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| timestamp | message |

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| 1608741197849 | bash: cannot set terminal process group (-1): Inappropriate ioctl for device |

| 1608741197849 | bash: no job control in this shell |

| 1608741199849 | 2020-12-23 16:33:18,958 sagemaker-containers INFO Imported framework sagemaker\_pytorch\_container.training |

| 1608741199849 | 2020-12-23 16:33:18,984 sagemaker\_pytorch\_container.training INFO Block until all host DNS lookups succeed. |

| 1608741199849 | 2020-12-23 16:33:18,986 sagemaker\_pytorch\_container.training INFO Invoking user training script. |

| 1608741199850 | 2020-12-23 16:33:19,341 sagemaker-containers INFO Module train does not provide a setup.py. |

| 1608741199850 | Generating setup.py |

| 1608741199850 | 2020-12-23 16:33:19,342 sagemaker-containers INFO Generating setup.cfg |

| 1608741199850 | 2020-12-23 16:33:19,342 sagemaker-containers INFO Generating MANIFEST.in |

| 1608741199850 | 2020-12-23 16:33:19,342 sagemaker-containers INFO Installing module with the following command: |

| 1608741199850 | /usr/bin/python -m pip install -U . -r requirements.txt |

| 1608741200850 | Processing /opt/ml/code |

| 1608741200850 | Collecting pandas (from -r requirements.txt (line 1)) |

| 1608741201851 | Downloading https://files.pythonhosted.org/packages/c3/e2/00cacecafbab071c787019f00ad84ca3185952f6bb9bca9550ed83870d4d/pandas-1.1.5-cp36-cp36m-manylinux1\_x86\_64.whl (9.5MB) |

| 1608741202851 | Collecting numpy (from -r requirements.txt (line 2)) Downloading https://files.pythonhosted.org/packages/a6/fc/36e52d0ae2aa502b211f1bcd2fdeec72d343d58224eabcdddc1bcb052db1/numpy-1.19.4-cp36-cp36m-manylinux1\_x86\_64.whl (13.4MB) |

| 1608741203855 | Collecting nltk (from -r requirements.txt (line 3)) Downloading https://files.pythonhosted.org/packages/92/75/ce35194d8e3022203cca0d2f896dbb88689f9b3fce8e9f9cff942913519d/nltk-3.5.zip (1.4MB) |

| 1608741203856 | Collecting beautifulsoup4 (from -r requirements.txt (line 4)) Downloading https://files.pythonhosted.org/packages/d1/41/e6495bd7d3781cee623ce23ea6ac73282a373088fcd0ddc809a047b18eae/beautifulsoup4-4.9.3-py3-none-any.whl (115kB) |

| 1608741203856 | Collecting html5lib (from -r requirements.txt (line 5)) Downloading https://files.pythonhosted.org/packages/6c/dd/a834df6482147d48e225a49515aabc28974ad5a4ca3215c18a882565b028/html5lib-1.1-py2.py3-none-any.whl (112kB) |

| 1608741203856 | Requirement already satisfied, skipping upgrade: pytz>=2017.2 in /usr/local/lib/python3.6/dist-packages (from pandas->-r requirements.txt (line 1)) (2019.1) |

| 1608741203857 | Requirement already satisfied, skipping upgrade: python-dateutil>=2.7.3 in /usr/local/lib/python3.6/dist-packages (from pandas->-r requirements.txt (line 1)) (2.8.0) |

| 1608741203857 | Requirement already satisfied, skipping upgrade: click in /usr/local/lib/python3.6/dist-packages (from nltk->-r requirements.txt (line 3)) (7.0) |

| 1608741203857 | Collecting joblib (from nltk->-r requirements.txt (line 3)) Downloading https://files.pythonhosted.org/packages/34/5b/bd0f0fb5564183884d8e35b81d06d7ec06a20d1a0c8b4c407f1554691dce/joblib-1.0.0-py3-none-any.whl (302kB) |

| 1608741203857 | Collecting regex (from nltk->-r requirements.txt (line 3)) |

| 1608741204857 | Downloading https://files.pythonhosted.org/packages/5a/75/aca08032c9752a75acc60ff7f4e58f1a74164b996395f44727ffdb17ebaf/regex-2020.11.13-cp36-cp36m-manylinux1\_x86\_64.whl (666kB) |

| 1608741204857 | Requirement already satisfied, skipping upgrade: tqdm in /usr/local/lib/python3.6/dist-packages (from nltk->-r requirements.txt (line 3)) (4.32.1) |

| 1608741204858 | Collecting soupsieve>1.2; python\_version >= "3.0" (from beautifulsoup4->-r requirements.txt (line 4)) Downloading https://files.pythonhosted.org/packages/02/fb/1c65691a9aeb7bd6ac2aa505b84cb8b49ac29c976411c6ab3659425e045f/soupsieve-2.1-py3-none-any.whl |

