

## First terminal:

```
zorya@zorya-virtual-machine:~/Documents/BigData/hw6$ bash run-cluster.sh
fff5ea1b42a047021b2f0a06605c707831feed98dd6445f33c518186b8436f31
110a897eedf7f62c9474fddcd40f708faca1e685f2ec453d4ffa41fc7a0bbfbf
d9a610d35e1485f8dbb7f0dbe80380f01095f2e20508db4291b99f596e843a7e
zorya@zorya-virtual-machine:~/Documents/BigData/hw6$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
d9a610d35e14   bitnami/kafka:latest               "/opt/bitnami/script-" 3 seconds ago  Up 2 seconds  9092/tcp                           kafka-server
110a897eedf7   bitnami/zookeeper:latest          "/opt/bitnami/script-" 4 seconds ago  Up 3 seconds  2181/tcp, 2888/tcp, 3888/tcp, 8080/tcp  zookeeper-server
zorya@zorya-virtual-machine:~/Documents/BigData/hw6$ bash create-topic.sh
kafka 18:29:24.24
kafka 18:29:24.24 Welcome to the Bitnami kafka container
kafka 18:29:24.25 Subscribe to project updates by watching https://github.com/bitnami/bitnami-docker-kafka
kafka 18:29:24.25 Submit issues and feature requests at https://github.com/bitnami/bitnami-docker-kafka/issues
kafka 18:29:24.25
Created topic tweets.
zorya@zorya-virtual-machine:~/Documents/BigData/hw6$ bash build-run.sh
Sending build context to Docker daemon 17.92MB
Step 1/7 : FROM python:3.9-slim
--> 8c7051081f58
Step 2/7 : RUN pip install --upgrade pip
--> Using cache
--> eae7205b904c
Step 3/7 : COPY requirements.txt /opt/app/requirements.txt
--> 0e3ee05c110b
Step 4/7 : RUN python3 -m pip install -r /opt/app/requirements.txt
--> Using cache
--> ee9063696e99
Step 5/7 : COPY ./main.py /opt/app/main.py
--> Using cache
--> 1a360579158a
Step 6/7 : COPY ./sample.csv /opt/app/sample.csv
--> Using cache
--> 757240c9d312
Step 7/7 : ENTRYPOINT ["python", "/opt/app/main.py"]
--> Using cache
--> e5183258a47b
Successfully built e5183258a47b
Successfully tagged hw6:latest
zorya@zorya-virtual-machine:~/Documents/BigData/hw6$ bash shutdown-cluster.sh
zookeeper-server
kafka-server
zookeeper-server
kafka-server
kafka-network
zorya@zorya-virtual-machine:~/Documents/BigData/hw6$
```

## Second terminal (call consumer before calling build-run.sh):

```
zorya@zorya-virtual-machine:~/Documents/BigData/hw6$ docker run -it --rm --network kafka-network -e KAFKA_CFG_ZOOKEEPER_CONNECT=zookeeper-server:2181 bitnami/kafka:latest kafka-console-consumer.sh --bootstrap-server kafka-server:9092 --topic tweets
kafka 18:30:08.96
kafka 18:30:08.96 Welcome to the Bitnami kafka container
kafka 18:30:08.97 Subscribe to project updates by watching https://github.com/bitnami/bitnami-docker-kafka
kafka 18:30:08.97 Submit issues and feature requests at https://github.com/bitnami/bitnami-docker-kafka/issues
kafka 18:30:08.98
*2022-06-08 18:30:34.388889 : @AppleSupport causing the reply to be disregarded and the tapped notification under the keyboard is opened\ud83d\ude21\ud83d\ude21\ud83d\ude21 (105834)*
*2022-06-08 18:30:34.387988 : @105835 Your business means a lot to us. Please DM your name, zip code and additional details about your concern. *RR https://t.co/znui1V9nr (ChaseSupport)*
*2022-06-08 18:30:34.458758 : @76328 I really hope you all change but I'm sure you won't! Because you don't have to! (105835)*
*2022-06-08 18:30:34.529241 : @105836 LiveChat is online at the moment - https://t.co/SY94VtU8Kq or contact 83331 031 031 option 1, 4, 3 (Leave a message) to request a call back (VlrgnTrains)*
*2022-06-08 18:30:34.608025 : @VlrgnTrains see attached error message. I've tried leaving a voicemail several times in the past week https://t.co/nxV2jlyxik (105836)*
