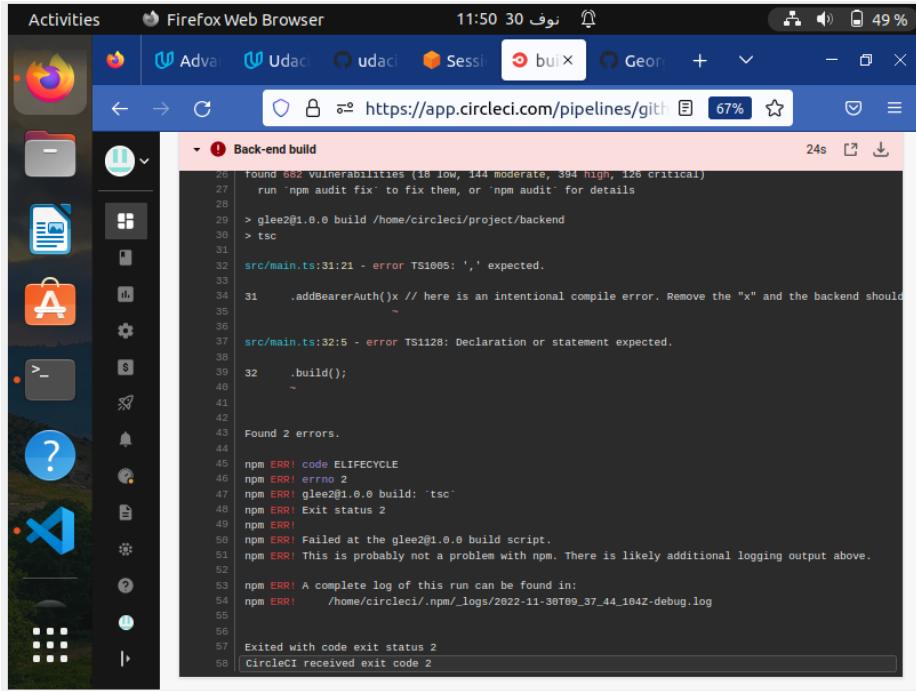


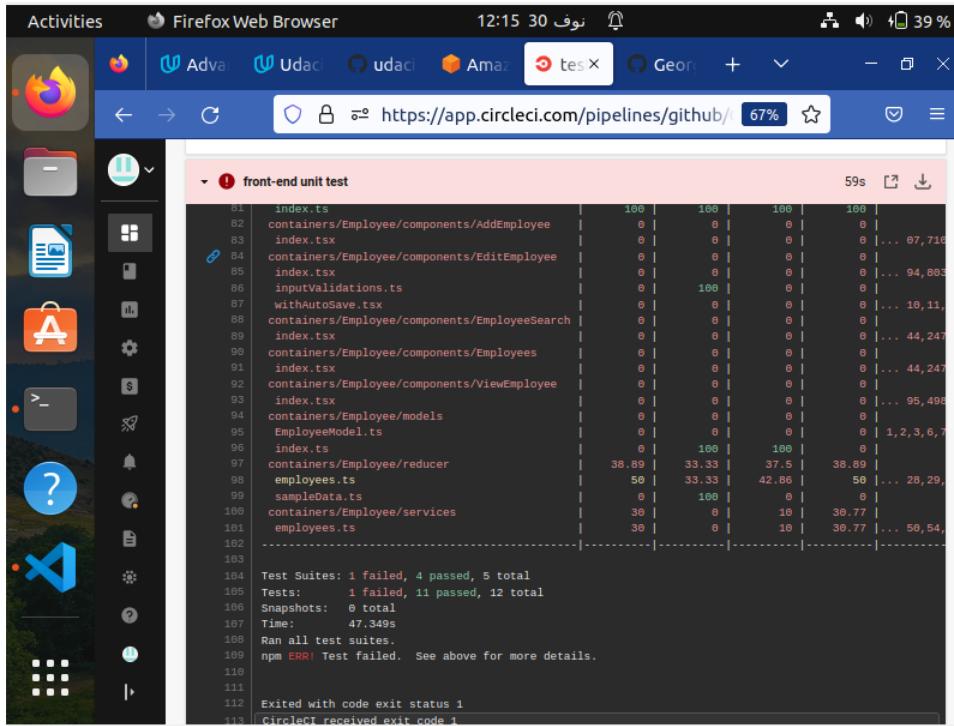
[Udapeople-proj](#) Screenshots

Screenshot 1: build-backend job failure



```
Back-end build
24s
26 found 682 vulnerabilities (18 low, 144 moderate, 394 high, 126 critical)
27   run `npm audit fix` to fix them, or `npm audit` for details
28
29 > glee2@1.0.0 build /home/circleci/project/backend
30 > tsc
31
32 src/main.ts:31:21 - error TS1005: ',' expected.
33
34     .addBearerAuth()x // here is an intentional compile error. Remove the "x" and the backend should
35     ~
36
37 src/main.ts:32:5 - error TS1128: Declaration or statement expected.
38
39     .build();
40     ~
41
42 Found 2 errors.
43
44 npm ERR! code EILFECYCLE
45 npm ERR! errno 2
46 npm ERR! glee2@1.0.0 build: `tsc`
47 npm ERR! Exit status 2
48 npm ERR!
49 npm ERR! Failed at the glee2@1.0.0 build script.
50 npm ERR! This is probably not a problem with npm. There is likely additional logging output above.
51
52 npm ERR! A complete log of this run can be found in:
53 npm ERR!   /home/circleci/.npm/_logs/2022-11-30T09_37_44_104Z-debug.log
54
55
56
57 Exited with code exit status 2
58 CircleCI received exit code 2
```

Screenshot 2: test-frontend and test-backend jobs failed



```
front-end unit test
59s
61 index.ts | 100 | 100 | 100 | 100 |
62 containers/Employee/components/AddEmployee | 0 | 0 | 0 | 0 |
63 index.tsx | 0 | 0 | 0 | 0 |
64 containers/Employee/components/EditEmployee | 0 | 0 | 0 | 0 |
65 index.tsx | 0 | 0 | 0 | 0 |
66 inputValidations.ts | 0 | 100 | 0 | 0 |
67 withAutoSave.tsx | 0 | 0 | 0 | 0 |
68 containers/Employee/components/EmployeeSearch | 0 | 0 | 0 | 0 |
69 index.tsx | 0 | 0 | 0 | 0 |
70 containers/Employee/components/Employees | 0 | 0 | 0 | 0 |
71 index.tsx | 0 | 0 | 0 | 0 |
72 containers/Employee/components/ViewEmployee | 0 | 0 | 0 | 0 |
73 index.tsx | 0 | 0 | 0 | 0 |
