)

- a) CentOS
- b) Red Hat Enterprise Linux
- c) **Lubuntu**
- d) openSUSE

Answer:

Lubuntu is a lightweight Linux distribution designed to run efficiently on older hardware or in low-resource environments. This distribution uses the LXQt desktop environment, which is much lighter and more resource-efficient than other desktop environments, allowing older systems to run with good performance.

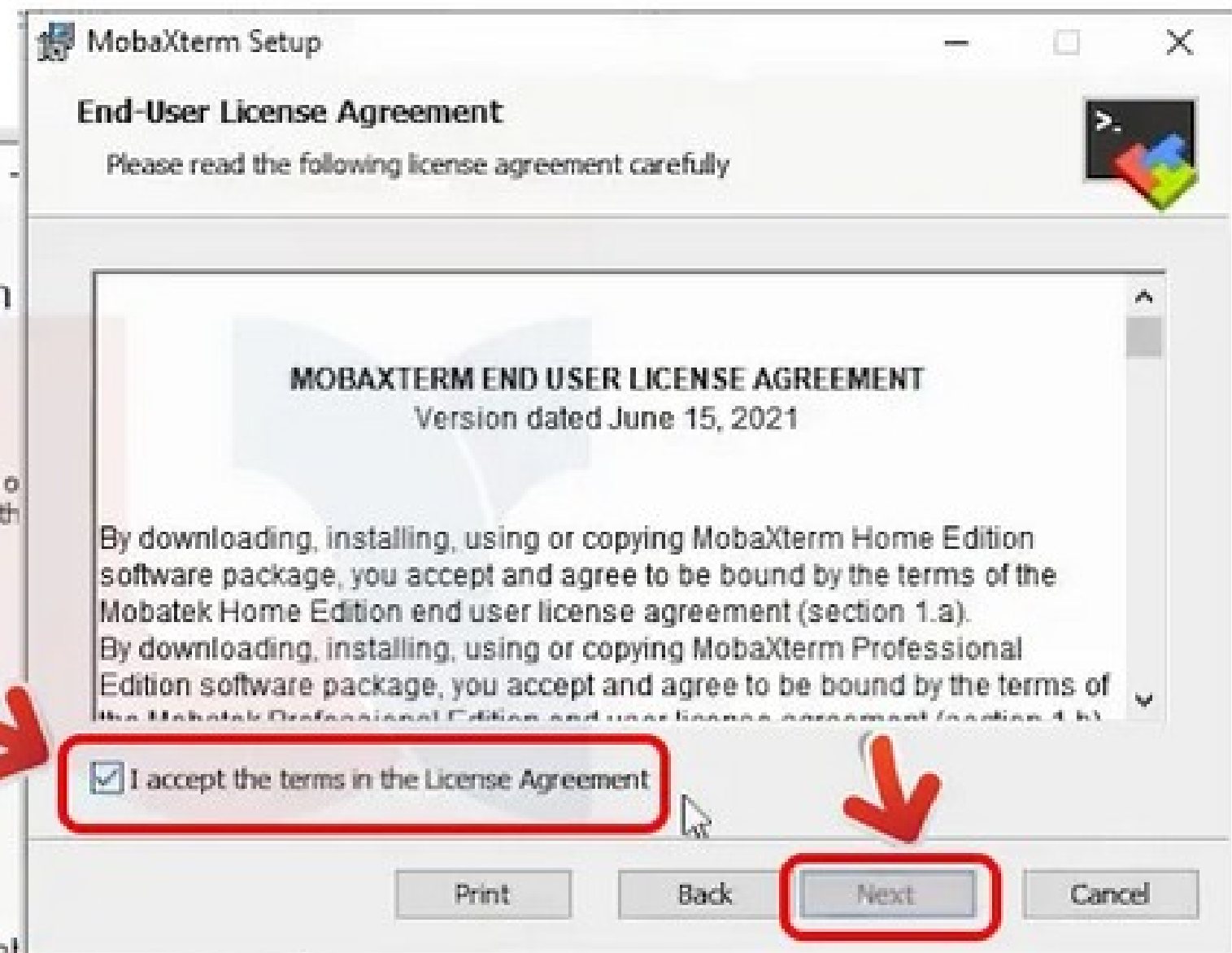
5. Install Ubuntu Server on **VMware** or **VirtualBox**, and use **MobaXterm** to SSH into the server. (Attach image from MobaXterm when is used for the SSH)(500)

