

Install software

install from source code

- step 1: get code or download code
 - file format .tar and compress format .gz /.bz2 : GZIP / BZIP
- step 2: decompress and unarchive and untar
 - tar -xzvf <path/file name> } for tar and .gz
 - tar -xjvf <path/file name> } for tar and .bz2
- step 3: go to new directory mad
 - cd <directory path and name>
- step 4: read " Install " file located into directory
- step 5: configure installation policy
 - run ./configure or ./<script name> } file configure script and checking requirement
- step 6: compile code to binary
 - make } we need to move to the main package directory
 - gcc -v } gnu c compiler information
 - directory: /usr }
- step 7: Install app
 - make install
- step 8: run app
 - type app name and use switches

install from package

- RPM package .rpm (red hat base)
 - install :
 - rpm -ivh <rpm path> } just install
 - rpm -Uvh <rpm path> } update and install
 - rpm -Fvh <rpm path> } just update
 - DEB package .deb (debian base)
 - show info (query to package database)
 - rpm -qa | less } show all package in os
 - rpm -qa |grep -i <name> } search for app or package
 - rpm -e <app name> } erase package
 - rpm -qi <package name> } show all info about app
 - rpm -ql <package name> | less } show app directory and install location
 - rpm -qf <file-path> } show app version by give directory address
 - download source for package
 - rpmfind.net // rpm.pbone.net
- architecture is important : <app name and version> < architecture> .rpm // i386 :32bit //x86-64 :64bit and

automatic install

- yum install <app name> } auto download and install if repository server has this app
- /etc/yum.conf } linux yum configuration file
- /etc/yum.reposd.d } yum repository location for change it
- yum repolist } showing repository servers for us and update xml database
- yum search < package name> } search for package in repository servers
- yum info <package name> } show package information in repository server

Library management

- libraries directory /lib /lib64 /usr/lib } all libraries directory in linux
 - ldd <program path / binary path> } show required library for some program
 - ldconfig } rebuild cache file of library list or update info : /etc/ld.so.cache
 - ldconfig -p | less } show human readable of ld.so.cache (binary)
- share object

Kernel module

- /lib/modules } linux kernel module location : module for install device file and driver for hardware
 - lsmod } list currently loaded module
 - modinfo <module name> } show info of installed module
 - rmmod <module name> } remove or unload module from kernel
 - insmod <module path> } install or load module to kernel
 - modprobe <module name> } install or load module without directory path
 - depmod } create cache file of modules : modules.dep
- kernel object of micro kernel