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Part 1:

Step 1: open putty

Step 2: input IP address for BC linux servers

Step 3: input username and password (password will not show up in terminal)

Step 4: You’re in! it’s a Linux Server so you need to use Linux commands

Part 2:

Curl: transfers a URL, location: /usr/bin/curl

Transfers data to and from a server using supported protocols

Use: curl [options] [URL...]

Awk: pattern scanning and recognition location usr/bin/awk

What we have on the Linux server appears to be gawk, a GNU implementation of awk.

Use: gawk [ POSIX or GNU style options ] -f program-file [ -- ] file ...

gawk [ POSIX or GNU style options ] [ -- ] program-text file ...

pgawk [ POSIX or GNU style options ] -f program-file [ -- ] file ...

pgawk [ POSIX or GNU style options ] [ -- ] program-text file ...

dgawk [ POSIX or GNU style options ] -f program-file [ -- ] file ...

Guile: The GNU project extension language, location: /usr/bin/guile

It is a standalone compiler and run time for scheme programs.

Use: guile [DIRECTORY] [FILE] [FUNCTION] [\] [EXPR] [SCRIPT] [--] [SCRIPT [ARGs for SCRIPT]]

Ffmpeg: ffmpeg video converter Location: /usr/bin/ffmpeg

Video/audio converter, can grab live audio/video feeds, can convert audio sample rates and resize video

Use: ffmpeg [global\_options] {[input\_file\_options] -i input\_url} ... {[output\_file\_options] output\_url} ...

Emacs: GNU project emacs Location: usr/bin/emacs

The GNU version of Emacs, a text editor

Use: emacs [ command-line switches ] [ files ... ]

Gzip: A program to zip/unzip (compress/uncompress) files Location /usr/bin/gzip

Zips a file using the extension .gz (.z for Mac/Windows systems) keeps the same ownership modes and modification times

Use: gzip [ -acdfhlLnNrtvV19 ] [-S suffix] [ name ... ]

gunzip [ -acfhlLnNrtvV ] [-S suffix] [ name ... ]

zcat [ -fhLV ] [ name ... ]

Head: outputs the first part of a file, Location: /usr/bin/head

By default prints the first 10 lines of a file to standard output, can be changed with arguments for how many bytes/lines are read

Use: head [OPTION]... [FILE]...

Convert: image editing software to change formats as well as crop, blur and a variety of other options, Location: /usr/bin/head

Use: convert [input-option] input-file [output-option] output-file

Wget: Non-interactive network downloader Location: /usr/bin/wget

Non-interactive downloader to download files from the internet

Use: wget [option]... [URL]...

Java: Launches a java application. location: /usr/bin/java

Use: java [options] classname [args]

java [options] -jar filename [args]

Gimp: an image manipulation and paint program Location: /usr/bin/gimp

Short for GNU image manipulation program, it allows you to edit images and can convert between different image formats. It can also be used as a paint application.

Use: gimp [-h] [--help] [--help-all] [--help-gtk] [-v] [--version] [--license] [--verbose] [-n] [--new-instance] [-a] [--as-new] [-i] [--no-interface] [-d] [--no-data] [-f] [--no-fonts] [-s] [--no-splash] [--no-shm] [--no-cpu-accel] [--display display] [--session <name>] [-g] [--gimprc <gimprc>] [--system-gimprc <gimprc>] [--dump-gimprc] [--console-messages] [--debug-handlers] [--stack-trace-mode <mode>] [--pdb-compat-mode <mode>] [--batch-interpreter <procedure>] [-b] [--batch <command>] [filename] ...

Vim: a text editor made with programmers in mind Location: /usr/bin/vim

Text editor that can edit any text but is very useful for editing programs

Use: vim [options] [file ..]

vim [options] -

vim [options] -t tag

vim [options] -q [errorfile]

Mysql: The mysql command line tool Location: /usr/bin/mysql

An sql shell with GNU readline capabilities used to manage databases

Use: mysql [options] db\_name

Zip: packages and compresses files Location: /usr/bin/zip

This program ONLY COMPRESSES FILES! You require its companion program unzip to uncompress a file compressed through zip.

Use: zip [-aABcdDeEfFghjklLmoqrRSTuvVwXyz!@$] [--longoption ...] [-b path] [-n suffixes] [-t date] [-tt date] [zipfile [file ...]] [-xi list]

Tail: outputs the last part of a file Location: /usr/bin/tail

Prints the last 10 lines of a program, basically like head, but for the last lines of a program

Use: tail [OPTION]... [FILE]...

Subversion: I cannot seem to find anything about it on CUNY Linux Server other than Location: /etc/subversion

Git: “The Stupid Content Tracker” Location: /usr/bin/git

A distributed version control system with a command set with high level operations and full access to internals

Use: git [--version] [--help] [-c <name>=<value>] [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path] [-p|--paginate|--no-pager] [--no-replace-objects] [--bare] [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>] <command> [<args>]

IMPORTANT COMMANDS FOR GIT:

Git-clone: clones a repo

Git-commit: records the changes to the repo

Git-init: creates or clears out a repo

Git-push: updates remote ref with associated objects

Git-pull: fetch and merge with another repo/branch

Inkscape: a scalable vector graphics editing system Location: /usr/bin/inkscape

A GUI editor for SVG format file capable of making versetile shapes, Bezier paths freehand drawing and more

Use: inkscape [options] [filename ...]

Nano: a better free Pico clone Location: /usr/bin/nano

A small text editor meant to replacethe non-free pico editor while also including missing options like search and replace and more.

Use: nano [OPTIONS] [[+LINE,COLUMN] FILE]...

Sqlite: No entry or location found (might not be on cuny servers)

Make: a utility meant to maintain groups of programs Location: /usr/bin/make

It is meant to determine which parts of a large program need to be recompiled, if necessary. Requires a file called a makefile that says the relationships between each file and how to update them.

Use: make [ -f makefile ] [ options ] ... [ targets ] ...

Libreoffice: the libreoffice office suite location: usr/bin/libreoffice

An office productivity suite that basically acts like a shell and funnels commands to the soffice.bin binary

Use: libreoffice [--accept=accept-string] [--base] [--calc] [--convert-to output\_file\_extension[:output\_filter\_name] [--outdir output\_dir] file]... [--display display] [--draw] [--global] [--headless] [--help|-h|-?] [--impress] [--invisible] [--infilter="<filter>"] [--math] [--minimized] [-n file]... [--nodefault] [--nolockcheck] [--nologo] [--norestore] [-o file]... [-p file...] [--print-to-file [--printer-name printer\_name] [--outdir output\_dir] file]... [--pt printername file...] [--show Impress file]... [--unaccept=accept-string] [--terminate\_after\_init] [--view file]... [--web] [--writer] [file...]