

1. Job failed because of compile errors. [SCREENSHOT01]

The screenshot shows the Aseelthy CI interface. On the left is a sidebar with navigation links: Dashboard, Projects, Insights, Organization Settings, Plan, and a 'CI behind your firewall' section. The main area displays a list of jobs. The 'Back-end build' job is highlighted in red, indicating failure. Below the job list, the terminal output for the 'Back-end build' job is shown. The output includes commands like 'npm audit fix', 'npm run build', and 'npm test'. It shows two errors: 'TS1005: ',' expected.' and 'TS1128: Declaration or statement expected.' The job failed with exit status 2.

```
26: Found 2 errors.
27:
28: npm ERR! code ELIFECYCLE
29: npm ERR! errno 2
30: npm ERR! gles2@1.0.0 build: 'tsc'
31: npm ERR! Exit status 2
32: npm ERR!
33: npm ERR! Failed at the gles2@1.0.0 build script.
34: npm ERR! This is probably not a problem with npm. There is likely additional logging output above.
35:
36: npm ERR! A complete log of this run can be found in:
37: npm ERR! /home/circleci/.npm/_logs/2023-01-01T22_24_10_950Z-debug.log
38:
39: Exited with code exit status 2
40: CircleCI received exit code 2
```

2- Job failed because of unit tests. [SCREENSHOT02] Backend

The screenshot shows the Aseelthy CI interface for a specific job, 'test-backend (7)'. The job is highlighted in red, indicating failure. The main area displays the job details, including the duration (51s / 7m ago), the executor (Docker / Large), the branch (master), the commit (ec56016), and the author (Unit Test Stage added). Below the job details, the terminal output for the 'test-backend' job is shown. The output includes commands like 'npm run build' and 'npm test'. It shows a failure in the unit tests, with the message 'FAIL src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts'. The job failed with exit status 1.

```
266: FAIL src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts
267:   • Employee Remover › when a user activates an employee › should activate the employee from the repository
268:
269:     expect(jest.fn()).toBeCalledWith(...expected)
270:
271:     Expected: 100
272:     Received: 101
273:
274:     Number of calls: 1
275:
276:     33 |
277:     34 | // Assert
278:     35 | expect(employeeRepository.findById).toBeCalledWith(100);
279:     36 |
280:     37 | expect(employeeRepository.save).toBeCalled();
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1287:     1044 |
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1294:     1051 |
1295:     1052 |
1296:
```


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just got easier
Install a more scalable,
Kubernetes-friendly self-
hosted runner in 5 minutes
or less.

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Job

All Pipelines > fed-ci-cd > master > default > scan-frontend (21)

scan-frontend **Failed**

Refresh

More

Duration / Finished
23s / 1m ago

Queued
8 0s

Executor / Resource Class
Docker / Large

Branch
master

Commit
a1e99ae

Author & Message
Scan Stage added

STEPS

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400s

Parallel runs

0 00:01

Use parallelism to run faster tests
Parallelism speeds up tests by splitting them across multiple executors.

Go to Docs

Spin up environment
1s

Preparing environment variables
0s

Checkout code
0s

Restoring cache
5s

Front-end Scan
15s

Your output is too large to display in the browser.
Only the last 400000 characters are displayed.

Download the full output as a file

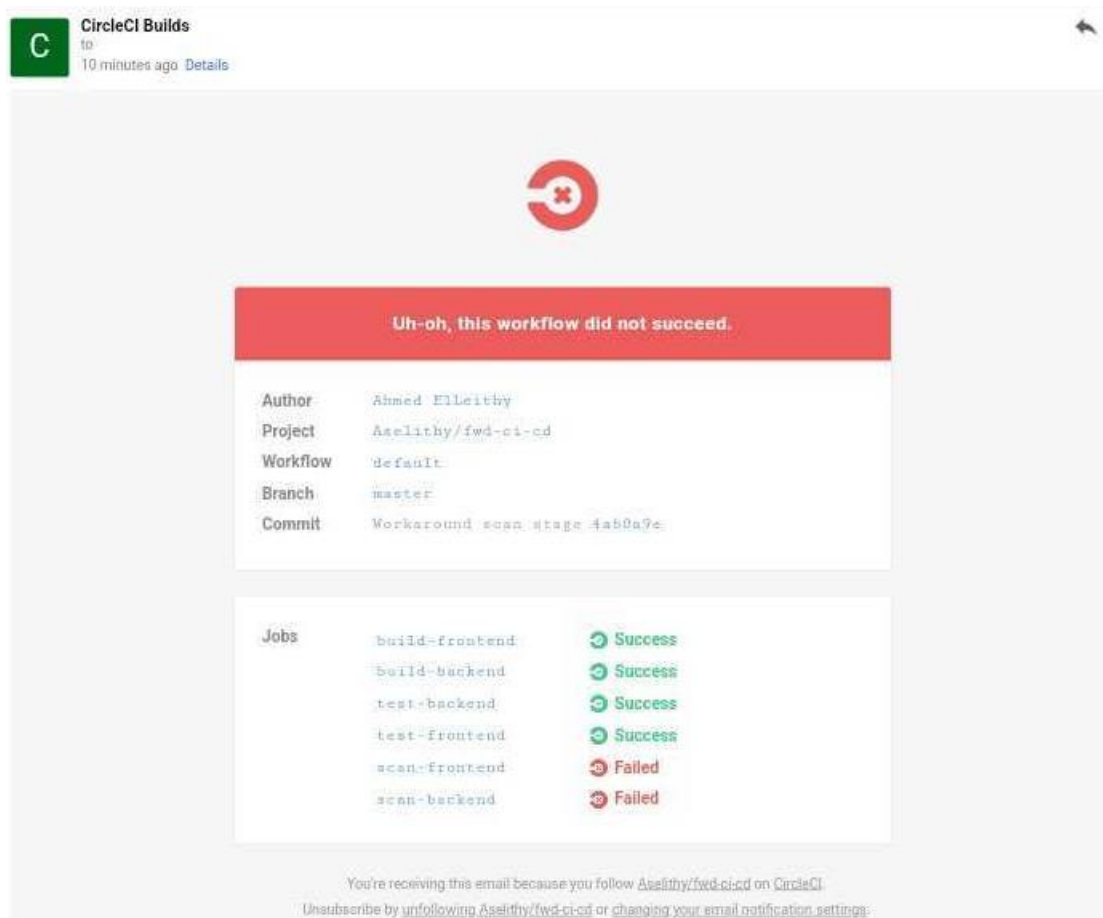
5510 High minisatoh ReDoS vulnerability

5510 Package minisatoh

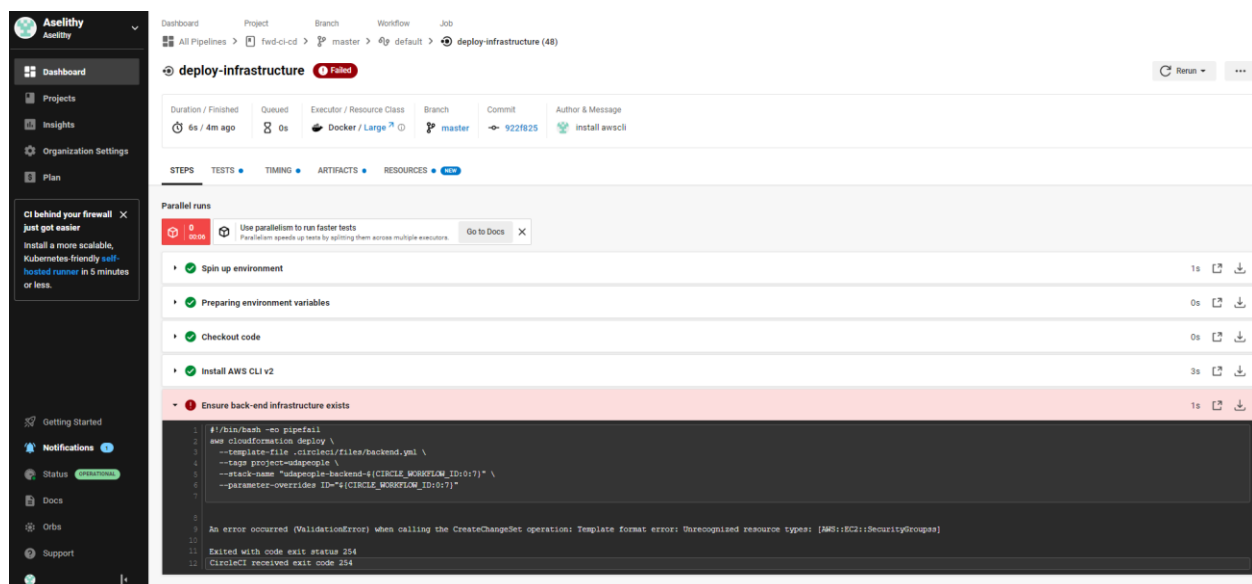
5510 Patched in >=0.0.5

5510 Dependency of webpack-cleanmp-plugin (dev)

4- An alert from one of your failed builds. [SCREENSHOT04]



