

Backend Engineer Test Task

After writing modules and tests for them, I wanted to check this program myself.

I have an account on AWS and I created a user for this and gave him rights to the logs.

I launched the program through the terminal with my keys

```
(test-asigment-py3.11) leonidzaitsev@MacBook-Pro-Leonid test_asigment % poetry run python main.py python:3.8-slim "python -c \"import time; counter=0; print('Starting counter...'); [print(counter := counter + 1) or time.sleep(0.1) for _ in range(100)]\"" test-log-group3 test-log-stream3
2024-03-29 05:44:35,671 - INFO - Attempting to run container with image: python:3.8-slim and command: 'python -c "import time; counter=0; print('Starting counter...'); [print(counter := counter + 1) or time.sleep(0.1) for _ in range(100)]"'
2024-03-29 05:44:38,081 - INFO - Container 41625a90495f91420127521d161a422e8c3227a3bc8614fb72f8720f27b03213 is running.
2024-03-29 05:44:38,081 - INFO - Setting up CloudWatch logging
2024-03-29 05:44:38,656 - INFO - Created CloudWatch log group: test-log-group3
2024-03-29 05:44:38,652 - INFO - Created CloudWatch log stream: test-log-stream3
2024-03-29 05:44:48,710 - INFO - Sending logs to CloudWatch: test-log-group3/test-log-stream3
2024-03-29 05:44:48,809 - INFO - Attempting to remove container 41625a90495f91420127521d161a422e8c3227a3bc8614fb72f8720f27b03213 due to cleanup...
2024-03-29 05:44:48,848 - INFO - Container 41625a90495f91420127521d161a422e8c3227a3bc8614fb72f8720f27b03213 successfully removed.
(test-asigment-py3.11) leonidzaitsev@MacBook-Pro-Leonid test_asigment %
```

Then I went to AWS and looked at my logs

CloudWatch > Log groups > test-log-group3 > test-log-stream3

Log events

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Actions ▾

Start tailing

Create metric filter

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

🔍 Filter events - press enter to search

1m1h📅Local timezone ▾Display ▾⚙️

▶	Timestamp	Message
No older events at this moment. Retry		
▶	2024-03-29T05:44:48.391+01:00	Starting counter...
▶	2024-03-29T05:44:48.391+01:00	1
▶	2024-03-29T05:44:48.391+01:00	2
▶	2024-03-29T05:44:48.391+01:00	3
▶	2024-03-29T05:44:48.391+01:00	4
▶	2024-03-29T05:44:48.391+01:00	5
▶	2024-03-29T05:44:48.391+01:00	6
▶	2024-03-29T05:44:48.391+01:00	7
▶	2024-03-29T05:44:48.391+01:00	8
▶	2024-03-29T05:44:48.391+01:00	9
▶	2024-03-29T05:44:48.391+01:00	10
▶	2024-03-29T05:44:48.391+01:00	11
▶	2024-03-29T05:44:48.391+01:00	12