```
FROM continuumio/miniconda3:4.9.2
ARG port=8888
ENV NOTEBOOK_PORT $port
RUN conda config --set auto_update_conda false \
    && conda config --set notify_outdated_conda false \
    && conda config --prepend channels conda-forge \
    && conda config --set channel_priority strict \
    && conda install -Sy \
        python==3.8.5 \
        pip==20.2.4 \
        notebook=6.1.4 \
        ipywidgets=7.5.1 \
        jupyter_contrib_nbextensions=0.5.1 \
        tini=0.18.0 \
        numpy=1.19.1 \
        pandas=1.1.2 \setminus
        matplotlib=3.2.2 \
        seaborn=0.11.0 \setminus
    && conda clean -afy
COPY jupyter_notebook_config.py /root/.jupyter/
WORKDIR "/mnt"
ENTRYPOINT ["tini", "-g", "--"]
CMD ["jupyter", "notebook"]
```

# Data analyses in Docker

3. Run a container

#### Dockerfile Instructions



# Specifies the base image to build on top of

 Can be an image you built or any image on Docker Hub

• Format: FROM <user>/<repository>:<tag>  Debian 10 ("Buster") image with Miniconda 4.9.2 installed

```
FROM debian:buster-slim
LABEL maintainer="Anaconda, Inc"
ENV LANG=C.UTF-8 LC_ALL=C.UTF-8
RUN apt-get update -g && \
    apt-get install -q -y --no-install-recommends \
        bzip2 \
        ca-certificates \
        git \
        libalib2.0-0 \
        libsm6 \
        libxext6 \
        libxrender1 \
        mercurial \
        openssh-client \
        subversion \
       wget \
    && apt-get clean \
    && rm -rf /var/lib/apt/lists/*
ENV PATH /opt/conda/bin:$PATH
CMD [ "/bin/bash" ]
ARG CONDA_VERSION=py38_4.9.2
RUN set -x && \
    UNAME_M="$(uname -m)" && \
    if [ "${UNAME_M}" = "x86_64" ]; then \
        MINICONDA_URL="https://repo.anaconda.com/miniconda/Miniconda3-${CONDA_VERSION}-Linux-x86_64.sh"; \
        SHA256SUM="1314b90489f154602fd794accfc90446111514a5a72fe1f71ab83e07de9504a7": \
    elif [ "${UNAME_M}" = "s390x" ]; then \
        MINICONDA_URL="https://repo.anaconda.com/miniconda/Miniconda3-${CONDA_VERSION}-Linux-s390x.sh"; \
        SHA256SUM="4e6ace66b732170689fd2a7d86559f674f2de0a0a0fbaefd86ef597d52b89d16"; \
    elif [ "${UNAME_M}" = "aarch64" ]; then \
        MINICONDA_URL="https://repo.anaconda.com/miniconda/Miniconda3-${CONDA_VERSION}-Linux-aarch64.sh"; \
        SHA256SUM="b6fbba97d7cef35ebee8739536752cd8b8b414f88e237146b11ebf081c44618f"; \
    elif [ "${UNAME_M}" = "ppc64le" ]; then \
        MINICONDA_URL="https://repo.anaconda.com/miniconda/Miniconda3-${CONDA_VERSION}-Linux-ppc64le.sh"; \
        SHA256SUM="2b111dab4b72a34c969188aa7a91eca927a034b14a87f725fa8d295955364e71": \
    fi && \
    wget "${MINICONDA_URL}" -0 miniconda.sh -q && \
    echo "${SHA256SUM} miniconda.sh" > shasum && \
    if [ "${CONDA_VERSION}" != "latest" ]; then sha256sum --check --status shasum; fi && \
    mkdir -p /opt && \
    sh miniconda.sh -b -p /opt/conda && \
    rm miniconda.sh shasum && \
    ln -s /opt/conda/etc/profile.d/conda.sh /etc/profile.d/conda.sh && \
    echo ". /opt/conda/etc/profile.d/conda.sh" >> ~/.bashrc && \
    echo "conda activate base" >> ~/.bashrc && \
    find /opt/conda/ -follow -type f -name '*.a' -delete && \
    find /opt/conda/ -follow -type f -name '*.js.map' -delete && \
    /opt/conda/bin/conda clean -afy
```

#### 2. Build an image

#### 1. Write a Dockerfile

#### 3. Run a container

#### Docker Hub

#### installed

FROM <user>/<repository>:<tag>

**Format:** 

# Can be an image you built or any image on

# Debian 10 ("Buster") image with Miniconda 4.9.2

# Dockerfile Instructions



#### Docker Hub

#### installed

FROM <user>/<repository>:<tag>

ormat:

# Can be an image you built or any image on

# Specifies the base image to build on top of

# Debian 10 ("Buster") image with Miniconda 4.9.2

```
FROM debian:buster-slim
LABEL maintainer="Anaconda, Inc"
ENV LANG=C.UTF-8 LC_ALL=C.UTF-8
RUN apt-get update -g && \
    apt-get install -q -y --no-install-recommends \
        bzip2 \
        ca-certificates \
        git \
        libglib2.0-0 \
        libsm6 \
        libxext6 \
        libxrender1 \
        mercurial \
        openssh-client \
        subversion \
       wget \
    && apt-get clean \
    && rm -rf /var/lib/apt/lists/*
ENV PATH /opt/conda/bin:$PATH
CMD [ "/bin/bash" ]
ARG CONDA_VERSION=py38_4.9.2
RUN set -x && \
    UNAME_M="$(uname -m)" && \
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        MINICONDA_URL="https://repo.anaconda.com/miniconda/Miniconda3-${CONDA_VERSION}-Linux-aarch64.sh"; \
        SHA256SUM="b6fbba97d7cef35ebee8739536752cd8b8b414f88e237146b11ebf081c44618f"; \
    elif [ "${UNAME_M}" = "ppc64le" ]; then \
        MINICONDA_URL="https://repo.anaconda.com/miniconda/Miniconda3-${CONDA_VERSION}-Linux-ppc64le.sh"; \
        SHA256SUM="2b111dab4b72a34c969188aa7a91eca927a034b14a87f725fa8d295955364e71": \
    fi && \
    wget "${MINICONDA_URL}" -0 miniconda.sh -q && \
    echo "${SHA256SUM} miniconda.sh" > shasum && \
    if [ "${CONDA_VERSION}" != "latest" ]; then sha256sum --check --status shasum; fi && \
    mkdir -p /opt && \
    sh miniconda.sh -b -p /opt/conda && \
    rm miniconda.sh shasum && \
    ln -s /opt/conda/etc/profile.d/conda.sh /etc/profile.d/conda.sh && \
    echo ". /opt/conda/etc/profile.d/conda.sh" >> ~/.bashrc && \
    echo "conda activate base" >> ~/.bashrc && \
    find /opt/conda/ -follow -type f -name '*.a' -delete && \
    find /opt/conda/ -follow -type f -name '*.js.map' -delete && \
    /opt/conda/bin/conda clean -afy
```