5- Appropriate job failure for infrastructure creation. [SCREENSHOT05]



6- Appropriate job failure for the smoke test job. [SCREENSHOT06]

The screenshot shows the Aselithy dashboard with a sidebar on the left containing links to Dashboard, Projects, Insights, Organization Settings, and Plan. A notification banner states: "CI behind your firewall X just got easier. Install a more scalable, Kubernetes-friendly self-hosted runner in 5 minutes or less." The main panel displays a job execution log with the following steps:

- Spin up environment (1s)
- Preparing environment variables (0s)
- Checkout code (0s)
- Install AWS CLI v2 (2s)
- Install Node.js 13 (30s)
- Backend smoke test. (1s)
- Frontend smoke test. (0s) - **Failed**
- Destroy environments (3s)
- Revert migrations (0s)

The failed step, "Frontend smoke test", shows the following terminal output:

```
1 #!/bin/bash -eo pipefail
2 FRONTEND_WEBSITE=http://udapeople-${CIRCLE_WORKFLOW_ID:0:7}.s3-website.${AWS_DEFAULT_REGION}.amazonaws.com
3 if curl -s $FRONTEND_WEBSITE | grep "Welcome"
4 then
5     exit 1
6 else
7     exit 2
8 fi
9
10 Welcome
11
12 Exited with code exit status 1
13 CircleCI received exit code 1
```

7- Successful rollback after a failed smoke test. [SCREENSHOT07]

The screenshot shows the Aselithy dashboard with the same sidebar and notification banner. The main panel displays the job execution log, showing the "Frontend smoke test" step as failed. The subsequent steps are:

- Destroy environments (3s)
- Revert migrations (0s)

The "Revert migrations" step shows the following terminal output:

```
1 #!/bin/bash -eo pipefail
2 SUCCESS=$(curl --insecure https://vdb.io/$(RVD_BUCKET)/migration_${CIRCLE_WORKFLOW_ID:0:7})
3 #Logic for reverting the database state
4 if (( $SUCCESS == 1 ));
5 then
6     cd ../project/backend
7     npm install
8     npm run migration:revert
9 fi
10
11 # Total  % Received % Xferd Average Speed Time Time Time Current
12          Dload Upload Total Spent Left Speed
13 100    9 100    9 0 0 60 0 --:--:-- --:--:-- --:--:-- 60
14 /bin/bash: line 2: ((: Not Found == 1 : syntax error in expression (error token is "Found == 1 ")
15 CircleCI received exit code 0
```

8- Successful promotion job. [SCREENSHOT08]

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Job

All Pipelines > fed-ci-cd > master > default > cloudfront-update (229)

cloudfront-update Success

Run

...

Duration / Finished

Queued

Executor / Resource Class

Branch

Commit

Author & Message

4m 17s / 9m ago

0s

Docker / Large

master

4e6423c

cleanup process

STEPS

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NEW

Parallel runs

0 of 16

Use parallelism to run faster tests
Parallelism speeds up tests by splitting them across multiple executors.

