**PART A.** chroot

Run the commands to do the following:

1. Create a new directory named “new-root”.
2. Determine all dependencies for bash and copy them under “new-root”.
3. chroot to “new-root”. Show that the command bash works by calling bash.
4. Check if cd, cd . , pwd, and less can be run in this bash.

You must submit a shell script with the commands used in (i)-(iv). In a Word document, answer the following: Which of the commands in (iv) ran and why?

1. mkdir new-root
2. ldd /bin/bash,

mkdir bin lib

cp /bin/bash /home/ubuntu/new-root/bin/

sudo cp /lib/x86\_64-linux-gnu/libtinfo.so.5 /home/ubuntu/new-root/lib

sudo cp /lib/x86\_64-linux-gnu/libdl.so.2 /home/ubuntu/new-root/lib

sudo cp /lib/x86\_64-linux-gnu/libc.so.6 /home/ubuntu/new-root/lib

sudo cp /lib64/ld-linux-x86-64.so.2 /home/ubuntu/new-root/lib

1. sudo chroot /home/ubuntu/new-root /bin/bash
2. cd : bash: cd: /home/ubuntu: No such file or directory

cd . can be run in bash

pwd can be run in bash return /

less can’t be run : return bash: less: command not found

**PART B.** Breaking the jail.

Write a program to break the jail. The program must do the following steps in order:

1. chroot into the “new-root” directory.
2. chdir into a relative path outside the jail, such as “../../../”
3. chroot to the current directory,
4. exec /bin/bash -i

Submit your program. In a Word document, answer the following: Were you able to break out of the jail?

Note: chroot is listed in <unistd.h>

ANS:

#include <sys/types.h>

#include <sys/stat.h>

#include <fcntl.h>

#include <unistd.h>

int main(){

chroot("./new-root");

chdir("../../../");

chroot(".");

execl("/bin/bash", "/bin/bash", NULL);

}

Yes, we’re able to break out of the jail.

**PART C.** Namespaces

Download container.c from D2L. The file has some comments. The objective is to write code and fill in the comments.

1. Set the flags: Currently the flags variable is only set to SIGCHLD. Set the flag variable to include all namespace flags: network namespace, UTS namespace, IPC namespace, PID namespace, mount namespace, user namespace.
2. Code the exec function for child. In particular mount /proc, set a new hostname, create a message queue with key = 0, and execute a given command (Note args can send the command). Remember the library functions mount, sethostname, msgget, execvp

The above sets a basic container functionality. Test your code works fine by compiling and running container.c. Assuming your executable is called ‘container’ check your container runs fine by running:

$ ./container ip a

$ ./container ps aux

$ ./container whoami

1. Communicate with the child: Currently in container.c all that is passed to the child is the command that the child must run (See clone passes &argv[1]). Communicate with the child by passing more information such as the amount of memory it will use, cpu\_percent, and additional mount point.

To pass multiple pieces of information, you will need to set up a data structure that will read in this information from command line, set it up and then pass to the child as a clone argument.

A skeleton of that data structure:

struct params {

<datatype> \* cmd; //for additional mount point

<datatype> \*\*argv;

<datatype> cpu\_pct;

<datatype> mem\_limit;

<int> num\_levels;

};

We will use this data structure to communicate later for setting up cgroups. Currently, just make your child aware of this data structure=> print the values of mount point, cpu\_pct, mem\_limit, arggv, num\_levels, (passed as command-line arguments) within the child.

Bonus: The num\_levels is used to compose num\_levels number of namespaces within the namespace. See sample program multi\_pidns.c

1. Set up multiple namespaces

In #3. You setup one single namespace. Now use a command-line argument, such as num\_namespaces to set up multiple such namespaces.

**PART D.** Download cinf from D2L. Run the following commands:

sudo mv cinf /usr/local/bin

$ sudo chmod +x /usr/local/bin/cinf

1. The run

sudo cinf

Explain the output. Take a sample row, and describe from which system file and/or variable in system file, each column value is being obtained. For example you should describe your answer as follows:

NAMESPACE … the namespace ID … file from which this value is being read.