74 containers/Employee/models | 0 | 0 | 0 | 0 |
75 EmployeeModel.ts | 0 | 0 | 0 | 0 |
76 index.ts | 0 | 100 | 100 | 0 |
77 containers/Employee/reducer | 38.89 | 33.33 | 37.5 | 38.89 |
78 employees.ts | 50 | 33.33 | 42.86 | 50 | ... 28,29,
79 sampleData.ts | 0 | 100 | 0 | 0 |
80 containers/Employee/services | 30 | 0 | 10 | 30.77 |
81 employees.ts | 30 | 0 | 10 | 30.77 | ... 58,54,
82
83
84 Test Suites: 1 failed, 4 passed, 5 total
85 Tests: 1 failed, 11 passed, 12 total
86 Snapshots: 0 total
87 Time: 47.349s
88 Ran all test suites.
89 npm ERR! Test failed. See above for more details.
90
91
92 Exited with code exit status 1
93 CircleCI received exit code 1
```

```

Activities Firefox Web Browser 12:17 ٣٠ نوف 41 %
Adva Udac udaci Amaz tesx Geor + - ×
https://app.circleci.com/pipelines/github/... 67% 48s ⌂ ⌂
! back-end unit test
Summary of all failing tests
FAIL src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts
  Employee Remover > when a user activates an employee > should activate the employee from the repos
    expect(jest.fn()).toBeCalledWith(...expected)

      Expected: 100
      Received: 101

    Number of calls: 1

      33 |
      34 |       // Assert
      > 35 |       expect(employeeRepository.findById).toBeCalledWith(100);
      |           ^
      36 |       expect(employeeRepository.save).toBeCalled();
      37 |     );
      38 |   });

      at src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts:35:43
      at fulfilled (src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts:35:43)
      at processTicksAndRejections (internal/process/task_queues.js:43:5)

Test Suites: 1 failed, 50 passed, 51 total
Tests:    1 failed, 78 passed, 79 total
Snapshots: 0 total
Time:    38.54s
Ran all test suites.
npm ERR! Test failed. See above for more details.

Exited with code exit status 1
CircleCI received exit code 1