Go to Docs

X

Spin up environment

1s

🔗 📄

Preparing environment variables

0s

🔗 📄

Checkout code

0s

🔗 📄

Install AWS CLI v2

2s

🔗 📄

Install Node.js 13

28s

🔗 📄

Save Old Workflow ID to Kvdb.io

0s

🔗 📄

Update cloudfront distribution

3m 42s

🔗 📄

```

1 #!/bin/bash -eo pipefail
2 aws cloudformation deploy \
3   --template-file ci/circleci/files/cloudfront.yml \
4   --parameter-overrides WorkflowId="${CIRCLE_WORKFLOW_ID}" \
5   --stack-name InitialStack
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```

9- Successful cleanup job. [SCREENSHOT09]

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Aselithy

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or less.

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Notifications 1

Status cloudfront-update

Docs

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Support

Dashboard

Project

Branch

Workflow

Job

All Pipelines > fed-ci-cd > master > default > cleanup (229)

cleanup Success

Run

...

Duration / Finished

Queued

Executor / Resource Class

Branch

Commit

Author & Message

34s / 10m ago

0s

Docker / Large

master

4e6423c

cleanup process

STEPS

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RESOURCES

NEW

Parallel runs

6 of 16

Use parallelism to run faster tests
Parallelism speeds up tests by splitting them across multiple executors.

Go to Docs

X

Spin up environment

1s

🔗 📄

Preparing environment variables

0s

🔗 📄

Checkout code

0s

🔗 📄

Install AWS CLI v2

2s

🔗 📄

Install Node.js 13

29s

🔗 📄

Remove old stacks and files

0s

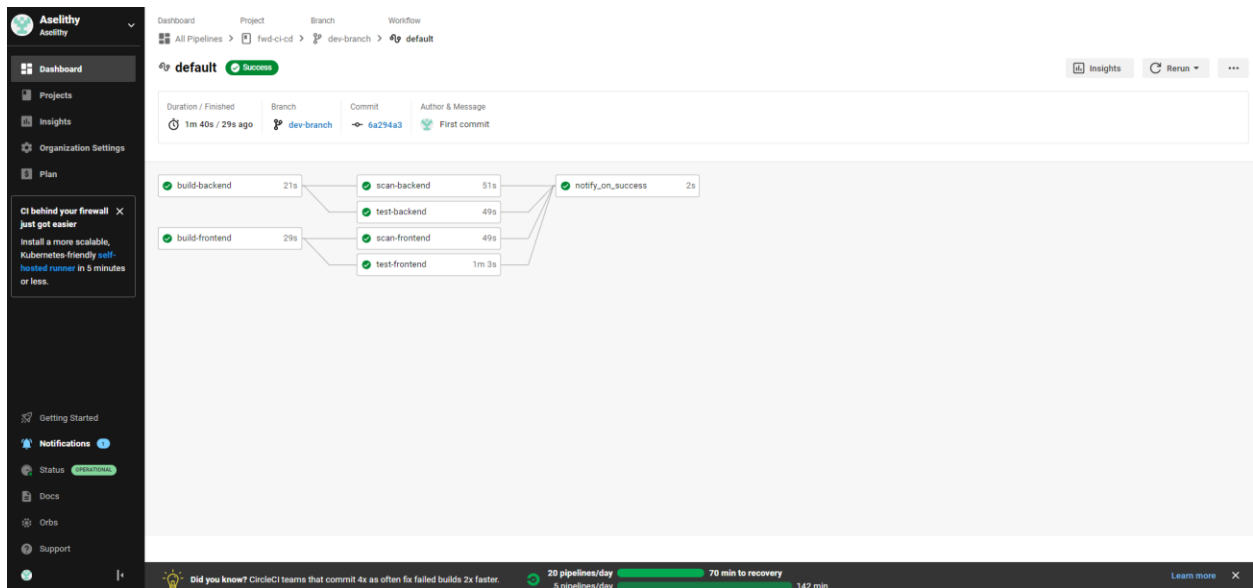
🔗 📄

