**Linux GUI**

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**Discuss the primary advantages of GUI over a textual (command-line) interface in Linux system administration.**

The graphical user interface is a type of user interface that allows users to interact with electronic devices using graphical icons while the command line is a text interface for the computer. To put it in other ways A Graphic User Interface is a graphical representation in which the users can interact with the computer through graphical icons while a Command Line Interface is a text based representation in which the user types the commands to operate the computer.

**Advantage of GUI**

It's a program that takes in commands, which it passes on to the computer's operating system to run. For me I think GUI is more powerful than command line in many ways. What make GUI great is because it makes everything easy by laid them out in front of the user. In addition, it simplified the tasks because you don’t have to remember any command to do the work like print a document. Moreover, it works without prior knowledge of the system. A user interface which is well designed can be used by anyone without any problem. Moreover, the backend makes it powerful than command line because it takes a lot of code to build GUI. Most average Windows users probably don't even know a command line is there in most computer. Most applications with graphical user interfaces are good at doing most of the everyday life duty. It made it possible for computer users to employ visual elements, such as desktop icons, to navigate and operate software. Moreover, GUI interface is more attractive than command like. In addition, the users don’t have to remember a lot of commands like command line which can be a problem for most of them than make it a user-friendly.

**Advantages of command line.**

Command line on the other hand has advantages, it has a tool called LibreOffice which is good for letter writing. Moreover, the command line editor such as vi or emacs is better at doing the writing process. The LibreOffice Writer has a good WYSIWYG interface which provides great layout functions, the ability to add tables, images and links and the spelling checks of the document at the end. The Linux command line can help to use the apt command which is good for searching, installing, removing software and add new repositories with relative ease.

Despite the above mentioned about command line, GUI is the most used interface because it is easy to use, easy to learn by anyone and it is widely used by everybody in the world which its popularity is still growing. Moreover, most of the system are built with GUI and these will not go away anytime soon.

**Describe two (2) Linux desktop environments and explain how they generally function.**

Two desktop environments are GNOME and KDE. There are provided by Red Hat Enterprise Linux which is one of the distribute of linux. GNOME according to an article and I quote **“(**GNU) Network Object Model Environment, pronounced gah-NOHM) is a graphical user interface (GUI)and set of computer desktop applications for users of the Linux computer operating system.” It is a default desktop environment for Red Hat Enterprise Linux which is based on the GTK+ 2 graphical toolkits. While KDE is a desktop environment for Linux based operation system and itis an alternative desktop environment based on the Qt 3 graphical toolkit.

#### GNOME ‘s overview gives users an overview of current activities and provides a way to switch between windows and workspaces. KDE on the other hand work by giving users the abilities to choose desktop layouts because of the interfaces which are on a separate sub-system. This arrangement makes it easy to change the desktop layout.

**Recommend one (1) scenario or situation that demonstrates when each GUI system you described previously (two [2] total scenarios) would be most suitable to install.**

The best GUI system which would be situatable to install is GNUME because it makes a Linux operating system easy to use more especially for users who don’t have technical skills. It let users to select different desktop appearance. Moreover, it has a built-in window application like a word processor, a spreadsheet program, a database manager, a presentation developer, a Web browser, and an e-mail program. Therefore, I would recommend anybody to use it because of the above-mentioned points. KDE on the other hand will be suitable for providing its users a graphical interface to which make them choose their own customized desktop environment. KDE are suitable to be installed and run on any desktop environment. It is built to integrate well with the system's components. To make it work better, it can be done by using Plasma as well which can result in a better integration of the applications with the working environment while lowering system resource needs.

Both GNOME and KDE are suitable to be installed on a 1.5 GB of hard drive which can be done on a separate partition.

**Bibliography**

1. <https://www.lifewire.com/linux-gui-vs-command-line-2200166>
2. <https://alexiesjames04.wordpress.com/2013/02/21/advantages-and-disadvantages-of-gui-cli/>
3. <http://searchdatacenter.techtarget.com/definition/GNOME-GNU-Network-Object-Model-Environment>.
4. ftp://archive.download.redhat.com/pub/redhat/linux/7.3/en/doc/RH-DOCS/rhl-ig-x86-en-7.3/s1-steps-type.html