

Ansible:

Ansible Playbook to deploy web app in its own Docker container.

Initializing the Docker container and log-in process.

```
CONTAINER ID   IMAGE          COMMAND        CREATED        STATUS        PORTS                               NAMES
7eb0e493696c  ubuntu:latest  "bash"        2 hours ago   Up 2 hours   0.0.0.0:80->80/tcp, :::80->80/tcp   webserver
root@ip-172-31-32-173:~#
root@ip-172-31-32-173:~# docker exec -it webserver bash
```

Executing Ansible playbook using the below command:

ansible-playbook webapp.yml -vvvv

Webapp status using **netstat -tupln** command inside the container.

```
root@ip-172-31-32-173:~# docker exec -it webserver bash
root@7eb0e493696c:/# netstat -tupln
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:80             0.0.0.0:*              LISTEN      12573/nginx: master
tcp6       0      0 :::3000                :::*                   LISTEN      -
root@7eb0e493696c:/#
```

Host System Port status to validate the Webapp status.

```
root@ip-172-31-32-173:~# netstat -tupln
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:60681          0.0.0.0:*              LISTEN      784/rpc.mountd
tcp        0      0 0.0.0.0:50057          0.0.0.0:*              LISTEN      784/rpc.mountd
tcp        0      0 0.0.0.0:34767          0.0.0.0:*              LISTEN      -
tcp        0      0 0.0.0.0:33903          0.0.0.0:*              LISTEN      784/rpc.mountd
tcp        0      0 0.0.0.0:111            0.0.0.0:*              LISTEN      574/rpcbind
tcp        0      0 0.0.0.0:80             0.0.0.0:*              LISTEN      2227/docker-proxy
tcp        0      0 192.168.122.1:53       0.0.0.0:*              LISTEN      1570/dnsmasq
tcp        0      0 127.0.0.53:53          0.0.0.0:*              LISTEN      769/systemd-resolve
tcp        0      0 0.0.0.0:22             0.0.0.0:*              LISTEN      982/sshd
tcp        0      0 0.0.0.0:2049           0.0.0.0:*              LISTEN      -
tcp        0      0 127.0.0.1:45861        0.0.0.0:*              LISTEN      981/containerd
tcp6       0      0 :::111                 :::*                   LISTEN      574/rpcbind
tcp6       0      0 :::80                  :::*                   LISTEN      2233/docker-proxy
tcp6       0      0 :::22                  :::*                   LISTEN      982/sshd
tcp6       0      0 :::41663               :::*                   LISTEN      -
tcp6       0      0 :::2049                :::*                   LISTEN      -
```

Webapp has not configured to any domain, using server public IP to access the application.

```
root@ip-172-31-32-173:~# curl ifconfig.co
43.204.35.162
root@ip-172-31-32-173:~#
```

Web Application Status:



