

Ready for disaster

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Windows



Reformat (re-format) the hard drive, reinstall the operating system (OS) and the things that are ready for this job are not easy. You have to take steps to back up your data, personal information, reformat your hard drive, OS settings, device drivers, hardware (drivers), install the necessary applications and connect Finish by copying backup data to the system. All of this will take quite a bit of time, but these are things to do when the computer is operating abnormally or unstable and especially in the case of computers infected with viruses and malware.

Back up the system

The method of creating system partition and storing in a separate partition (system backup) is a way to keep the system safer and also help you get back to work as quickly as possible when the system crashes. Prioritize doing this before the system 'fails'.

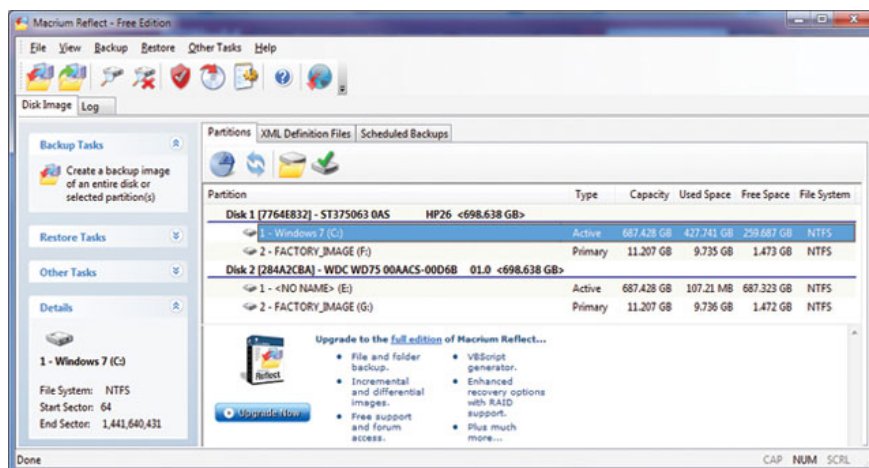
You should create a partition image file when the system is in the best state, for example, fully updated operating system fixes via *Windows Update* , install necessary applications for work, personalize the system according to the need to use and check the system status via *Action Center* . There are many free and paid system backup utilities such as **Macrium Reflect Free Edition** or **Genie Backup Manager Home** that support a variety of backup methods, from CD / DVD, external storage devices (memory sticks, hard drive) and network hard drive.

In addition, some utilities available in *Hiren's Boot CDs*, *Ultimate Boot CD*, *Bart'sPE* such as *PowerQuest's Drive Image* , *Norton Ghost* of *Symantec* , *DriveWorks* of *V Communications*, *Acronis Acronis True Image* are also utilities. Back up your valuable system, you can use any software or CD depending on your habits. Note that restoring the system from the partition image file will delete and overwrite all data in that partition. If not careful, it will be very difficult to save the data in case the wrong partition is selected.

Besides, readers should also regularly perform personal data backup. Due to the importance of personal data, it is necessary to separate between backing up the system and personal data.

Back up the driver

Finding and installing a hardware device driver (driver) compatible with the operating system will consume a lot of time when having to reinstall the OS. Free utility **Double Driver 4.1** helps to backup all system drivers quickly and easily. After installation, select **Scan** to scan the system utility and list the drivers that are in use, click the hardware device drivers to save or select '**check all**' to select them all.



Macrium Reflect Free Edition is free, easy to use.

System safety

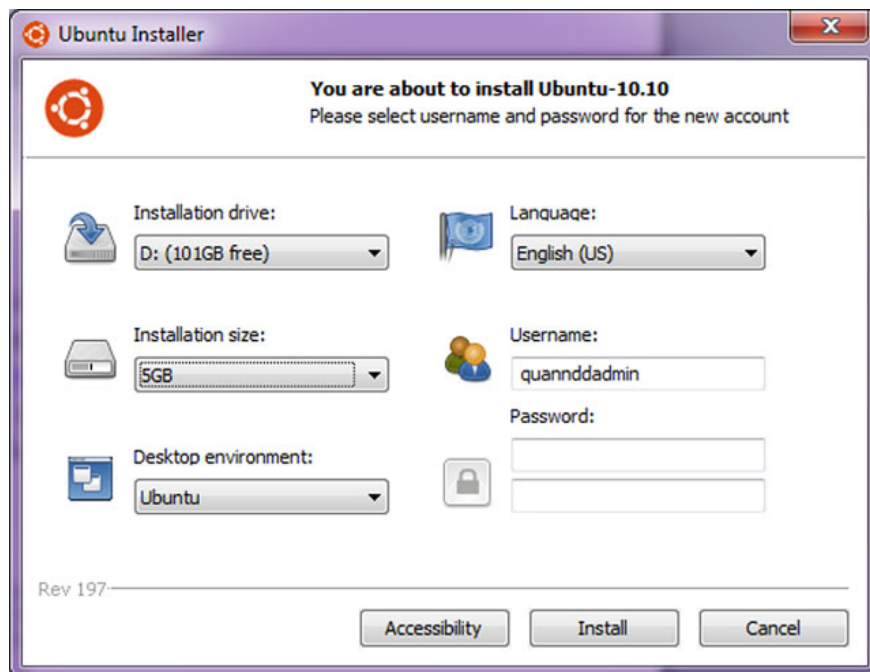
' *Prevention is better than cure* ', there are many articles that introduce readers to the best '*guards*' that can protect your computer against security threats; from free and paid anti-virus software to security software with full anti-virus, spyware, spam and firewall features. Many people believe that the system will be safer, better protected if multiple antivirus software is installed. However, this excessive protection is not good because of disputes between software when they gain control of the system. Besides, they also take up memory and

significantly affect system performance.

If using Windows 7, readers can take advantage of security features available such as **UAC** user control. **Windows Firewall** '2-way' **Windows Firewall** is more effective than outgoing data traffic as well as access to computers. **Windows Defender** or **Microsoft Security Essentials** , Microsoft's free security toolkit with good antispyware capabilities combined with web browser security features like phishing tampering, pop-up removal when surf the web.

Ubuntu Linux

Ubuntu is an open source free operating system based on the Linux kernel. While it's not comparable in popularity, in terms of user friendliness, simplicity and ease of use, Ubuntu is no less than Windows. You can refer to '12 reasons to try Ubuntu 10.10 now'. Another significant advantage is that Ubuntu (and Linux in general) is not targeted at viruses and malware. Thus, in addition to using Ubuntu in parallel with Windows, readers also have an effective tool to check when the system has a problem.



Ubuntu Installer supports installing Ubuntu directly in Windows.

First, you need to download the **Ubuntu 10.10** image file. Unzip the downloaded file with the utility of creating and editing image files (.iso) like IsoBuster, UltraISO and then launch the **wubi.exe** file to install. The installation process is also very simple, you just need to limit the installation partition depending on the free space of the hard drive, set up the user account and click Install. Restart the computer after installing, Windows Boot Manager will have Ubuntu boot options.

Next, install Ubuntu-compatible antivirus software like **ClamAV** . On the main screen interface, select **Applications** . **Ubuntu Software Center** . Click the **Edit** item . **Software Sources** and select the ' **Downloadable from the Internet** ' section, you need to check all 4 options before clicking **Close** . Go back to the **Ubuntu Software Center** window, select **Accessories** , type the keyword **ClamTK** into the search box. In

the list of anti-virus software, click **More Info** to check the information or click **Install** to install. The case of Windows operating system infected with viruses, malware. Start the system with Ubuntu, select **Applications . Accessories . Virus Scanner** to check.

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