*2022-06-08 18:30:34.670756 : @105836 Have you tried from another device, Miriam *MM (VlrgnTrains)*
*2022-06-08 18:30:34.741518 : @VlrgnTrains yep, I've tried laptop too several times over the past week and again today. I've tried different browsers too (105836)*
*2022-06-08 18:30:34.812752 : @105836 It's working OK from here, Miriam. Does this link help https://t.co/0mZmPH15eh ? *MM (VlrgnTrains)*
*2022-06-08 18:30:34.883996 : @VlrgnTrains I still haven't heard a beep; the number I'm directed to by phone is a dead end beep; the live chat doesn't work. Can someone call me? (105836)*
*2022-06-08 18:30:34.954157 : @105836 That's what we're here for Miriam \ud83d\ude0a The team should send you an email shortly *MM (VlrgnTrains)*
*2022-06-08 18:30:35.025576 : @105837 We can help. Which version of iOS are you on? You can find that in Settings >gt; General >gt; About. Reply in DM. https://t.co/GDrqU22VpT (AppleSupport)*
*2022-06-08 18:30:35.096495 : @105838 @AppleSupport Me too am suffering , hope the can find a solution (105837)*
*2022-06-08 18:30:35.168032 : @AppleSupport hi @apple, I\ud2019ve a concern about the latest iOS is too slow on #iphone and i am not happy with it. Any solution please? (105838)*
*2022-06-08 18:30:35.238069 : @105839 Thanks for reaching out to us. We are always happy to help. Send us a DM so we can look into this together. https://t.co/GDrqU22VpT (AppleSupport)*
*2022-06-08 18:30:35.309580 : I just updated my phone and suddenly everything takes ages to load wtf @76099 this update sux I hate it fix it bye (105839)*
*2022-06-08 18:30:35.380784 : @105840 Hi there! What device is this happening on? If you could also let us know the Android and Spotify versions you're using, that'd be great /AY (SpotifyCares)*
*2022-06-08 18:30:35.451554 : @SpotifyCares Thanks! Version 8.4.22.857 armv7 on anker bluetooth speaker on Samsung Galaxy Tab A (2016) Model SM-T280 Does distance from speaker matter? (105840)*
*2022-06-08 18:30:35.522371 : @105840 Thanks. The distance could possibly effect playback. Does logging out &gt; restarting your device &gt; logging back in make a difference? /AY (SpotifyCares)*
*2022-06-08 18:30:35.593304 : @SpotifyCares No, but I've moved speaker to about 1 metre away and it's not skipping at the mo - it was about 3 or 4 metres away before. Fingers crossed! (105840)*
*2022-06-08 18:30:35.663970 : @105840 That's great to hear. If anything comes up, just let us know. We'll carry on helping out \ud83d\ude42 /AY (SpotifyCares)*
*2022-06-08 18:30:35.734702 : @SpotifyCares Brilliant thanks \ud83d\ude0a (105840)*
*2022-06-08 18:30:35.805651 : @105840 You're welcome! If there's anything else we can help with, just give us a shout. We're here for you \ud83d\ude09 /CP (SpotifyCares)*
*2022-06-08 18:30:35.877057 : @76485 @1226 Please help! Spotify Premium skipping through songs constantly on android tablet &mp; bluetooth speaker. Tried everything! (105840)*
*2022-06-08 18:30:35.948453 : @105841 We'd love to help! Please DM us and let us know any steps you've tried since experiencing these behaviors. https://t.co/GDrqU22VpT (AppleSupport)*
*2022-06-08 18:30:36.019133 : @AppleSupport after the 11.0.2 my phone just sucks most of the apps are broken, wifi disconnects frequently #apple #ios1102 #painfulupdate (105841)*
*2022-06-08 18:30:36.089973 : @105842 We're sorry your flight has been delayed, Beatner. Are you travelling on the BA8733? If so, the updated departure time we have is 15:30. 1/2 (British Airways)*
*2022-06-08 18:30:36.160698 : First flight for long time with @BritishAirways. Now over one 1h delay for the short jump FRA-LCY and NO one here to provide status updates (105842)*
