Tutorat O SSH und Putty

Organisatorisches



Organisatorisches Studienleistung

- Anmeldezeitraum 18.10.2021 -12.02.2022
- Anmelden zur Studienleistung in HISinOne
- Voraussetzung zur Anmeldung zur Studienleistung ist Anmeldung zur Übung in HISinOne
- 12 von 15 Übungsblättern sinnvoll bearbeitet
- Regelmäßige aktive Teilnahme an den Tutoraten
 - aber keine Anwesenheitspflicht!
 - Vorrechnen freiwillig
- \Rightarrow zeigt einfach, dass ihr bemüht seid 👍

Linux Überblick

Linux Überblick Linux Grunddaten

- Linus Torvalds + Unix → Linux
- Tux

Linux Überblick GNU+Linux 1 von 2

• "To be fair, I'd just like to interject for a moment. What you're referring to as Linux, is in fact, GNU/Linux, or as I've recently taken to calling it, GNU plus Linux. Linux is not an operating system unto itself, but rather another free component of a fully functioning GNU system made useful by the GNU corelibs, shell utilities and vital system components comprising a full OS as defined by POSIX. Many computer users run a modified version of the GNU system every day, without realizing it. Through a peculiar turn of events, the version of GNU which is widely used today is often called "Linux", and many of its users are not aware that it is basically the GNU system, developed by the GNU Project. There really is a Linux, and these people are using it, but it is just a part of the system they use. [...]

Linux Überblick GNU+Linux 2 von 2

• [...] Linux is the kernel: the program in the system that allocates the machine's resources to the other programs that you run. The kernel is an essential part of an operating system, but useless by itself; it can only function in the context of a complete operating system. Linux is normally used in combination with the GNU operating system: the whole system is basically GNU with Linux added, or GNU/Linux. All the so-called "Linux" distributions are really distributions of GNU/Linux."

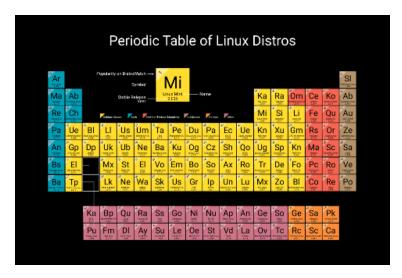
Linux Überblick Linux in Zahlen



https://netmarketshare.com/operating-system-market-share

Linux Überblick Begriffe 1 von 4

- Distributionen: Arch, Manjaro, Linux Mint, Ubuntu, NixOS, Debian
 - https://upload.wikimedia.org/wikipedia/commons/1/1b/Linux_Distribution_T imeline.svg



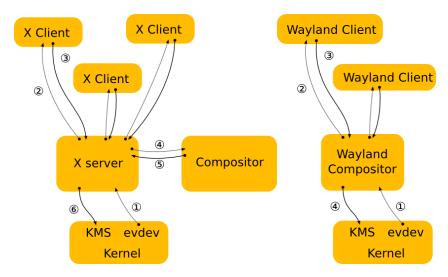
https://distrowatch.com/dwres.php?resource=family-tree

Linux Überblick Begriffe 2 von 4

- Desktopenvironment: KDE, Gnome, Cinnamon, XFCE, Deepin
 - Window manager: → Fenster managen
 - i3, dwm, Bspwm, KWin (KDE), Qtile, awesome
 - Stacking, Tiling, Dynamic window manager
- Terminal vs Terminal Emulator
 - Shell: Zsh, Bash, Fish, (Powershell, Batch → Windows)
- Package Manager: pacman, yay (AUR), apt, [...] sudo make install

Linux Überblick Begriffe 3 von 4

- X11: → Netzwerkprotokoll
 - Compositor → Eye-Candy's für Fenster, finaler Zeichenschritt
 - Picom (fork of Compton), Compiz xprop
- Wayland: → Display-Server-Protokoll



https://www.secjuice.com/wayland-vs-xorg/

Linux Überblick Begriffe 4 von 4

- Displaymanager: asdf, xinit
- GTK (Ixappereance) vs QT (qt5ct, kvantummanger)
- Initsystem: systemd, OpenRC
- Sudo, Doas
- Pulseaudio: pavucontrol (GTK and QT), pulsemixer (curses)
 - Alsa: alsamixer (alsa-utils package)

Vielen Dank für eure Aufmerksamkeit!

