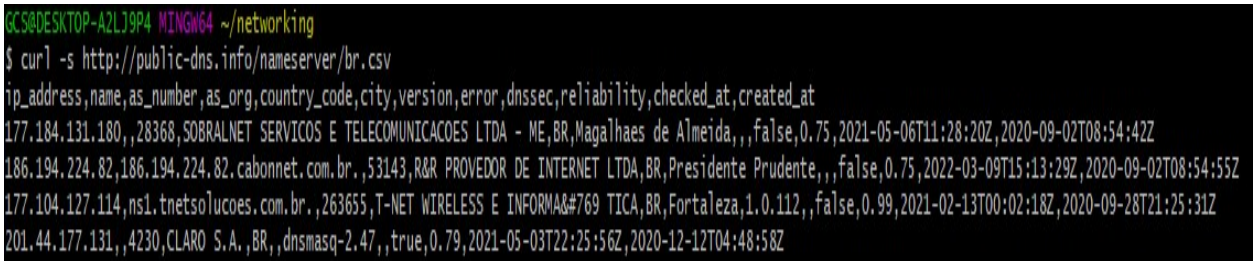
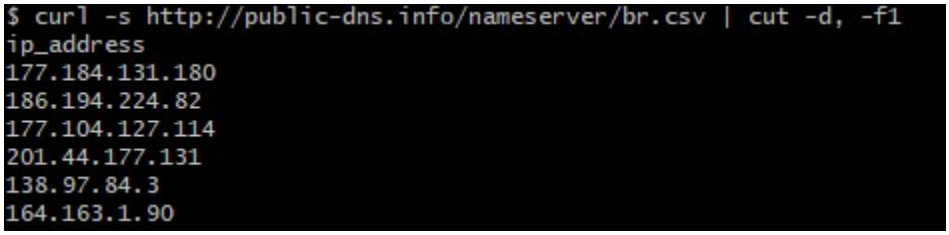
Linux assignment

1. curl -s http://public-dns.info/nameserver/br.csv



It show the content details of the link like ip address, name, as_number and so on.
-s, --silent -> doesn't show progress meter, executes the curl command silent or quiet mode.
a, --append -> when used in upload, curl appends to the target file instead of overwriting it.
--basic -> tells curl to use HTTP authentication to connect with the remote host.
-K -> reads the curl arguments from a text file, as if they were provided on command line
-F --form -> lets curl send a POST data using the Content-Type multipart/form-data
-# -> makes curl to display the progress bar

2. curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1

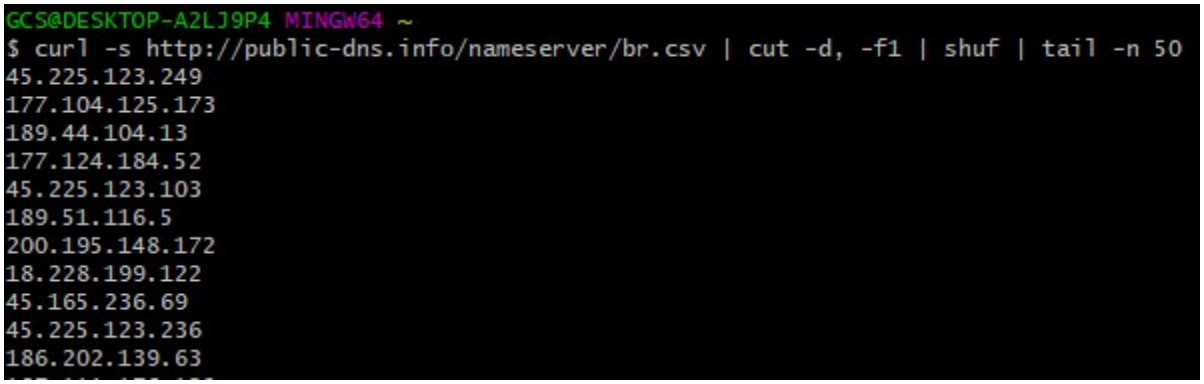


It show the first coloum or till first delimiter of the link file content.

3. curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1 | shuf

The shuf command writes a random permutation of the input lines to standard output.

4. curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1 | shuf | tail -n 50



Tail –n 50 will print last 50 row.

-c : prints last n bytes

-q : it is used to print two file. Head of second file will be on tail of first file.

-v : in this the file name is file print then the work is proceed.

-f : used by administration to monitor.

5. curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1 | tail -n 50 | xargs -i timeout 1 ping -c1 -w 1 {}

```
$ curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1 | tail -n 50 | xargs -i timeout 1 ping -c1 -w 1  {}
Bad parameter 177.55.207.38.
Bad parameter 200.98.80.7.
Bad parameter 45.225.123.199.
Bad parameter 45.225.123.198.
Bad parameter 45.225.123.161.
Bad parameter 45.225.123.28.
Bad parameter 45.225.123.101.
Bad parameter 45.225.123.103.
Bad parameter 45.225.123.110.
Bad parameter 45.225.123.119.
Bad parameter 45.225.123.120.
```

Xargs take input and –i used to replace it with {}.

The **ping** command determining the status of the network and various foreign hosts, tracking and isolating hardware and software problems, and testing, measuring, and managing networks.

-c - Specifies the number of packets.

6. $ curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1 | tail -n 50 | grep "225"

```
$ curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1 | tail -n 50 | grep "225"
45.225.123.199
45.225.123.198
45.225.123.161
45.225.123.28
45.225.123.101
45.225.123.103
```

Grep command used to match the input string with given data and print the output . In above example the output will be that which have “225” string

7. curl -s http://public-dns.info/nameserver/br.csv | awk '{print substr($7, 6, length($7)) " " substr($4, 1, length($4) -1)}'

```
$ curl -s http://public-dns.info/nameserver/br.csv | awk '{print substr($7, 6, length($7)) " " substr($4, 1, length($4) -1)}'

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awk command is manipulating the data and generate report.
And print 7th column 6th letter till 7th coloumn length and add space and print 4th column from 1th line to till 4th column length -1.

8. $ curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1 | sort –n

```
$ curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1 | sort -n
ip_address
18.228.121.109
18.228.199.122
18.229.117.217
35.198.23.47
35.247.214.247
```

sort command used to sort the input alphanumarically.

9. $ curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1 | head -n 10

```
$ curl -s http://public-dns.info/nameserver/br.csv | cut -d, -f1 | head -n 10
ip_address
177.184.131.180
186.194.224.82
177.104.127.114
201.44.177.131
138.97.84.3
164.163.1.90
```

head –n 10 will print first 10 row.

10. curl -s http://public-dns.info/nameserver/br.csv | awk '{print $2 " " $1 "ms" }'

```
$ curl -s http://public-dns.info/nameserver/br.csv | awk '{print $2 " " $1 "ms" }'
 ip_address,name,as_number,as_org,country_code,city,version,error,dnssec,reliability,checked_at,created_atms
SERVICOS 177.184.131.180,,28368,SOBRALNETms
PROVEDOR 186.194.224.82,186.194.224.82.cabonnet.com.br.,53143,R&Rms
WIRELESS 177.104.127.114,ns1.tnetsolucoes.com.br.,263655,T-NETms
S.A.,BR,,dnsmasq-2.47,,true,0.79,2021-05-03T22:25:56Z,2020-12-12T04:48:58Z 201.44.177.131,,4230,CLAROms
COMUNICACOES 138.97.84.3,ns2.interles.net.br.,264138,INTERLESms
servicos 164.163.1.90,mx.bhotelbrasilia.com.br.,265933,connectxms
```

The output will be first come 1 single space data till 2nd space and then print 1st coloumn till space and add ms