*2022-06-08 18:30:36.231568 : @105843 Battery life is important, and we're here for you. DM us the iOS version your iPhone is running. We'll go from there. https://t.co/GDrqU22VpT (AppleSupport)*
*2022-06-08 18:30:36.302641 : Okay @76099 I used my fucking phone for 2 minutes and it drains it down 8 fucking percent (105843)*
*2022-06-08 18:30:36.373959 : @105844 Thanks for reaching out to us. We are always happy to help. Send us a DM so we can look into this together. https://t.co/GDrqU22VpT (AppleSupport)*
*2022-06-08 18:30:36.445562 : @AppleSupport Can you get my iPhone 7plus back on the old iOS please? Battery runs out in half the time, apps now frequently crash. (105844)*
*2022-06-08 18:30:36.516997 : @105844 We'd be happy to help. Send us a DM and we can start there. https://t.co/GDrqU22VpT (AppleSupport)*
*2022-06-08 18:30:36.588608 : You\ud2019ve paralysed my phone with your update @76099 grrrrrrrrrr (105844)*
*2022-06-08 18:30:36.659382 : @82476 \ud83e\udd14 We'd like to help Sam, which number is calling you? Please DM us more info so we can advise further. https://t.co/SpYDJ38C6r (02)*
*2022-06-08 18:30:36.730693 : @02 I received this a few weeks ago, since then I've been getting 2/3 calls a day from a telemarketer. Is someone using your name? https://t.co/6ltz4Mcex (#2476)*
*2022-06-08 18:30:36.801635 : @105845 I understand this is a frustrating experience, please send a DM with your account information so I can look into this matter for you. -AD (ConcastCares)*
*2022-06-08 18:30:36.872425 : My internet is down and xfinity talkin about 24-72 hours... y\ud2019all have the game messed up. \n\ng77245 (105845)*
*2022-06-08 18:30:36.943176 : @105676 I understand how you frustrated this situation can be. Please follow us by sending a DM for further assistance. Sprint Cares. -AC (sprintcare)*
*2022-06-08 18:30:37.014026 : @105676 I service last 40 min sprint can I get a refund https://t.co/whw6p6u6 (105676)*
*2022-06-08 18:30:37.084837 : @105846 We'd like to help. What happens when you try to listen to Apple Music &mp; use WhatsApp? Does the music pause? Let us know in DM. https://t.co/GDrqU22VpT (AppleSupport)*
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"2022-06-08 18:30:37.793376 : @105848 Let's take a look. What is the exact iOS you're using? Are you using any specific apps when noticing this? DM us your reply. https://t.co/GDrqU2YpT (AppleSupport)"
"2022-06-08 18:30:37.864297 : @AppleSupport Latest version \ud83d\ude21\ud83d\ude21 I have read the help page turned off virtually all apps and location svcs too - but in typing this I dropped 3% life (105848)"
"2022-06-08 18:30:37.934998 : @AppleSupport Super help - problem solved \ud83d\ude00 once again in love with Apple (105848)"
"2022-06-08 18:30:38.005739 : @AppleSupport #lostupdate - is still killing my battery within 12 hours - phone is 18 months old - it's 2019e a disgrace - used to get 2 days (105848)"
"2022-06-08 18:30:38.076671 : @105849 Thanks for reaching out to us. We are always happy to help. Send us a DM so we can look into this together. https://t.co/GDrqU2YpT (AppleSupport)"
"2022-06-08 18:30:38.147283 : Took my phone off charge at 7:20am.\n\n8:03am - 68% battery remaining,\n\n9:07am plz I beg you, sort your battery life out\ud83d\ude29 (105849)"
"2022-06-08 18:30:38.218502 : @105850 Once the points load and you hit the number, you get it immediately! You'll even receive a congrats email. Are you almost there? ^AC (SouthwestAir)"
