Module 1 Assignment

Problem Statement:

You are assigned a task to install a web server, in order to control multiple worker processes from one master process. After you've done your research you found out that NGINX is the best suitable option in this scenario. Update the host system and install NGINX. Check the version installed.

This will update the list of available packages and their versions, then upgrade the currently installed packages to their latest versions.

```
sudo apt update && sudo apt upgrade -y
```

```
vagrant@ubuntu-bionic:~$ sudo apt update && sudo apt upgrade -y
Get:1 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Hit:2 http://archive.ubuntu.com/ubuntu bionic InRelease
Get:3 http://archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:4 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [2717 kB]
Get:5 http://archive.ubuntu.com/ubuntu bionic-backports InRelease [83.3 kB]
Get:6 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [467 kB]
Get:7 http://archive.ubuntu.com/ubuntu bionic/universe amd64 Packages [8570 kB]
Get:8 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [1317 kB]
Get:9 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [182 kB]
Get:10 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [182 kB]
```

We install NGINX using the package manager:

```
sudo apt install nginx -y
```

```
vagrant@ubuntu-bionic:~$ sudo apt install nginx -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
    fontconfig-config fonts-dejavu-core libfontconfig1 libgd3 libjbig0 libjpeg-turbo8 libjpeg8 libnginx-mod-http-geoip
    libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libtiff5 libwebp6 libxpm4
    nginx-common nginx-core
Suggested packages:
    libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
```

After installation, starting the NGINX service:

```
sudo systemctl start nginx
```

Ensure that NGINX starts automatically at boot:

```
sudo systemctl enable nginx
```

```
vagrant@ubuntu-bionic:~$ sudo systemctl start nginx
vagrant@ubuntu-bionic:~$ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable nginx
vagrant@ubuntu-bionic:~$
```

Checking version:

```
nginx -v
```

```
vagrant@ubuntu-bionic:~$ nginx -v
nginx version: nginx/1.14.0 (Ubuntu)
vagrant@ubuntu-bionic:~$|
```

Getting the IP of Nginx Server:

```
vagrant@Intellipaat:~$ ifconfig | grep -A 1 'enp0s8'
enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
   inet 192.168.1.110 netmask 255.255.255.0 broadcast 192.168.1.255
```

Testing the service:



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to <u>nginx.org</u>. Commercial support is available at <u>nginx.com</u>.

Thank you for using nginx.

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```
vagrant@ubuntu-bionic:-5 sudo aut update & sudo aut upgrade -y
Get1: http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 k8]
Get1: http://security.ubuntu.com/ubuntu bionic-loudersy InRelease
Get1: http://security.ubuntu.com/ubuntu bionic-louderse InRelease [88.7 k8]
Get1: http://security.ubuntu.com/ubuntu bionic-louderse InRelease [88.7 k8]
Get1: http://security.ubuntu.com/ubuntu bionic-louderse InRelease [88.3 k8]
Get1: http://security.ubuntu.com/ubuntu bionic-louderse InRelease [83.3 k8]
Get1: http://security.ubuntu.com/ubuntu bionic-security/main franslation-en [467 k8]
Get1: http://security.ubuntu.com/ubuntu bionic-security/restricted and64 Packages [870 k8]
Get1: http://security.ubuntu.com/ubuntu bionic-security/restricted Inraslation-en [182 k8]
```

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Suggested packages:
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