```

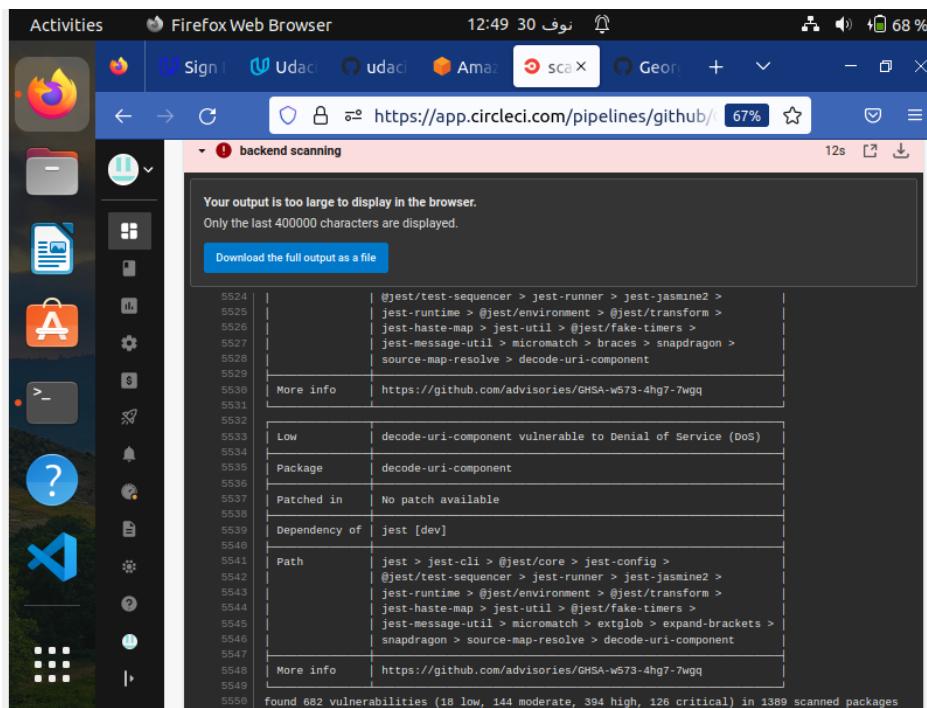
Screenshot 3 : scan-frontend and scan-backend jobs failure

```

Activities Firefox Web Browser 12:36 ٣٠ نوف 56 %
Adva Udac udaci Amaz scax Geor + - ×
https://app.circleci.com/pipelines/github/... 67% 13s ⌂ ⌂
! frontend scanning
Your output is too large to display in the browser.
Only the last 400000 characters are displayed.
Download the full output as a file

5539 |     | @jest/test-sequencer > jest-runner > jest-jasmine2 >
5540 |     | jest-runtime > @jest/environment > @jest/transform >
5541 |     | jest-haste-map > jest-util > @jest/fake-timers >
5542 |     | jest-message-util > micromatch > braces > snapdragon >
5543 |     | source-map-resolve > decode-uri-component
5544 |
5545 | More info | https://github.com/advisories/GHSA-w573-4hg7-7wgq
5546 |
5547 | Low | decode-uri-component vulnerable to Denial of Service (DoS)
5548 |
5549 | Package | decode-uri-component
5550 |
5551 | Patched in | No patch available
5552 |
5553 |
5554 | Dependency of | jest [dev]
5555 |
5556 | Path | jest > jest-cli > @jest/core > jest-config >
5557 |       | @jest/test-sequencer > jest-runner > jest-jasmine2 >
5558 |       | jest-runtime > @jest/environment > @jest/transform >
5559 |       | jest-haste-map > jest-util > @jest/fake-timers >
5560 |       | jest-message-util > micromatch > extglob > expand-brackets >
5561 |       | snapdragon > source-map-resolve > decode-uri-component
5562 |
5563 | More info | https://github.com/advisories/GHSA-w573-4hg7-7wgq
5564 |
5565 | found 709 vulnerabilities (21 low, 184 moderate, 365 high, 139 critical) in 1896 scanned packages

```



Screenshot 4: Email-Alert

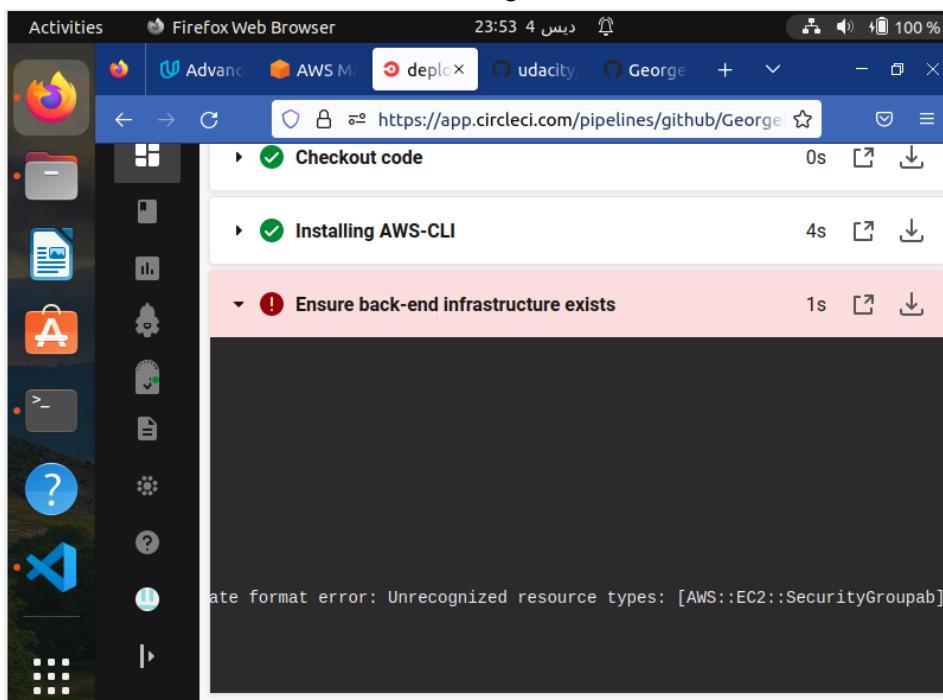
The screenshot shows an email alert from CircleCI. At the top is a red header bar with a large red circular icon containing a white 'X'. Below it is a red banner with the text "Uh-oh, this workflow did not succeed." The main content area has a light gray background and displays the following information:

Author GeorgeMaged
Project GeorgeMaged/udapeople-proj
Workflow default
Branch mast
Commit updating config.yml 92b6bb1