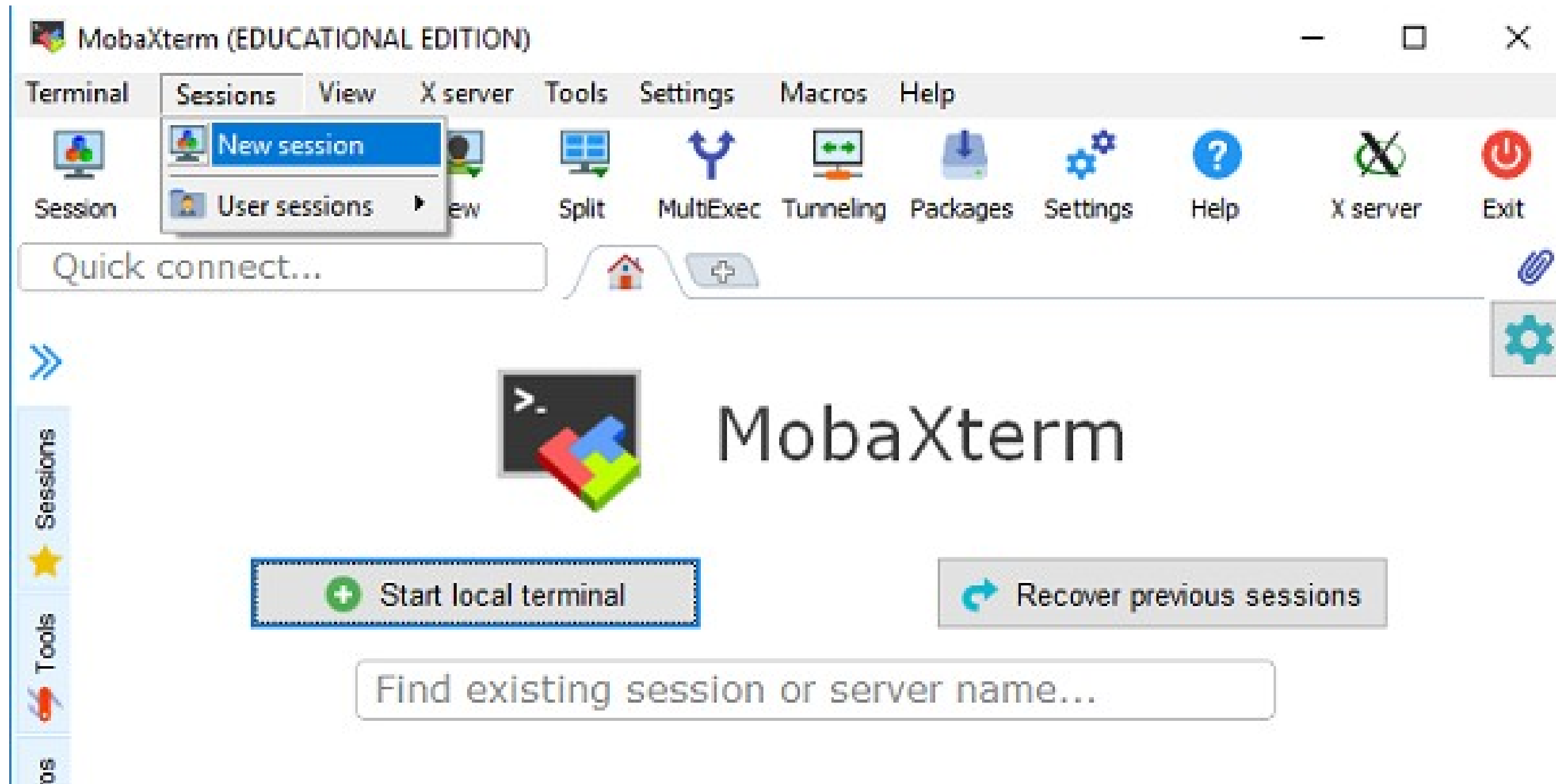


1.Search for Mobaxterm download on Google.

2.Download

3.Click on .exe








Open Mobaxterm.


1. Click on "Session" in the top left corner of the page.
2. Enter the IP address of the server you want to connect to in the "Remote Host" section.
3. Make sure the "SSH" radio button is selected.
4. Enter your username in the "Login" section.
5. If you have a password, enter it in the "Password" section. If you're using SSH keys, click on the "Advanced SSH settings" tab and select your key in the "Use private key" section.
6. Click "OK" to start the connection.


Session settings


 SSH


 Telnet


 Rsh


 Xdmcp


 RDP


 VNC


 FTP


 SFTP


 Serial


 File


 Shell


 Browser


 Mosh


 Basic SSH settings

Remote host * ☒ Specify username  Port


 Advanced SSH settings


 Terminal settings


 Network settings

 Bookmark settings

Secure Shell (SSH) session



 OK

 Cancel

Remote host: Enter the IP address or domain name of your server. For example, 192.168.1.100 or example.com.

Specify username: Enter your username. For example, user.

Port: The default SSH port is usually 22. If your server is using a different port, change it.

