**Ubuntu Dual-Boot Installation Guide**

# **Preparing your system:**

Before beginning the installation, ensure you have:

* A USB drive with at least 8 GB storage for creating a bootable Ubuntu installer.
* A backup of your important data.
* Space on your disk for the Ubuntu partition.

# **Creating a bootable USB:**

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| **Figure 1.1**: This image likely shows the creation of a bootable USB using a tool like **Rufus** or **Etcher**.   * Download the Ubuntu ISO from the [official website](https://ubuntu.com/download). * Use **Rufus** (Windows) or **Startup Disk Creator** (Linux) to write the ISO to the USB drive. * Select your USB drive, load the ISO file, and click **Start**. |  |

# **Booting from USB:**

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| **Figure 1.2**: Boot into the BIOS/UEFI of your system to set the USB as the primary boot device.   * Restart your PC and press the BIOS/UEFI key (commonly F2, F10, F12, or DEL) during boot. * Navigate to the boot menu and select the USB drive. * Save and exit; the system will boot into the Ubuntu installer. |  |

# **Choosing Installation Type**

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| **Figure 1.3**: This step likely shows the Ubuntu installer welcome screen.   * Select the installation language. * Choose **Try Ubuntu** to run it without installing or **Install Ubuntu** to begin the setup process. |  |

# **Choosing the Installation Language**

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| The installer prompts you to select your preferred language. Choose a language from the list and click Continue to proceed. |  |

# **Connecting to the Internet**

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| **Figure 1.5**: The installer will ask if you want to connect to the internet.   * If you have an active Wi-Fi network, connect to it. * Alternatively, you can skip this step and connect later. |  |

# **Choosing Software Options**

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| **Figure 1.6**: The installer asks if you want to install third-party software (e.g., drivers, multimedia codecs).   * It is recommended to check this option for optimal hardware performance. * Click **Continue** after making your choice. |  |

# **Installation Type**

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| **Figure 1.7**: You will see options for installation type:   * **Install Ubuntu alongside Windows**: This automatic option sets up a dual boot without manual partitioning. * **Something Else**: Select this option if you want to manually manage partitions. This is the method demonstrated here. |  |

# **Selecting the Partition Disk**

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| **Figure 1.8**: The installer asks you to choose a disk for partitioning:   1. Select the disk where Ubuntu will be installed. 2. Create the following partitions manually:    * A **Root Partition** (/) formatted as ext4 (minimum 20 GB).    * A **Swap Partition** (optional, equal to your RAM size).    * Optionally, a **Home Partition** for user files. |  |

# **Creating Your Account**

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| **Figure 1.9**: The installer prompts you to create your user account:   * Enter your full name. * Choose a username and password. * Optionally, enable automatic login or require a password. * Click **Continue** to proceed. | Figure 1.9 |

# **Reviewing Installation Choices**

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| **Figure 1.10**: The installer displays a summary of your selected options:   * Review the partitions, user account settings, and software choices. * If everything looks correct, click **Install Now** to begin the installation. |  |

# **Installation Progress**

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| **Figure 1.11**: The installer shows the installation progress screen:   * Files are copied, and the system is configured. * This process may take some time, depending on your hardware. |  |

# **OS Selection After Installation**

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| **Figure 1.12**: After the installation is complete, reboot your system. The **Grub Bootloader** will appear, allowing you to select between Ubuntu and Windows.   * Highlight the desired operating system and press **Enter** to boot. |  |

# **Post-Installation Setup**

After logging into Ubuntu:

* Open a terminal and run:

**sudo apt update && sudo apt upgrade**

* Install additional software a**up**

eded from the Ubuntu Software Center.