FROM --platform=linux/amd64 nvidia/cuda:11.2.2-cudnn8-runtime-ubuntu20.04

RUN \

# Add Deadsnakes repository that has a variety of Python packages for Ubuntu.

# See: https://launchpad.net/~deadsnakes/+archive/ubuntu/ppa

apt-key adv --keyserver keyserver.ubuntu.com --recv-keys F23C5A6CF475977595C89F51BA6932366A755776 \

&& echo "deb http://ppa.launchpad.net/deadsnakes/ppa/ubuntu focal main" >> /etc/apt/sources.list.d/custom.list \

&& echo "deb-src http://ppa.launchpad.net/deadsnakes/ppa/ubuntu focal main" >> /etc/apt/sources.list.d/custom.list \

&& apt-get update \

&& apt-get install -y curl \

python3.7 \

# With python3.8 package, distutils need to be installed separately.

python3.7-distutils \

python3-dev \

python3.7-dev \

libpython3.7-dev \

python3-apt \

gcc \

g++ \

&& rm -rf /var/lib/apt/lists/\*

RUN update-alternatives --install /usr/bin/python python /usr/bin/python3.7 10

RUN rm -f /usr/bin/python3 && ln -s /usr/bin/python3.7 /usr/bin/python3

RUN \

curl https://bootstrap.pypa.io/get-pip.py | python \

&& pip3 install pip==22.0.3 \

&& python3 -m pip install --no-cache-dir apache-beam[gcp]==2.39.0

# Verify that there are no conflicting dependencies.

RUN pip3 check

# Copy the Apache Beam worker dependencies from the Beam Python 3.7 SDK image.

COPY --from=apache/beam\_python3.7\_sdk:2.39.0 /opt/apache/beam /opt/apache/beam

# Set the entrypoint to Apache Beam SDK worker launcher.

ENTRYPOINT [ "/opt/apache/beam/boot" ]