TYPE … the type of namespace…file from which this value is being read,

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOS9leWHr+WQmwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADOTQAAJKSAAIAAAADOTQAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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NAMESPACE TYPE NPROCS USERS CMD

4026531838 uts 117 0,1,100,104,107,1000 /sbin/init

NAMESPACE 4026531838 Namespace ID

TYPE uts type of namespace

NPROCS 117 number of processes in the name space

USERS userID of running this process

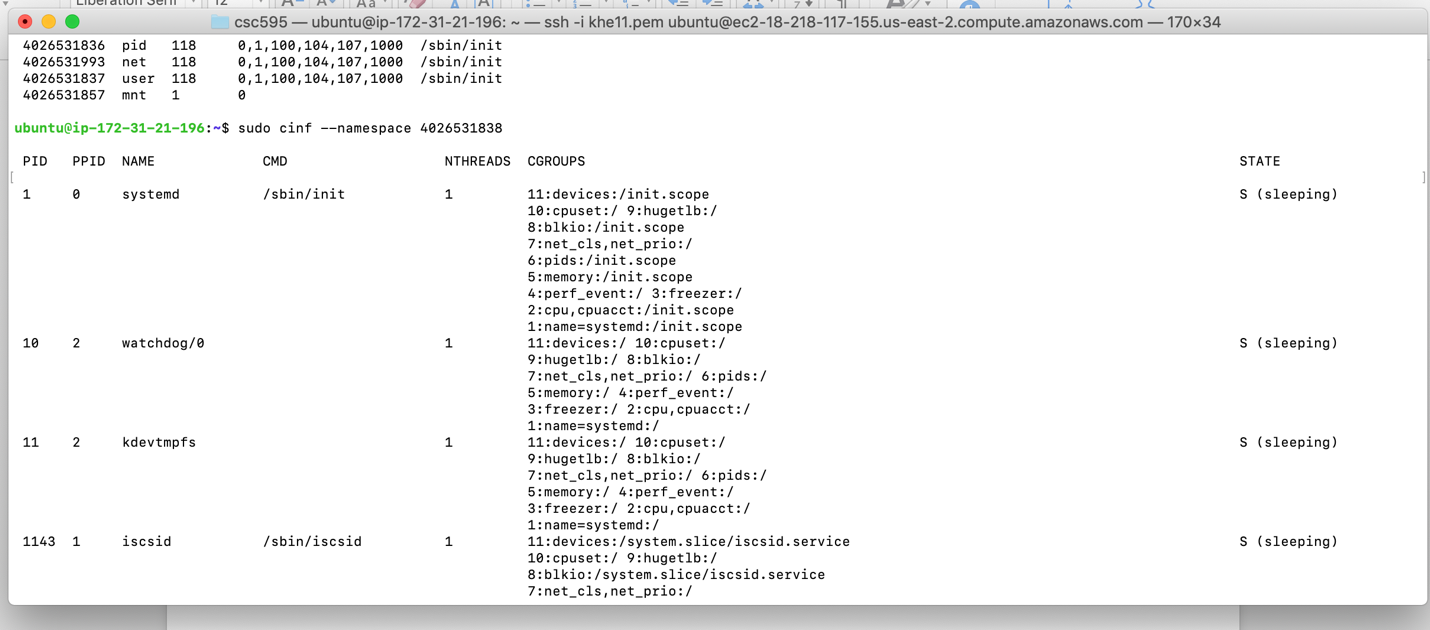
CMD /sbin/init command line

It’s directly read from /proc

1. Dig further into a namespace as follows:

sudo cinf –-namespace <nsid>

Explain the output. Take a sample row, and describe from which system file and/or variable in system file, each column value is being obtained.

ANS:

ANS: for example the first row as output

PID is process ID,

PPID is process ID of parent.

NAME: process name:

CMD : process CMD Line

NTHREADS: number of threads

CGROUPS: summary of attached group

State: process state.

