

# Dual-Boot Configuration

This playbook provides a detailed guide for setting up a dual-boot environment on a PC that allows the user to operate multiple operating systems, specifically Windows and Linux. It includes partitioning the hard drive, installing both operating systems, and configuring the boot loader.

## Step 1: **Backup Data**

Back up all important data from the PC to prevent loss during the dual-boot setup process.

## Step 2: **Create Partition**

Use a disk partitioning tool to resize existing partitions and create a new partition for the secondary operating system.

## Step 3: **Install Windows**

Begin with the installation of Windows OS if not already installed. This is typically done first as it makes the process smoother.

## Step 4: **Prepare for Linux**

Prepare a bootable USB drive with the Linux distribution of choice and restart the computer to boot from the USB.

## Step 5: **Install Linux**

During Linux installation, choose the 'Something else' option to manually select the previously created partition for Linux and install the bootloader (GRUB).

## Step 6: **Update GRUB**

After the installation, boot into Linux and run an update for the GRUB bootloader to ensure it recognizes both operating systems.

## Step 7: **Test Boot**

Restart the PC to test the dual-boot setup. The GRUB menu should provide options to boot into either Windows or Linux.

# **General Notes**

## **Secure Boot**

Disable Secure Boot in the BIOS settings if issues arise during the Linux installation, as some Linux distributions do not support Secure Boot.

## **Partition Scheme**

For a Linux installation, the commonly used partition scheme includes Root, Swap, and Home. Ensure you understand these before partitioning.

## **Backup Importance**

It is critical to have a backup of the data as partitioning and installing an operating system can lead to data loss if any step goes wrong.

## System Requirements

Verify that the PC meets the system requirements for both operating systems that will be installed.

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