"2022-06-08 18:30:38.289913 : @SouthwestAir I am Thank you for the answer!! (105850)"
"2022-06-08 18:30:38.361533 : @SouthwestAir Just curious....will I get the companion pass the exact moment I get enough points? It will I have to wait? Thanks! (105850)"
"2022-06-08 18:30:38.432924 : @105851 We'd like to provide some assistance with this. Tell us more about the issue you're experiencing in DM. We'll go from there. https://t.co/GDrqU2YpT (AppleSupport)"
"2022-06-08 18:30:38.503894 : @AppleSupport I need a new code for my I-store. I haven't rec'd any but msg is too many sent. Help! (105851)"
"2022-06-08 18:30:38.574793 : @105852 Are you experiencing an issue with your device? If so, DM us with what's going on. We'll see how we can help from there. https://t.co/GDrqU2YpT (AppleSupport)"
"2022-06-08 18:30:38.646326 : @76999 @AppleSupport fix this update. It's horrible (105852)"
"2022-06-08 18:30:38.717863 : @105842 I appreciate it's after 15:30 now, so hopefully you will depart very soon. We're sorry for any inconvenience the delay has caused. 2/2 ^JR (British_Airways)"
"2022-06-08 18:30:38.788649 : @British_Airways Thanks for your answer. Response onsite was that Aircraft will not depart today, so rebooking to @105853 with now 4h delay... (105842)"
"2022-06-08 18:30:38.859386 : @105842 Very sorry to hear this. We hope you get everything sorted. Kind Regards ^Jools (British_Airways)"
"2022-06-08 18:30:38.929911 : @105854 I am sorry for the poor experience. Can you please DM the full service address and name on the account, as we ass... https://t.co/3EZhqGdBMd (Ask_Spectrun)"
"2022-06-08 18:30:39.000666 : @Ask_Spectrun It's just in my yard. I've called 4-5 times in 6 weeks. I'm not a customer but it's pretty tempting. I do have some coaxial (105854)"
"2022-06-08 18:30:39.071667 : @76501 I guess this means free cable for the neighborhood. https://t.co/BgLE9YXPM (105854)"
"2022-06-08 18:30:39.142553 : @105855 Hi Thomas, if a colleague believes the person buying alcohol looks under 25, they will be challenged for ID to prove they're of age. - Paige (Tesco)"
"2022-06-08 18:30:39.213290 : @Tesco Maybe hire colleagues who can see? (105855)"
"2022-06-08 18:30:39.284042 : @Tesco The point is if it's enforced they do it properly or they don't. Plus take some common-sense and think does that person look over 18? (105855)"
"2022-06-08 18:30:39.354800 : @105855 Hi Thomas, this is correct but this helps our store colleagues judge age and protect them from making underage sales. Amanda (Tesco)"
"2022-06-08 18:30:39.425696 : @Tesco UK off license law is 18. Not 25 (105855)"
"2022-06-08 18:30:39.496472 : @105855 Hi Thomas, we operate a Think 25 policy at our stores. I'd be flattered to be ID'd. :- ) - Helena (Tesco)"
"2022-06-08 18:30:39.567119 : Got id'd @Tesco for buying one Adams Broadside. Is being blind part of the job-spec? I am 35 and 99 kilos. (105855)"
"2022-06-08 18:30:39.638004 : @105856 Hi there, could you try deleting your cache and cookies and reinstalling the app if using it? This should fix the issue :) - Dani (Tesco)"
"2022-06-08 18:30:39.708917 : @Tesco Will I lose all the shopping I've done if I delete the cache/cookies (not using app)? (105856)"
"2022-06-08 18:30:39.780346 : @105856 Hi there, as long as you sign out of your account prior to deleting your cache & cookies, you'll still have a full basket :) Thanks - Mike (Tesco)"
"2022-06-08 18:30:39.851108 : @Tesco Done all that. Still telling me there are no delivery slots whatsoever. (105856)"
