

Discussion 1

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Testing homework on csif machines

- To login to that computer:
 - ssh <uc-davis-login>@pc##.cs.ucdavis.edu
- To send a file to that computer
 - scp file.c <uc-davis-login>@pc##.cs.ucdavis.edu:~/Documents
- On Windows, use "powershell"

🔰 OpenSSH SSH client

PS C:\Users\Matt> ssh mjlyons7@pc23.cs.ucdavis.edu The authenticity of host 'pc23.cs.ucdavis.edu (128.120.211.90)' can't be established. ECDSA key fingerprint is SHA256:vobE1yTB21LLfPGQnXSB7I+xWsyKvty8R2wcglfzgy4. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added 'pc23.cs.ucdavis.edu,128.120.211.90' (ECDSA) to the list of known hosts. mjlyons7@pc23.cs.ucdavis.edu's password: Permission denied, please try again. mjlyons7@pc23.cs.ucdavis.edu's password:

Computer Science Instructional Facility Ubuntu 18.04.3 LTS

Hostname:pc23Date:Wed Oct213:39:32PDT2019System Load:0.04IP Address:Memory Usage:4.9%System Uptime:8:39 hoursUsage On /:7%Swap Usage:0.0%Local Users:1Processes:259

* 09/17/2018 - home directories have been migrated to new space, to get your archived home directory, please see: http:/ /ssg.cs.ucdavis.edu/news/csifnewhome

X

Last login: Wed Oct 2 13:09:40 2019 from 168.150.19.83 mjlyons7@ad3.ucdavis.edu@pc23:~\$ _

Compile

- gcc -o test -ansi -pedantic -Wall test.c
- To run:
 - ./test

Unix Commands - navigate

- cd Change directory
 - Special directories: . , . . , ~
- pwd Print working directory
- mkdir Make a directory
- rmdir Remove a directory
- mv Move a file (like cut and paste)
- cp Copy a file (copy and paste)

Unix commands – printing files

- cat Concatenate (shows all file lines on screen)
- head Start (head) of file (default 10)
- tail See end of file (last 10 lines)

Unix commands – manipulate files

- touch create a file, or if it's already created, update it's last edited time.
- rm remove (delete)
- In -s create link to file
 - Use -s argument for "symbolic" (similar to shortcut on Windows)
- diff see the difference between two files

- chmod change file permissions
- Order is user, group, other
- "rw-r--r-"
 - User has read and write, group and other have read permission.
- chmod 744 script.sh to make it runable for user
 - Becomes "rwxr--r--", notice the 'x' that appears, means "executable"

- ps list processes running
- kill <process_id> terminate a process
- bg move process to the background
- fg move process to the foreground

- >> to redirect output
- * wildcard character

• alias – assign a name

- .bashrc runs whenever we start terminal
 - Located in your home directory.
 - Use "Is -a" to see it.
 - Can append commands to this file that we want to run as soon as shell starts.