

Linux and Curl: How to use Bash to Read a File Line by Line and Execute Curl command to get HTTP Response Code

 crunchify.com/linux-and-curl-how-to-use-bash-to-read-a-file-line-by-line-and-execute-curl-command-to-get-http-result/

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Short link:

Last Updated on *May 10th, 2016* by



```
bash-3.2$ for URL in `cat crunchify.txt`; do echo $URL; curl -m 10 -s -I $1 "$URL" | grep HTTP/1.1 | awk {'print $2'}; done
http://crunchify.com
200
http://google.com
301
https://www.facebook.com
200
http://crunfy.me
405
http://crunchify.com:8080
bash-3.2$
```

Use Bash to Read a File Line by Line and Execute Curl command to get HTTP Result

Linux Curl command is very amazing. It's very simple command which is use to **send or get** data from and to any server. Server would be any server like end point URL, ftp endpoint, etc.

In this tutorial we will go over how to read file line by line and then perform curl operation to get **HTTP response** code for each HTTP URL.

Flow would look like this:

1. Create file **crunchify.txt**
2. Add 5 URLs including **http://** as part of URL
3. Create **curl command** and **read** crunchify.txt file
4. Perform **curl operation** to get HTTP response code
5. **Print** HTTP Response code

Let's get started:

Step-1

Go to **Mac Terminal** if you are running this script on Macbook or open **bash shell** on Linux/Unix terminal

Step-2

- Go to **~/Downloads/**
- Create file **crunchify.txt**

vi crunchify.txt to create

- Put below URLs into file and **save file** using command **file** and
:wq to save
file

crunchify.txt

```
1 http://crunchify.com
2 http://google.com
3 https://www.facebook.com
4 http://crunfy.me
5 http://crunchify.com:8080
```

Step-3

Execute below command to get result.

```
1 for URL in `cat crunchify.txt`; do echo $URL; curl -m 10 -s -I $1 "$URL" | grep HTTP/1.1 | awk {'print $2'}; done
```

- **-m**: Maximum time in seconds that you allow the whole operation to take. This is useful for preventing your batch jobs from hanging for hours due to any **network issue**
- **-s**: show **error message**
- **-I**: Show document info only
- **awk**: matches the pattern and prints result

Result:

Output

```
1 bash-3.2$ for URL in `cat crunchify.txt`; do echo $URL; curl -m 10 -s -I $1 "$URL" | grep HTTP/1.1 | awk {'print $2'}; done
2 http://crunchify.com
3 200
4 http://google.com
5 301
6 https://www.facebook.com
7 200
8 http://crunfy.me
9 405
10 http://crunchify.com:8080
```

If you want to see detailed result and response just try adding `-v` into `curl` and you will see detailed verbose result in command prompt. Here is an `updated command`.

```
1 for URL in `cat crunchify.txt`; do echo $URL; curl -v -m 10 -s -I $1 "$URL" | grep HTTP/1.1 | awk {'print $2'}; done
```

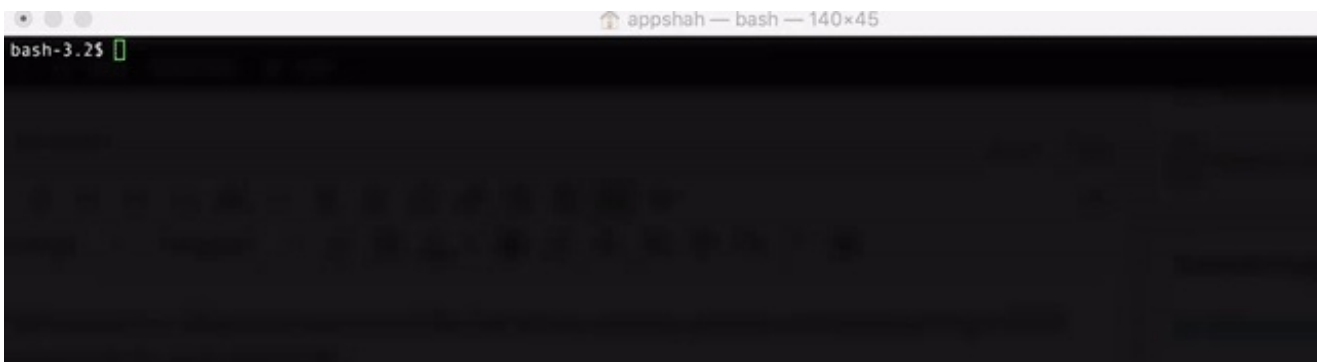
```
http://google.com
* Rebuilt URL to: http://google.com/
* Trying 216.58.194.174...
* Connected to google.com (216.58.194.174) port 80 (#0)
> HEAD / HTTP/1.1
> Host: google.com
> User-Agent: curl/7.43.0
> Accept: */*
>
< HTTP/1.1 301 Moved Permanently
< Location: http://www.google.com/
< Content-Type: text/html; charset=UTF-8
< Date: Tue, 10 May 2016 15:25:20 GMT
< Expires: Thu, 09 Jun 2016 15:25:20 GMT
< Cache-Control: public, max-age=2592000
< Server: gws
< Content-Length: 219
< X-XSS-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
<
* Connection #0 to host google.com left intact
301
```

Why 301 for http://google.com

This is what we are printing

crunchify.com

And that's it, above command will print `HTTP response` code for each URL.



Above command and tutorial works well if you have any of below questions too:

- Use bash to read a file and then execute a command
- [Run a command](#) on each line in a file
- bash – Execute a command once per line of piped input?

- HowTo : Read a file [Line By Line](#)
- Shell Script to execute a command on every line of a file

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About App Shah

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