**It’s from the /proc/1/status file**

1. Dig into a process as follows:

sudo cinf –-pid <PID>

Explain the output. Take a sample row, and describe from which system file and/or variable in system file, each column value is being obtained.



ANS

NAMESPACE TYPE

4026531840 mnt

NAMESPACE Namespace ID

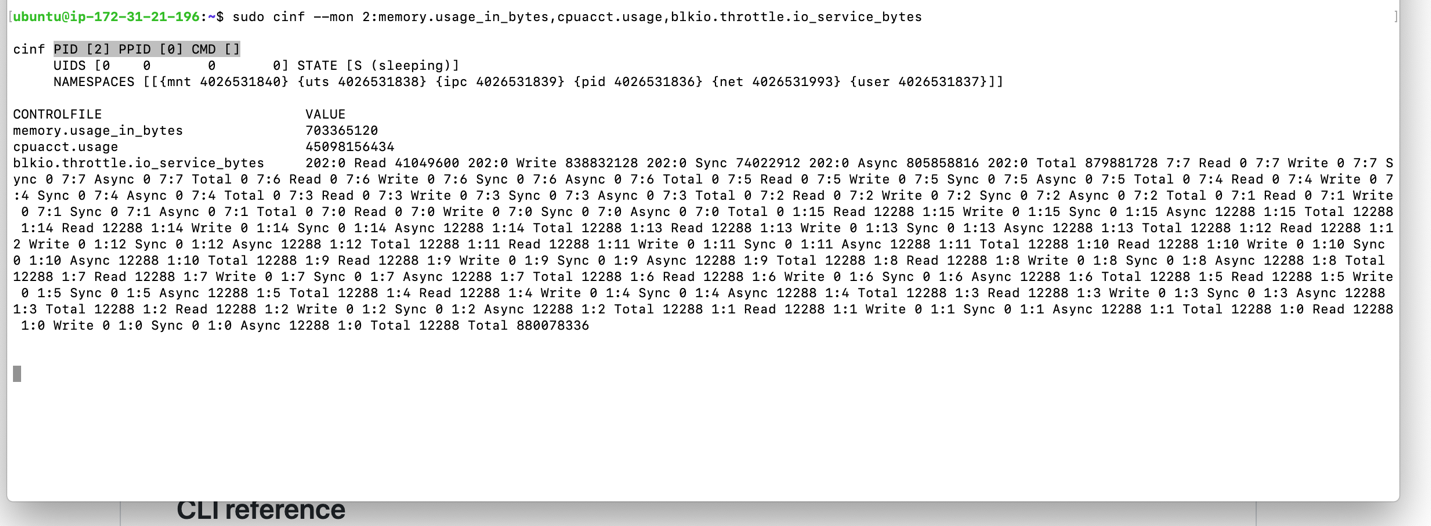
TYPE. Type of Namespace

It’s all read from /proc

1. Finally, monitor a process as follows:

sudo cinf --mon <PID>:memory.usage\_in\_bytes,cpuacct.usage,blkio.throttle.io\_service\_bytes

Explain the output. Take a sample row, and describe from which system file and/or variable in system file, each column value is being obtained.



This output is using to monitor control file :memory.usage\_in\_bytes,cpuacct.usage,blkio.throttle.io\_service\_bytes

For the process pid 2.

Memory.usage\_in\_bytes from /cgroup/2/memory.usage\_in\_bytes

Blkio.throttle.io\_service\_bytes from /cgroup/blkio/2/blkio.throttle.io\_service\_bytes

Cpuacct.usage. from /cgroup/capuacct/cpuacct.usage.

**PART E.** Set up cgroups

In Part C you set up multiple levels of container and multiple namespaces.

In class we saw how a single container’s cpu pct can be limited by writing to cgroups files. Read and understand programs cpu100.c and cgd.c on D2L.

The objective of this part is to equally distribute cpu\_pct and mem\_limit (taken as inputs from user) into *n* containers, where n is the number of multiple namespaces created in Part C #4.