| 1608741204858 | Collecting webencodings (from html5lib->-r requirements.txt (line 5)) Downloading https://files.pythonhosted.org/packages/f4/24/2a3e3df732393fed8b3ebf2ec078f05546de641fe1b667ee316ec1dcf3b7/webencodings-0.5.1-py2.py3-none-any.whl |

| 1608741204858 | Requirement already satisfied, skipping upgrade: six>=1.9 in /usr/local/lib/python3.6/dist-packages (from html5lib->-r requirements.txt (line 5)) (1.12.0) |

| 1608741204858 | Building wheels for collected packages: nltk, train Running setup.py bdist\_wheel for nltk: started |

| 1608741205858 | Running setup.py bdist\_wheel for nltk: finished with status 'done' Stored in directory: /root/.cache/pip/wheels/ae/8c/3f/b1fe0ba04555b08b57ab52ab7f86023639a526d8bc8d384306 Running setup.py bdist\_wheel for train: started |

| 1608741206859 | Running setup.py bdist\_wheel for train: finished with status 'done' Stored in directory: /tmp/pip-ephem-wheel-cache-8s\_6lkru/wheels/35/24/16/37574d11bf9bde50616c67372a334f94fa8356bc7164af8ca3 |

| 1608741206859 | Successfully built nltk train |

| 1608741206859 | Installing collected packages: numpy, pandas, joblib, regex, nltk, soupsieve, beautifulsoup4, webencodings, html5lib, train Found existing installation: numpy 1.16.4 Uninstalling numpy-1.16.4: |

| 1608741207859 | Successfully uninstalled numpy-1.16.4 |

| 1608741208860 | Found existing installation: pandas 0.24.2 |

| 1608741209860 | Uninstalling pandas-0.24.2: |

| 1608741211861 | Successfully uninstalled pandas-0.24.2 |

| 1608741215862 | Successfully installed beautifulsoup4-4.9.3 html5lib-1.1 joblib-1.0.0 nltk-3.5 numpy-1.19.4 pandas-1.1.5 regex-2020.11.13 soupsieve-2.1 train-1.0.0 webencodings-0.5.1 |

| 1608741215862 | You are using pip version 18.1, however version 20.3.3 is available. |

| 1608741215862 | You should consider upgrading via the 'pip install --upgrade pip' command. |

| 1608741215862 | 2020-12-23 16:33:35,364 sagemaker-containers INFO Invoking user script |

| 1608741215862 | Training Env: |

| 1608741215863 | { "additional\_framework\_parameters": {}, "channel\_input\_dirs": { "training": "/opt/ml/input/data/training" }, "current\_host": "algo-1", "framework\_module": "sagemaker\_pytorch\_container.training:main", "hosts": [ "algo-1" ], "hyperparameters": { "hidden\_dim": 200, "epochs": 10 }, "input\_config\_dir": "/opt/ml/input/config", "input\_data\_config": { "training": { "TrainingInputMode": "File", "S3DistributionType": "FullyReplicated", "RecordWrapperType": "None" } }, "input\_dir": "/opt/ml/input", "is\_master": true, "job\_name": "sagemaker-pytorch-2020-12-23-16-29-02-045", "log\_level": 20, "master\_hostname": "algo-1", "model\_dir": "/opt/ml/model", "module\_dir": "s3://sagemaker-us-east-1-499168806556/sagemaker-pytorch-2020-12-23-16-29-02-045/source/sourcedir.tar.gz", "module\_name": "train", "network\_interface\_name": "eth0", "num\_cpus": 4, "num\_gpus": 1, "output\_data\_dir": "/opt/ml/output/data", "output\_dir": "/opt/ml/output", "output\_intermediate\_dir": "/opt/ml/output/intermediate", "resource\_config": { "current\_host": "algo-1", "hosts": [ "algo-1" ], "network\_interface\_name": "eth0" }, "user\_entry\_point": "train.py" |

| 1608741215863 | } |

| 1608741215863 | Environment variables: |

| 1608741215863 | SM\_HOSTS=["algo-1"] |

| 1608741215863 | SM\_NETWORK\_INTERFACE\_NAME=eth0 |

| 1608741215863 | SM\_HPS={"epochs":10,"hidden\_dim":200} |

| 1608741215863 | SM\_USER\_ENTRY\_POINT=train.py |

| 1608741215863 | SM\_FRAMEWORK\_PARAMS={} |

| 1608741215863 | SM\_RESOURCE\_CONFIG={"current\_host":"algo-1","hosts":["algo-1"],"network\_interface\_name":"eth0"} |

| 1608741215863 | SM\_INPUT\_DATA\_CONFIG={"training":{"RecordWrapperType":"None","S3DistributionType":"FullyReplicated","TrainingInputMode":"File"}} |

