# Lab 8

System and Package management

df Command:

## Syntax:

df [options]

## **Description:**

The df (disk free) command displays the amount of disk space available on the file system.

## **Example:**

df -h

du Command:

#### Syntax:

du [options] [file/dir]

### **Description:**

The du (disk usage) command estimates the file space usage of a directory and its contents.

## **Example:**

du -sh /home/momik/Pictures



dd Command:

#### Syntax:

dd [options]

#### **Description:**

The dd command is used to convert and copy files. It is often used for creating disk images and copying data from one disk to another.

## **Example:**

dd if=/dev/sda of=/dev/sdb bs=4M

## **Package Management**

#### Install a Package:

Command: sudo apt-get install [package-name]

#### **View Installed Packages:**

Command: dpkg --list or apt list -installed

#### **Upgrade Packages:**

Command: sudo apt-get upgrade

#### Remove a Package:

Command: sudo apt-get remove [package-name]

momik@pop-os: ~ Q ≡ n nomik@pop-os:~\$ dpkg --list Desired=Unknown/Install/Remove/Purge/Hold Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend 'Err?=(none)/Reinst-required (Status,Err: uppercase=bad) / Name Version ii accountsservice 22.07.5-2ubuntu1.3pop1~1675994188~2 ii acl 2.3.1 - 1ii acpi-support 0.144 ii acpid 1:2.0.33-1ubuntu1 ii adduser 3.118ubuntu5 ii adwaita-icon-theme 41.0-1ubuntu1 ii adwaita-icon-theme-full 41.0-1ubuntu1 ii alsa-base 1.0.25+dfsg-Oubuntu7 ii alsa-topology-conf 1.2.5.1-2ii alsa-ucm-conf 1.2.8-1pop1~1709769747~22.04~16ff97> ii alsa-utils 1.2.8-1pop1~1676755497~22.04~a0d6ee> amd-ppt-bin 1.0.0~1609862600~22.04~1b80593 amd64-microcode 3.20230808.1.1pop1~1691680164~22.04 2.4.52-1ubuntu4.11 apache2 ii apache2-bin 2.4.52-1ubuntu4.11 ii apache2-data 2.4.52-1ubuntu4.11 ii apache2-utils 2.4.52-1ubuntu4.11 2.2.3.dfsg.1-5build2 apg

momik@pop-os: ~ Q ≡ n momik@pop-os:~\$ sudo apt-get upgrade Reading package lists... Done Building dependency tree... Done Reading state information... Done Calculating upgrade... Done The following packages have been kept back: libapache2-mod-php8.1 libgd3 libnvidia-cfg1-550 libnvidia-common-550 libnvidia-compute-550 libnvidia-compute-550:i386 libnvidia-decode-550 libnvidia-decode-550:i386 libnvidia-encode-550 libnvidia-encode-550:i386 libnvidia-extra-550 libnvidia-fbc1-550 libnvidia-fbc1-550:i386 libnvidia-gl-550 libnvidia-gl-550:i386 nvidia-compute-utils-550 nvidia-dkms-550 nvidia-driver-525 nvidia-driver-550 nvidia-kernel-common-550 nvidia-kernel-source-550 nvidia-utils-550 php8.1-bcmath php8.1-cli php8.1-common php8.1-curl php8.1-gd php8.1-imap php8.1-mbstring php8.1-mysql php8.1-opcache php8.1-pgsql php8.1-readline php8.1-xml php8.1-zip xserver-xorg-video-nvidia-550 The following packages will be upgraded: apache2 apache2-bin apache2-data apache2-utils bind9-host bind9-libs discord firefox ghostscript ghostscript-x gir1.2-gtk-3.0 gtk-update-icon-cache gtk2-engines-pixbuf imagemagick imagemagick-6-common imagemagick-6.q16 libgail-common libgail18 libgs9 libgs9-common libgtk-3-0 libgtk-3-bin libgtk-3-common libgtk2.0-0 libgtk2.0-bin libgtk2.0-common libldap-2.5-0 libmagickcore-6.q16-6 libmagickcore-6.q16-6-extra libmagickwand-6.q16-6 libnvidia-egl-wayland1 libpcre2-16-0 libpcre2-32-0 libpcre2-8-0

momik@pop-os: ~ n momik@pop-os:~\$ sudo apt-get remove vim [sudo] password for momik: Reading package lists... Done Building dependency tree... Done Reading state information... Done The following package was automatically installed and is no longer required: vim-runtime Use 'sudo apt autoremove' to remove it. The following packages will be REMOVED: vim O upgraded, O newly installed, 1 to remove and 36 not upgraded. After this operation, 4,025 kB disk space will be freed. Do you want to continue? [Y/n] y (Reading database ... 225760 files and directories currently installed.) Removing vim (2:8.2.3995-1ubuntu2.17) ... update-alternatives: using /usr/bin/vim.tiny to provide /usr/bin/vi (vi) in auto mode update-alternatives: using /usr/bin/vim.tiny to provide /usr/bin/view (view) in auto mode update-alternatives: using /usr/bin/vim.tiny to provide /usr/bin/ex (ex) in auto mode update-alternatives: using /usr/bin/vim.tiny to provide /usr/bin/rview (rview) i n auto mode momikapop-os:~\$