"2022-06-08 18:30:39.922042 : @105856 Can you DM me your full name, address and email? I'd be happy to look into this further for you :) Thanks - Mike (Tesco)"
"2022-06-08 18:30:39.992083 : Hey @Tesco, your website's broken. It's telling me there are no delivery slots for the next 3 weeks, which I find slightly unlikely. (105856)"
"2022-06-08 18:30:40.063556 : @105857 Is there a particular app that seems to cause these issues more than others? What model iPhone are you using? Join us in DM. https://t.co/GDrqU2YpT (AppleSupport)"
"2022-06-08 18:30:40.134291 : @AppleSupport I have the latest version iOS. It started immediately after I updated my phone. (105857)"
"2022-06-08 18:30:40.204753 : @105857 We'd like to help if we can. When did this start happening? Which version of iOS are you running currently? (AppleSupport)"
"2022-06-08 18:30:40.275726 : My apps stop working without warning and my phone freezes every five minutes! Love the new update @760991!!!! (105857)"
"2022-06-08 18:30:40.346504 : @105858 Hi Agoura, thanks for tweeting. Please refer to this article: https://t.co/BSsgjZARtC & click the link to reply back. ^Rashmi https://t.co/a2xkfCrUG1 (HPSupport)"
"2022-06-08 18:30:40.417931 : @HPSupport Problem with printhead Serial# TH536D1HN #hpcswus #hprnt (105858)"
"2022-06-08 18:30:40.488800 : @105859 UPS has a service called My Choice that will allow your packages to be delivered to UPS Store. ^ML https://t.co/BPZKndqdw1 https://t.co/wKJHDxMGQR (UPSHelp)"
"2022-06-08 18:30:40.560413 : @105860 I wish Amazon had an option of where I can just get it shipped to the ups store so I can avoid a lot of the struggle (105859)"
"2022-06-08 18:30:40.631108 : They reschedule my shit for tomorrow https://t.co/RsvZC798zt (105860)"
"2022-06-08 18:30:40.702073 : @105861 Hey Sara, sorry to hear of the issues you are having, can I ask if it's the lay out or just the speed of the website responding? TY - Chris (Tesco)"
"2022-06-08 18:30:40.772684 : @Tesco bit of both - finding the layout cumbersome and when removing an item from faves - getting a huge slowdown. Not keen on the thin green line https://t.co/9Z810KEebk (105861)"
"2022-06-08 18:30:40.843431 : @105861 If that doesn't help please DM your full name, address and email including the browser and device so we can log this. Thanks - Lee 2/2 (Tesco)"
"2022-06-08 18:30:40.417931 : @HPSupport Problem with printhead Serial# TH536D1HN #hpcswus #hprnt (105858)"
"2022-06-08 18:30:40.488800 : @105859 UPS has a service called My Choice that will allow your packages to be delivered to UPS Store. ^ML https://t.co/BPZKndqdw1 https://t.co/wKJHDxMGQR (UPSHelp)"
"2022-06-08 18:30:40.560413 : @105860 I wish Amazon had an option of where I can just get it shipped to the ups store so I can avoid a lot of the struggle (105859)"
"2022-06-08 18:30:40.631108 : They reschedule my shit for tomorrow https://t.co/RsvZC798zt (105860)"
"2022-06-08 18:30:40.702073 : @105861 Hey Sara, sorry to hear of the issues you are having, can I ask if it's the lay out or just the speed of the website responding? TY - Chris (Tesco)"
"2022-06-08 18:30:40.772684 : @Tesco bit of both - finding the layout cumbersome and when removing an item from faves - getting a huge slowdown. Not keen on the thin green line https://t.co/9Z810KEebk (105861)"
"2022-06-08 18:30:40.843431 : @105861 If that doesn't help please DM your full name, address and email including the browser and device so we can log this. Thanks - Lee 2/2 (Tesco)"
^X^X^XProcessed a total of 93 messages
^X^X^XVirtual-Machine:~/Documents/BigData/hwd$
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