```

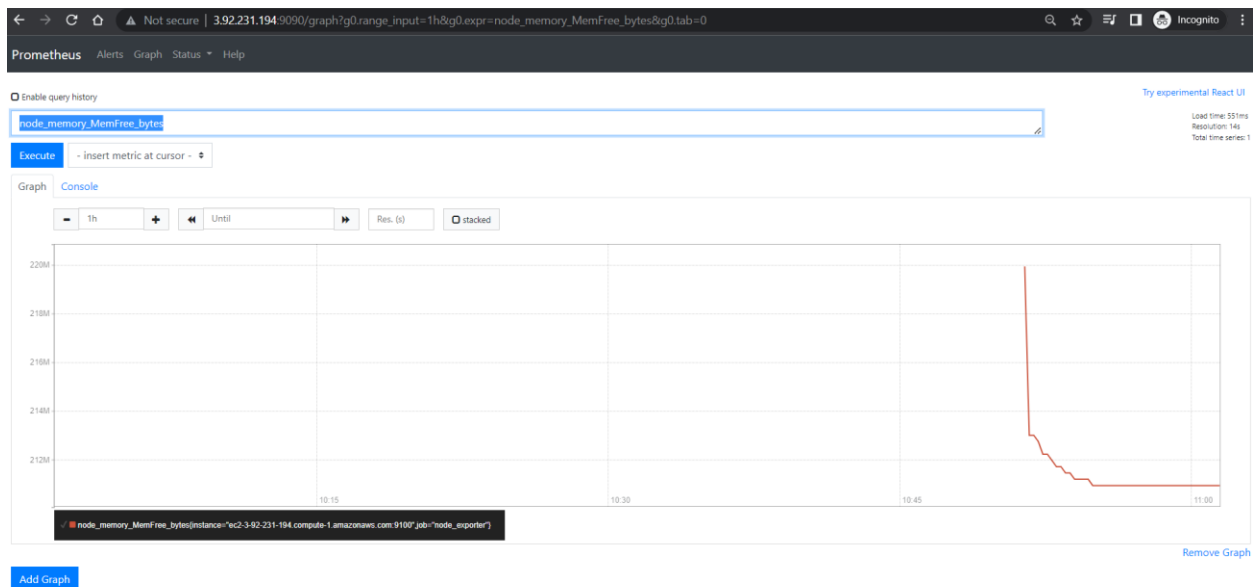
1 #!/bin/bash -eo pipefail
2 export STACK_ID=$(aws cloudformation list-stacks \
3   --query "StackSummaries[*].StackName" \
4   --stack-status-filter CREATE_COMPLETE --no-paginate --output text)
5 echo Stack name: "${STACK_ID}"
6
7 export OldWorkflowId=$(curl --insecure https://kvdb.io/${KVDB_BUCKET}/old_workflow_id)
8 echo Old Workflow ID: ${OldWorkflowId}
9
10 if [[ "${STACK_ID}" == "${OldWorkflowId}" ]]
11 then
12   aws s3 rm "s3://adapeople-${OldWorkflowId}" --recursive
13   aws cloudformation delete-stack --stack-name "adapeople-backend-${OldWorkflowId}"
14   aws cloudformation delete-stack --stack-name "adapeople-frontend-${OldWorkflowId}"
15 fi
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```

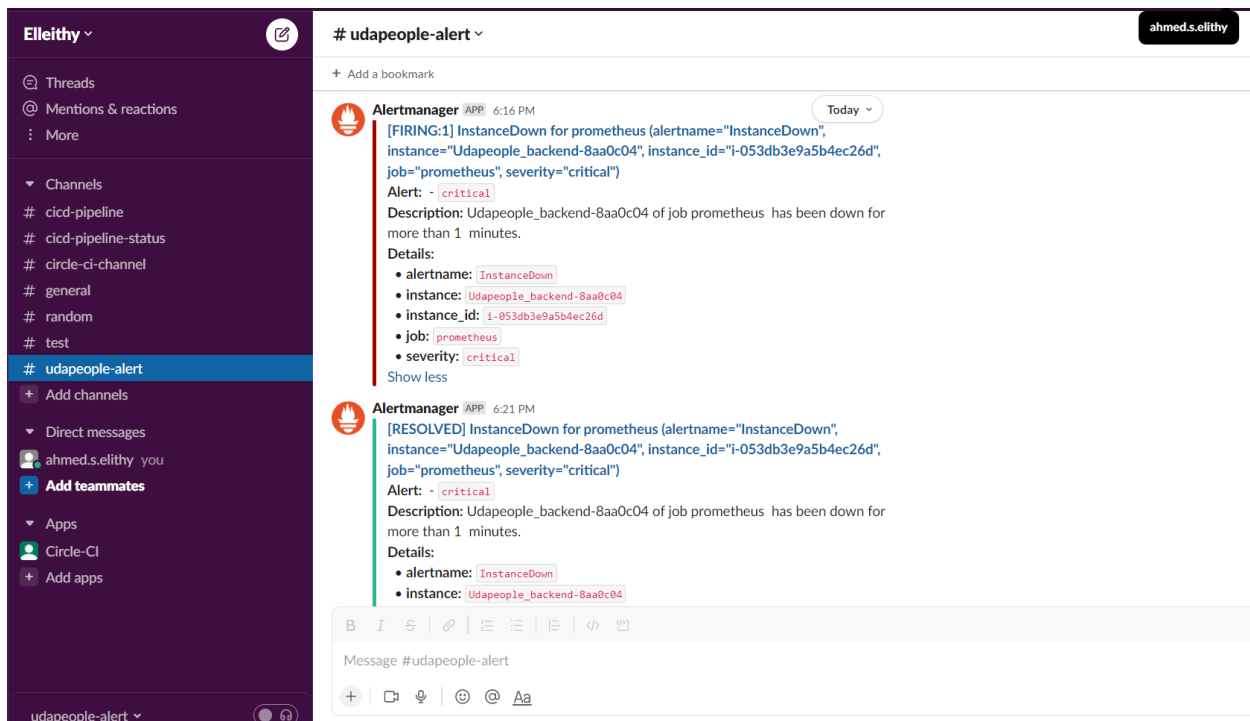
10- Only deploy on pushed to master branch. [SCREENSHOT10]