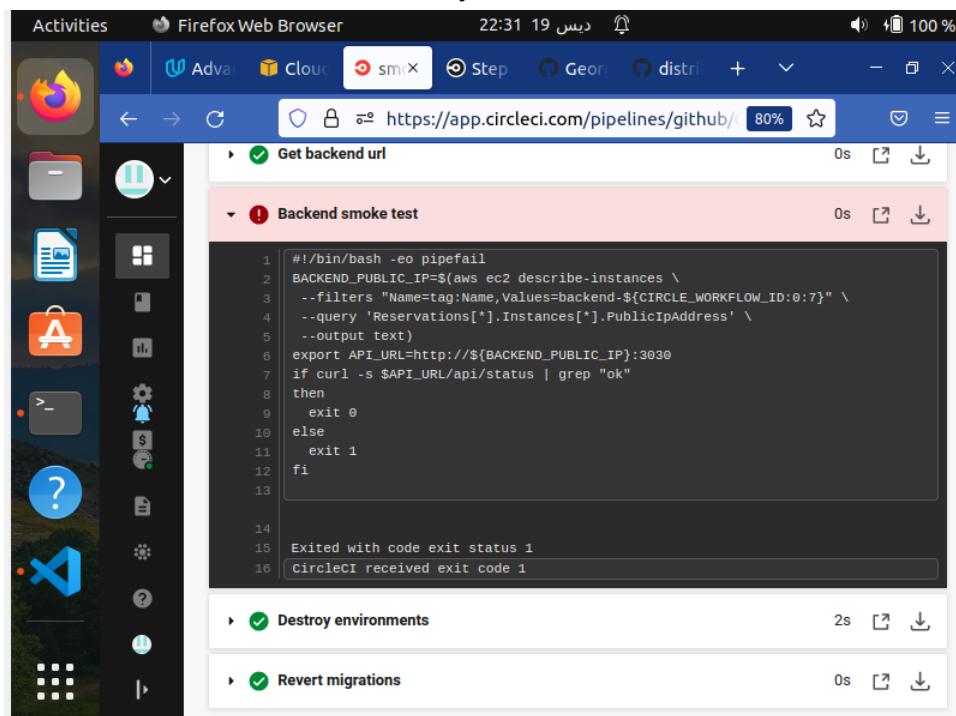
Below this is a table showing job status:

Jobs	Status
build-backend	Success
t	Success
scan-backend	Failed
build-front...	Success
scan-front...	Failed
t	Success

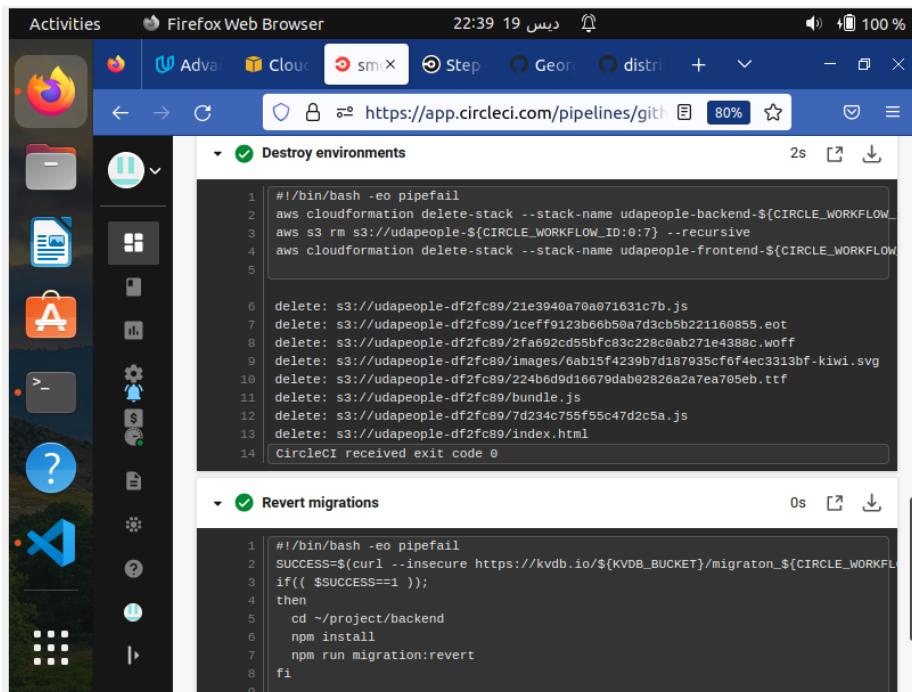
Screenshot 5 : Intentional error in configuration