| 1608741215863 | SM\_OUTPUT\_DATA\_DIR=/opt/ml/output/data |

| 1608741215863 | SM\_CHANNELS=["training"] |

| 1608741215863 | SM\_CURRENT\_HOST=algo-1 |

| 1608741215863 | SM\_MODULE\_NAME=train |

| 1608741215863 | SM\_LOG\_LEVEL=20 |

| 1608741215863 | SM\_FRAMEWORK\_MODULE=sagemaker\_pytorch\_container.training:main |

| 1608741215863 | SM\_INPUT\_DIR=/opt/ml/input |

| 1608741215863 | SM\_INPUT\_CONFIG\_DIR=/opt/ml/input/config |

| 1608741215863 | SM\_OUTPUT\_DIR=/opt/ml/output |

| 1608741215863 | SM\_NUM\_CPUS=4 |

| 1608741215863 | SM\_NUM\_GPUS=1 |

| 1608741215863 | SM\_MODEL\_DIR=/opt/ml/model |

| 1608741215863 | SM\_MODULE\_DIR=s3://sagemaker-us-east-1-499168806556/sagemaker-pytorch-2020-12-23-16-29-02-045/source/sourcedir.tar.gz |

| 1608741215863 | SM\_TRAINING\_ENV={"additional\_framework\_parameters":{},"channel\_input\_dirs":{"training":"/opt/ml/input/data/training"},"current\_host":"algo-1","framework\_module":"sagemaker\_pytorch\_container.training:main","hosts":["algo-1"],"hyperparameters":{"epochs":10,"hidden\_dim":200},"input\_config\_dir":"/opt/ml/input/config","input\_data\_config":{"training":{"RecordWrapperType":"None","S3DistributionType":"FullyReplicated","TrainingInputMode":"File"}},"input\_dir":"/opt/ml/input","is\_master":true,"job\_name":"sagemaker-pytorch-2020-12-23-16-29-02-045","log\_level":20,"master\_hostname":"algo-1","model\_dir":"/opt/ml/model","module\_dir":"s3://sagemaker-us-east-1-499168806556/sagemaker-pytorch-2020-12-23-16-29-02-045/source/sourcedir.tar.gz","module\_name":"train","network\_interface\_name":"eth0","num\_cpus":4,"num\_gpus":1,"output\_data\_dir":"/opt/ml/output/data","output\_dir":"/opt/ml/output","output\_intermediate\_dir":"/opt/ml/output/intermediate","resource\_config":{"current\_host":"algo-1","hosts":["algo-1"],"network\_interface\_name":"eth0"},"user\_entry\_point":"train.py"} |

| 1608741215864 | SM\_USER\_ARGS=["--epochs","10","--hidden\_dim","200"] |

| 1608741215864 | SM\_OUTPUT\_INTERMEDIATE\_DIR=/opt/ml/output/intermediate |

| 1608741215864 | SM\_CHANNEL\_TRAINING=/opt/ml/input/data/training |

| 1608741215864 | SM\_HP\_HIDDEN\_DIM=200 |

| 1608741215864 | SM\_HP\_EPOCHS=10 |

| 1608741215864 | PYTHONPATH=/usr/local/bin:/usr/lib/python36.zip:/usr/lib/python3.6:/usr/lib/python3.6/lib-dynload:/usr/local/lib/python3.6/dist-packages:/usr/lib/python3/dist-packages |

| 1608741215864 | Invoking script with the following command: |

| 1608741215864 | /usr/bin/python -m train --epochs 10 --hidden\_dim 200 |

| 1608741217864 | Using device cuda. |

| 1608741217864 | Get train data loader. |

| 1608741221866 | Model loaded with embedding\_dim 32, hidden\_dim 200, vocab\_size 5000. |

| 1608741238870 | Epoch: 1, BCELoss: 0.6769073045983607 |

| 1608741254876 | Epoch: 2, BCELoss: 0.6407070488345866 |

| 1608741271881 | Epoch: 3, BCELoss: 0.5413608052292649 |

| 1608741288885 | Epoch: 4, BCELoss: 0.45980387439533155 |

| 1608741305890 | Epoch: 5, BCELoss: 0.39614154611315044 |

| 1608741322894 | Epoch: 6, BCELoss: 0.3679036352099205 |

| 1608741339906 | Epoch: 7, BCELoss: 0.34257012423203914 |

| 1608741356910 | Epoch: 8, BCELoss: 0.3110423775351777 |

| 1608741373915 | Epoch: 9, BCELoss: 0.291904801312758 |

| 1608741391920 | Epoch: 10, BCELoss: 0.2690130736754865 |

| 1608741391920 | 2020-12-23 16:36:31,344 sagemaker-containers INFO Reporting training SUCCESS |

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