terminal

```
📅 26/05/2024 ⌚ 18:05.13 📁 /home/mobaxterm ➡ ssh ulduz@127.0.0.1 -p 1000
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-31-generic x86_64)

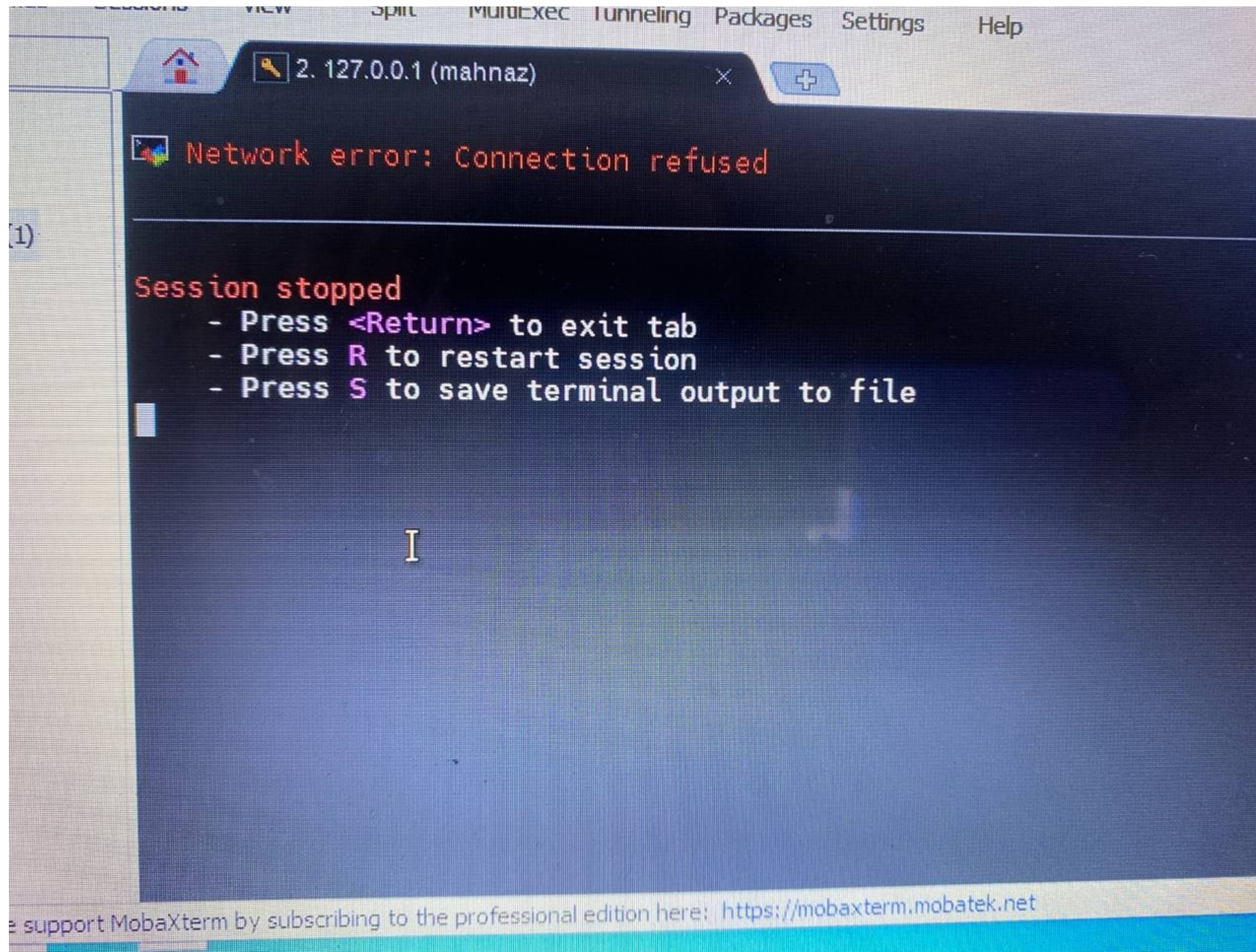
* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/pro

System information as of Mon May 27 01:06:18 AM UTC 2024

System load: 0.44           Processes:                  120
Usage of /:  37.7% of 11.21GB Users logged in:                 0
Memory usage: 9%           IPv4 address for enp0s3: 10.0.2.15
Swap usage:  0%

Last login: Thu May 23 13:51:26 2024 from 10.0.2.2
ulduz@ulduz:~$
```


error:



Error :