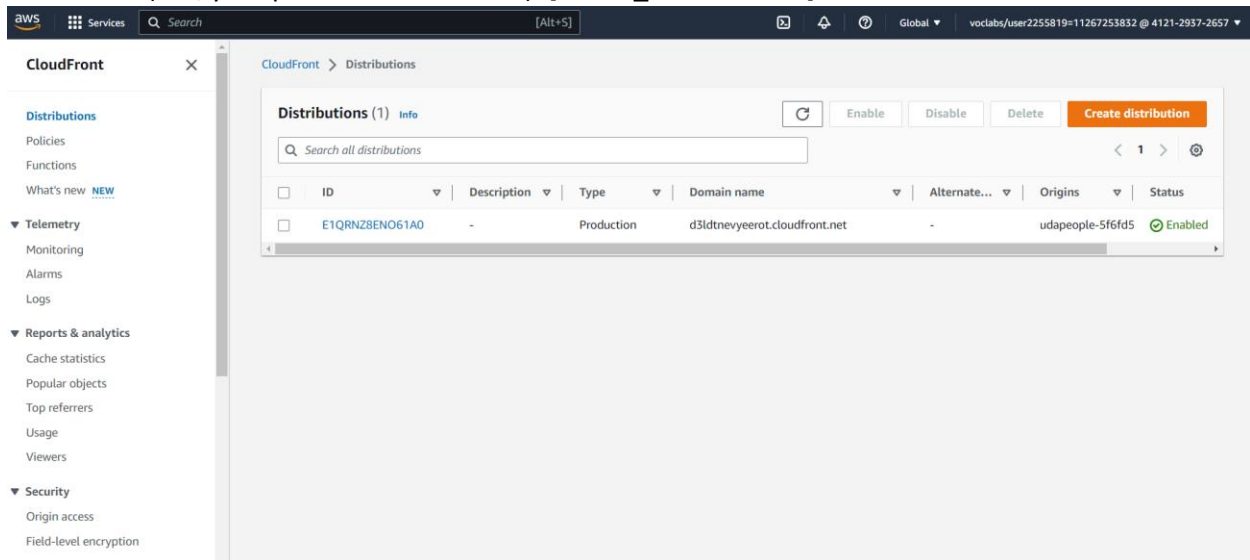
11- Provide a screenshot of a graph of your EC2 instance including available memory, available disk space, and CPU usage. [SCREENSHOT11]



