

Step 1. Install python on ubuntu

- `sudo apt-get update`

```
ubuntu@ip-172-31-41-2:~$ sudo apt-get update
Hit:1 http://ap-northeast-3.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-northeast-3.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [89.7 kB]
Hit:3 http://ap-northeast-3.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:4 http://ap-northeast-3.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [31.7 kB]
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Fetched 121 kB in 1s (165 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-41-2:~$
```

- `sudo apt-get install python3.6`

```
ubuntu@ip-172-31-41-2:~$ sudo apt-get install python3.6
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'libpython3.6-stdlib' for regex 'python3.6'
Note, selecting 'python3.6-2to3' for regex 'python3.6'
0 upgraded, 0 newly installed, 0 to remove and 4 not upgraded.
ubuntu@ip-172-31-41-2:~$
```

Step 2. Check the installed python version using below command-:

- `python3 --version`

```
ubuntu@ip-172-31-41-2:~$ python3 --version
Python 3.12.3
ubuntu@ip-172-31-41-2:~$
```

Step 3. Create a file (subdomain.txt) which contains all the subdomains of google.com

Refer the file from this link:

https://github.com/sonalbatch5/devops_assignment/blob/main/network_assignment/question2/subdomain.txt

Step 4. Create a python script that will send GET request to each subdomain written in the subdomain.txt file and check the response of the GET request.

Based on the status code, the script will set the status of subdomains as "UP" or "DOWN".

```
response = requests.get("http://" + subdomain)  
if response.status_code == 200:  
    status = "UP"  
  
else:  
    status = "DOWN"
```

For full code, please refer to the link:

https://github.com/sonalbatch5/devops_assignment/blob/main/network_assignment/question2/question2.py

Step 5. Run the python script as `python3 assignment_2.py`. The script will print the below response in every minute:

Subdomain	Status	Current Time (IST) 2024-05-17 11:44:49

ads.google.com	UP	
adsense.google.com	UP	
analytics.google.com	UP	
apps.google.com	UP	
artsandculture.google.com	UP	
books.google.com	UP	
calendar.google.com	UP	
chat.google.com	UP	
chrome.google.com	UP	
cloud.google.com	UP	
code.google.com	UP	
contacts.google.com	UP	
crowdsourcing.google.com	UP	
datacompute.google.com	DOWN	
developers.google.com	UP	
docs.google.com	UP	
drive.google.com	UP	
duo.google.com	UP	
earth.google.com	UP	
edu.google.com	UP	
files.google.com	UP	
finance.google.com	UP	
firebase.google.com	UP	
fonts.google.com	UP	
fonts.googleapis.com	DOWN	
groups.google.com	UP	
hangouts.google.com	UP	
images.google.com	UP	
lens.google.com	UP	
mail.google.com	UP	
maps.google.com	UP	
meet.google.com	UP	
news.google.com	UP	
one.google.com	UP	
opensource.google.com	UP	
photos.google.com	UP	
picasa.google.com	UP	
play.google.com	UP	
podcasts.google.com	UP	
scholar.google.com	UP	
search.google.com	UP	

For full output please refer below link-:

https://github.com/sonalbatch5/devops_assignment/blob/main/network_assignment/question2/output.txt