Network error: Connection refused

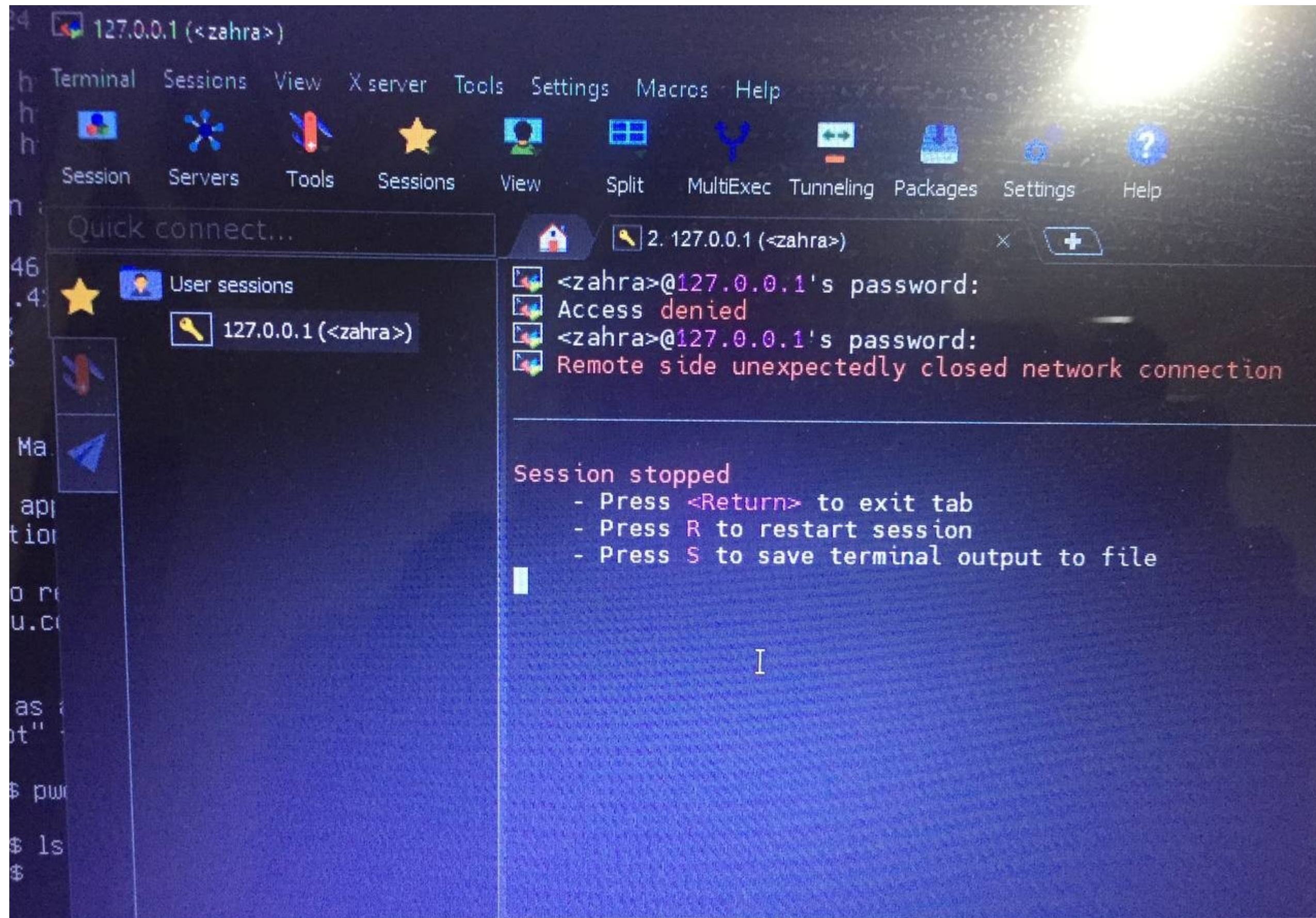
Reasons:

SSH Service Not Running

Firewall Blocking SSH

IP Address or Hostname Issues

Error:



Error:

Remote side unexpectedly closed network connection & Access denied

Reasons:

Incorrect Username or Password

5. Then install **Ubuntu Desktop**, on **VMware** or **VirtualBox**, then compare the ubuntu **server** and **Desktop. (400)**



Feature	Ubuntu Desktop	Ubuntu Server
User Interface	Has graphical user interface (GUI)	No graphical user interface (CLI)
Use	Everyday tasks for regular users	For servers and network services
Performance	Needs more system resources	Uses less system resources
Installation	Easy, graphical installation	Requires more technical knowledge
Software Support	Includes desktop software	Includes server software

User Interface:

- **Ubuntu Desktop:** Has a graphical user interface (GUI) that is easy to use.
- **Ubuntu Server:** Does not have a graphical user interface. It uses the command line (CLI).

Use:

- **Ubuntu Desktop:** Good for everyday tasks like browsing the web, playing media, and using office software.
- **Ubuntu Server:** Designed for running servers and providing network services.

Performance:

- **Ubuntu Desktop:** Needs more system resources because it has a graphical interface and more software.
- **Ubuntu Server:** Uses fewer system resources and can run well on older

hardware.

Installation:

- **Ubuntu Desktop: Easy to install with a graphical interface.**
- **Ubuntu Server: Harder to install; needs more technical knowledge.**

Software Support:

- **Ubuntu Desktop: Comes with software for daily use, like web browsers and media players.**

Ubuntu Server: Comes with server software, like web servers and database servers.

