Host Security and Remote Connections - LAB 1

1. Create a local container with the python3 http.server. Serve a page on port 8080. Use host networking. Update the firewall on the host to allow connections on port 8080.

Document the steps:

| > Created an index.html page with a single word  > Created Dockerfile  :::  FROM python:3.6-stretch  LABEL author="Rodzers Usackis <rodzers.usackis@student.kdg.be>"  RUN ["/bin/bash", "-c", "mkdir /pythonweb"]  WORKDIR /pythonweb  COPY "./index.html" "/pythonweb"  EXPOSE 8080  :::  > Built the image  $ sudo docker build -t pythonwebserver .  > Ran the container  $ sudo docker run --network host -i -t pythonwebserver /bin/bash  > Served a page on port 8080  root@asphyxia:/pythonweb# python -m http.server 8080  > Updated the firewall on the host to allow connections on port 8080  **asphyxia@asphyxia**:**~**$ sudo ufw status  Status: inactive  **asphyxia@asphyxia**:**~**$ sudo ufw enable  Firewall is active and enabled on system startup  **asphyxia@asphyxia**:**~**$ sudo ufw status  Status: active  **asphyxia@asphyxia**:**~**$ sudo ufw allow 8080  Rule added  Rule added (v6)  **asphyxia@asphyxia**:**~**$ sudo ufw status  Status: active  To Action From  -- ------ ----  8080 ALLOW Anywhere  8080 (v6) ALLOW Anywhere (v6) |
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I also tested it with a bridged connection and a rule that denies access to port 8080 and it works like intended.