Screenshot 6: Backend smoke test job failure



Screenshot 7: Successful Rollback



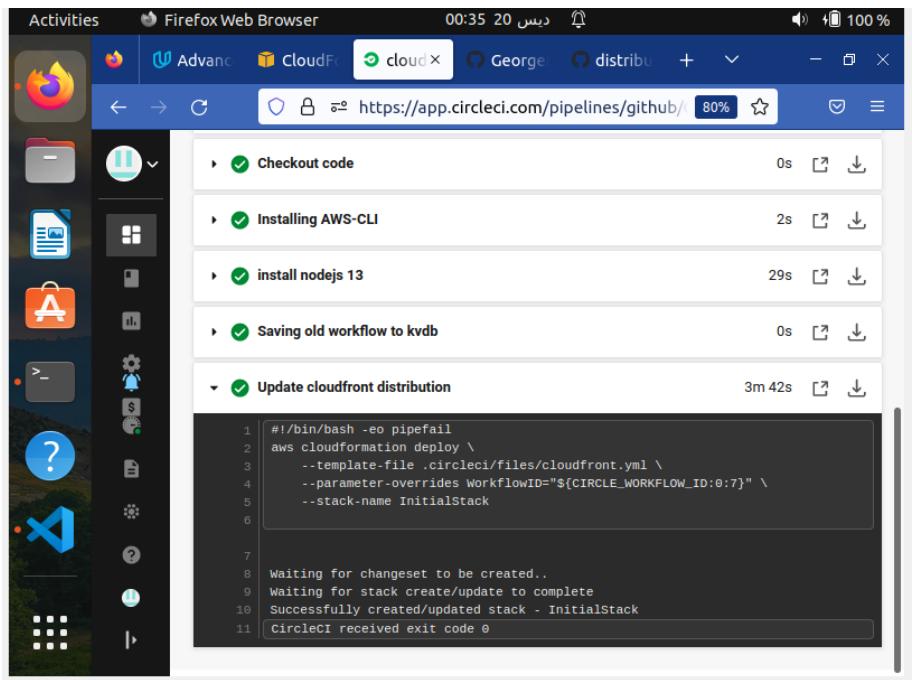
```
#!/bin/bash -eo pipefail
aws cloudformation delete-stack --stack-name udapeople-backend-${CIRCLE_WORKFLOW_ID:0:7}
aws s3 rm s3://udapeople-$[CIRCLE_WORKFLOW_ID:0:7] --recursive
aws cloudformation delete-stack --stack-name udapeople-frontend-${CIRCLE_WORKFLOW_ID:0:7}

delete: s3://udapeople-df2fc89/2ie3940a70a071631c7b.js
delete: s3://udapeople-df2fc89/iceff0123b66b50a7d3cb5b221160855.eot
delete: s3://udapeople-df2fc89/2fa692cd55fc83c228c0ab271e4388c.woff
delete: s3://udapeople-df2fc89/images/6ab15f4239b7d187935cf6f4ec3313bf-kiwi.svg
delete: s3://udapeople-df2fc89/224b6d9d16679dab02826a2a7ea705eb.ttf
delete: s3://udapeople-df2fc89/bundle.js
delete: s3://udapeople-df2fc89/7d234c755f5c47d2c5a.js
delete: s3://udapeople-df2fc89/index.html

circleCI received exit code 0

#!/bin/bash -eo pipefail
SUCCESS=$(curl -s -o /dev/null -w "%{http_code}" https://kvdb.io/${KVDB_BUCKET}/migration_${CIRCLE_WORKFLOW_ID:0:7})
if(( $SUCCESS==1 )); then
    cd ~/project/backend
    npm install
    npm run migration:revert
fi
```

Screenshot 8: Updating cloudfront distribution



```
#!/bin/bash -eo pipefail
aws cloudformation deploy \
--template-file .circleci/files/cloudfront.yml \
--parameter-overrides WorkflowID="${CIRCLE_WORKFLOW_ID:0:7}" \
--stack-name InitialStack

Waiting for changeset to be created..
Waiting for stack create/update to complete
Successfully created/updated stack - InitialStack

circleCI received exit code 0
```

