**Section A:  System Administrator Questions**

**1.    In the Linux system, what is the correlation between, hdd out of space and socket file ?**

**Why we cannot perform a connection if our harddrive space is running out.**

Socket files will gather some harddisk or storage when it’s used to make connection, so if the storage is full, the socket file can’t be filled with the content of the file and it makes the file can’t do a connection

1. **How to whitelist user on ssh login, without removing their public key on the servers ?**

copy the current public key into safe place then restore and register the key for the user after the user is being whitelist

3.   **My lead ask me to check uptime in 200 server, it is really takes time if i have to ssh into every server and run the uptime command.**

**Write ansible adhoc command to solve this, just adhoc command, no need use playbook.**

**And your ansible inventory is ready.**

Assumption: only to check the uptime

code :

ansible all -m ping

ansible multi -m command -a uptime

1. **What is the first step you do if you want to generate SSL certificate ?**

**Create self signed key, the example command is :**

openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout /etc/ssl/private/apache-selfsigned.key -out /etc/ssl/certs/apache-selfsigned.crt

5.  **I have a web page,**

**[https://www.sehatq.com/abc/def](https://www.sehatq.com/abc/def" \t "/home/alvin/Documents\\x/_blank)**

**My boss want me to redirect to page to /**

**How to do this on NGINX web server ? create the NGINX rewrite rules for this case.**

Assumption :

* Because of the service is not known, i only have to do a rewrite on URL.
* The URL must be accessed on HTTPS mode
* Because of the default link is [https://www.sehatq.com/abc/def](https://www.sehatq.com/abc/def" \t "/home/alvin/Documents\\x/_blank)

so the default service is pointing into default link and reverse proxy is needed

Code :

server {

listen 80;

listen [::]:80;

server name www.sehatq.com/abc/def sehatq.com/abc/def;

return 301 https://sehatq.com$request\_uri;

}

server {

listen 443 ssl http2;

listen [::]:443 ssl http2;

server\_name www.sehatq.com/abc/def

# SSL

ssl\_certificate ;

ssl\_certificate\_key ;

access\_log /var/log/nginx/reverse-access.log;

error\_log /var/log/nginx/reverse-error.log;

location / {

proxy\_pass https://www.sehatq.com;

}

}

1. **One of QA engineer got an issue when uploading a file to our backend, she got 413 error codes. What is the meaning of those HTTP code and how to solve it on NGINX configuration ?**

413 error means there are some limitation at file sizes. We can resolve it by set or increase the max body size using client\_max\_body\_size script on NGINX configuration

1. **What is the meaning of the orphan process ? How does that happen ?**

Orphan process is a process without it’s parent process, or we also can say that a process whose parent process is no longer existed. It can be happen because of someone or any script kill the parent process