If you've installed **Ubuntu Desktop** (with a graphical user interface) on your Ubuntu Server and want to **remove the desktop environment** and related graphical components, you can follow these steps to revert back to a **pure Ubuntu Server** setup without a GUI.

### Step 1: ****Identify the Desktop Environment****

First, you need to figure out which desktop environment or GUI components you've installed. Common desktop environments on Ubuntu include:

* **GNOME** (default in Ubuntu Desktop)
* **KDE Plasma**
* **XFCE**
* **LXQt** or **LXDE**
* **Cinnamon**

To check which packages are installed related to GUI, you can list the installed "gnome" packages or search for common desktop-related packages.

#### Check if GNOME is installed (for example):

dpkg -l | grep gnome

Or check for other common desktop packages, like ubuntu-desktop, kde-plasma, etc.

### Step 2: ****Uninstall the Desktop Environment****

After identifying the desktop environment, you can uninstall it by removing the specific desktop environment packages.

#### For GNOME (default on Ubuntu Desktop):

sudo apt-get purge ubuntu-desktop gnome-shell gdm3

#### For KDE Plasma:

sudo apt-get purge kubuntu-desktop kde-plasma\*

#### For XFCE:

sudo apt-get purge xubuntu-desktop xfce4\*

#### For LXQt/LXDE:

sudo apt-get purge lubuntu-desktop lxqt\*

### Step 3: ****Remove Unnecessary Packages****

You should also remove any unnecessary packages and dependencies that were installed with the desktop environment but are no longer needed.

Run:

sudo apt-get autoremove --purge

This will remove any orphaned packages (dependencies that were installed with the desktop environment but are no longer required).

### Step 4: ****Remove Display Manager****

The display manager is responsible for managing the login screen (e.g., GDM, LightDM). You will need to remove it as well.

For example:

* **GDM3** (GNOME Display Manager):

sudo apt-get purge gdm3

* **LightDM** (common for other desktops):

sudo apt-get purge lightdm

If you're unsure which display manager is in use, you can check with:

cat /etc/X11/default-display-manager

### Step 5: ****Remove GUI-related Packages****

Remove common packages related to GUI components, such as xorg, xserver, and others:

sudo apt-get purge xorg xserver-xorg

You can also remove fonts and other GUI-related packages:

sudo apt-get purge fonts-\* libglu1-mesa

### Step 6: ****Reboot****

Once you've removed the GUI packages, it's a good idea to reboot the system to ensure all changes take effect properly.

sudo reboot

### Optional Step: ****Reinstall Essential Server Packages****

Sometimes removing a desktop environment can also remove useful server packages, so you might want to reinstall them (e.g., openssh-server if you need SSH access):

sudo apt-get install openssh-server

### Final Verification:

After rebooting, your system should boot into a text-based console rather than a graphical login screen, indicating that the GUI has been fully removed.

To check if your system is truly GUI-free:

1. **Run the command** startx. If it starts the GUI, some components might still be installed.
2. **Check for GUI processes** using:

ps aux | grep -i gnome

ps aux | grep -i xorg

Let me know if you run into any issues or need further clarification on any step!