Install docker compose on EC2 instance on AWS

```
[ec_-user@ip-172-31-22-49 composetest]$ sudo curl -L "https://gitl
compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
% Total % Received % Xferd Average Speed Time Time
Dload Upload Total Spent
                                                                                       "https://github.com/docker/compose/releases/download/1.23.2/docker-
                                                                                                            Time Current
Left Speed
                                      Θ
                              0
                                                 Θ
                                                                       0 --:--:-- --:--:--
                                                            Θ
100 11.2M 100 11.2M
                                                                       0 --:--:-
                                                     29.0M
                                                                                                  -:-- --:-- 29.0M
                                      0
                                                0
[ec2-user@ip-172-31-22-49 composetest]$ sudo chmod +x /usr/local/bin/docker-compose
[ec2-user@ip-172-31-22-49 composetest]$ docker-compose --version
docker-compose version 1.23.2, build 1110ad01
[ec2-user@ip-172-31-22-49 composetest]$ |
```

Docker version on EC2
 [ec2-user@ip-172-31-22-49 composetest]\$ docker-compose --version
 docker-compose version 1.23.2, build 1110ad01

3. Create composetest directory, and app.py file in it with Python code.

```
[ec2-user@ip-172-31-22-49 ~]$ mkdir composetest
[ec2-user@ip-172-31-22-49 ~]$ cd composetest/
[ec2-user@ip-172-31-22-49 composetest]$ touch app.py
[ec2-user@ip-172-31-22-49 composetest]$ vi app.py
[ec2-user@ip-172-31-22-49 composetest]$
[ec2-user@ip-172-31-22-49 composetest]$ cat app.py
import time
import redis
from flask import Flask
app = Flask(__name__)
cache = redis.Redis(host='redis', port=6379)
def get_hit_count():
    retries = 5
    while True:
        trv:
            return cache.incr('hits')
        except redis.exceptions.ConnectionError as exc:
            if retries == 0:
                raise exc
            retries -= 1
            time.sleep(0.5)
@app.route('/')
```

b. create requirement file and add following 2 services

```
[ec2-user@ip-172-31-22-49 composetest]$ touch requirements.txt
[ec2-user@ip-172-31-22-49 composetest]$ vi requirements.txt
[ec2-user@ip-172-31-22-49 composetest]$ cat requirements.txt
flask
redis
```

c. Create dockerfile and add changes

```
[ec2-user@ip-172-31-22-49 composetest]$ cat dockerfile
# syntax=docker/dockerfile:1
FROM python:3.10-alpine
WORKDIR /code
ENV FLASK_APP=app.py
ENV FLASK_RUN_HOST=0.0.0.0
RUN apk add --no-cache gcc musl-dev linux-headers
COPY requirements.txt requirements.txt
RUN pip install -r requirements.txt
EXPOSE 5000
COPY . .
CMD ["flask", "run", "--debug"]
```

d. Now create compose.yaml file which can call services and ports

```
[ec2-user@ip-172-31-22-49 composetest]$ cat compose.yaml
services:
   web:
     build: .
     ports:
        - "8000:5000"
   redis:
     image: "redis:alpine"
```

e. After running docker-compose command it gives error

ERROR: client version 1.21 is too old. Minimum supported API version is 1.24, please upgrade your client to a newer version

I tried to upgrade client but it not works.