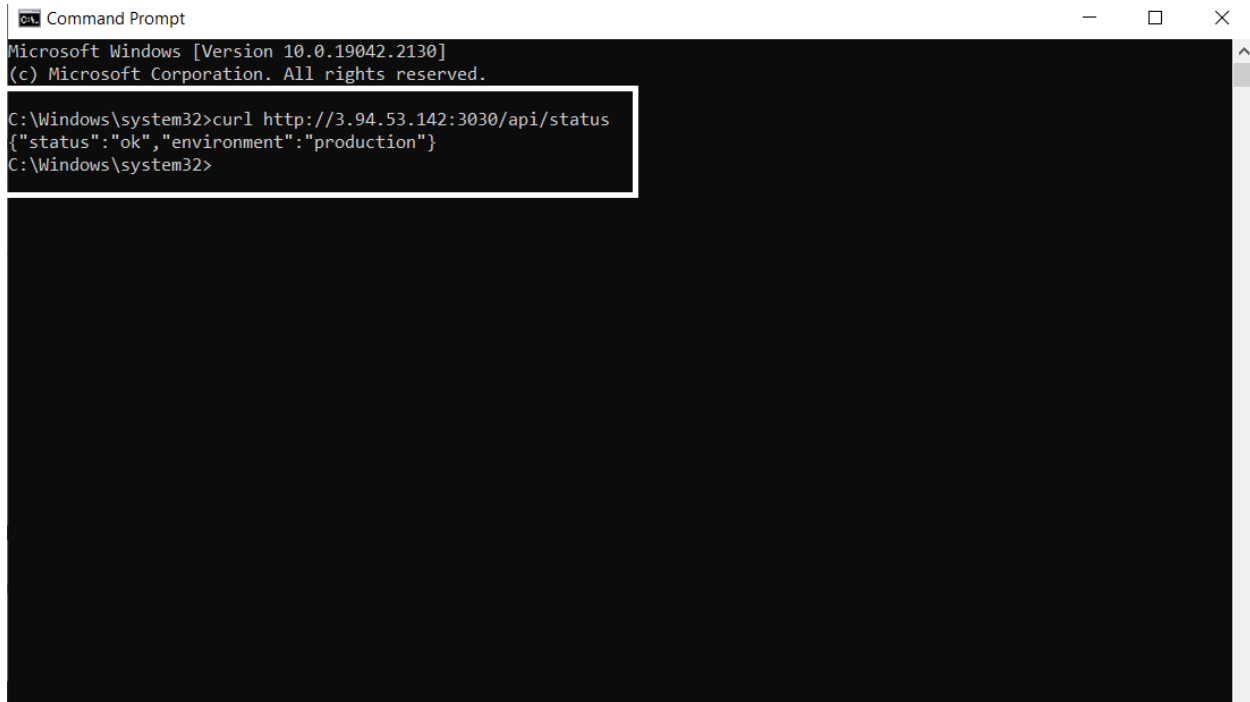
12- Provide a screenshot of an alert that was sent by Prometheus. [SCREENSHOT12]



13- Provide a screenshot showing the evidence of deployed and functioning front-end application in CloudFront (aka, your production front-end). [URL03_SCREENSHOT]



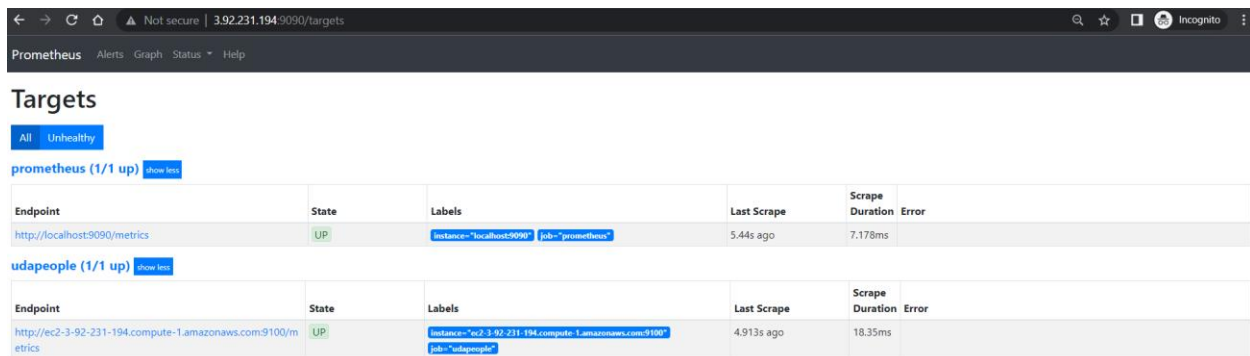
14- Provide a screenshot showing the evidence of a healthy backend application. The backend endpoint status should show a healthy response. [URL04_SCREENSHOT]



```
Microsoft Windows [Version 10.0.19042.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>curl http://3.94.53.142:3030/api/status
{"status":"ok","environment":"production"}
C:\Windows\system32>
```

15- Provide a screenshot of your Prometheus server showing UP state [URL05_SCREENSHOT]



Prometheus Alerts Graph Status Help					
Targets					
All Unhealthy					
prometheus (1/1 up) Show logs					
Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://localhost:9090/metrics	UP	instance="localhost:9090" job="prometheus"	5.44s ago	7.178ms	
udapeople (1/1 up) Show logs					
Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://ec2-3-92-231-194.compute-1.amazonaws.com:9100/metrics	UP	instance="ec2-3-92-231-194.compute-1.amazonaws.com:9100" job="udapeople"	4.913s ago	18.35ms	