Url02_screenshot: Functioning frontend from S3 Bucket endpoint

Employees / View & Manage

Add New Employee

Display Name	Last Name	Email	Tags	Birthdate	Start Date	Action
Jojo	Maged	j@gmail.com		1/3/2023	1/3/2023	<more></more>
Toto	Maged	t@gmail.com		1/3/2023	1/3/2023	<more></more>

URL03_SCREENSHOT: Production frontend from cloudfront

Employees / View & Manage

Add New Employee

Display Name	Last Name	Email	Tags	Birthdate	Start Date	Action
Jojo	Maged	j@gmail.com		1/3/2023	1/3/2023	<more></more>
Toto	Maged	t@gmail.com		1/3/2023	1/3/2023	<more></more>

URL_04 screenshot: Evidence of healthy backend-application

Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```

status: "ok"
environment: "production"

```

Screenshot 9: Deleting old stacks job done (Successful Cleanup)

```
#!/bin/bash -eo pipefail
export STACKS=$(aws cloudformation list-stacks \
--query "StackSummaries[\"].StackName" \
--stack-status-filter CREATE_COMPLETE --no-paginate --output text)
echo Stack names: "${STACKS[@]}"

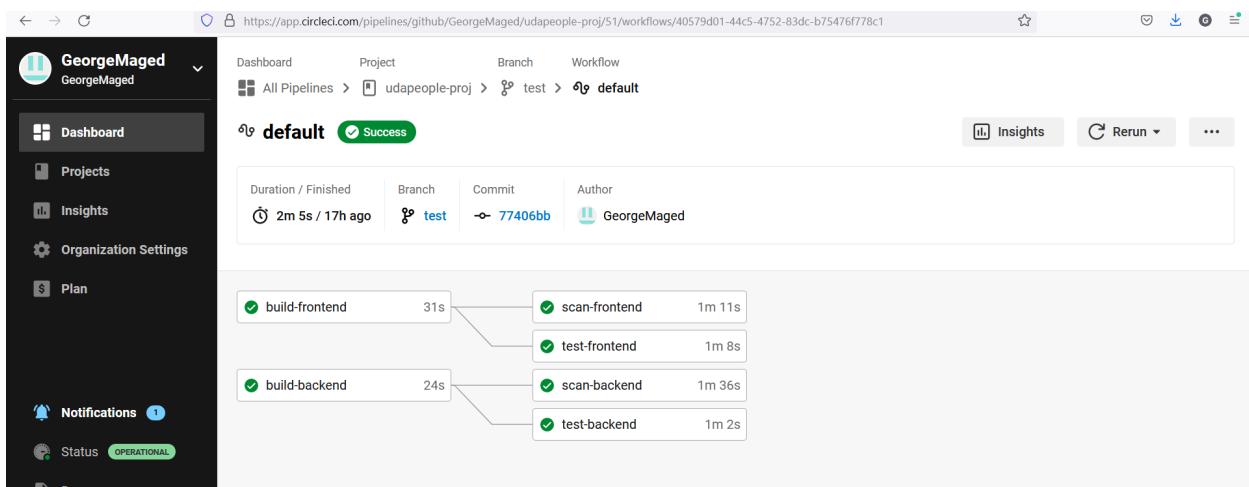
export OldWorkflowID=$(curl --insecure https://kvdb.io/${KVDB_BUCKET}/old_workflow_id)

echo Old Workflow Id: $OldWorkflowID

if [[ "${STACKS[@]}" =~ "${OldWorkflowID}" ]]
then
    aws s3 rm "s3://udapeople-$OldWorkflowID" --recursive
    aws cloudformation delete-stack --stack-name "udapeople-backend-$OldWorkflowID"
    aws cloudformation delete-stack --stack-name "udapeople-frontend-$OldWorkflowID"
fi

Stack names: udapeople-frontend-bbd66a udapeople-backend-bbd66a
% Total % Received % Xferd Average Speed Time Time Current
          Dload Upload Total Spent Left Speed
100 7 100 7 0 0 49 0 -:- -:- -:- -:- 49
Old Workflow Id: d3bf0eb
circleCI received exit code 0
```

Screenshot 10 : *deploy jobs only happen on the master branch*

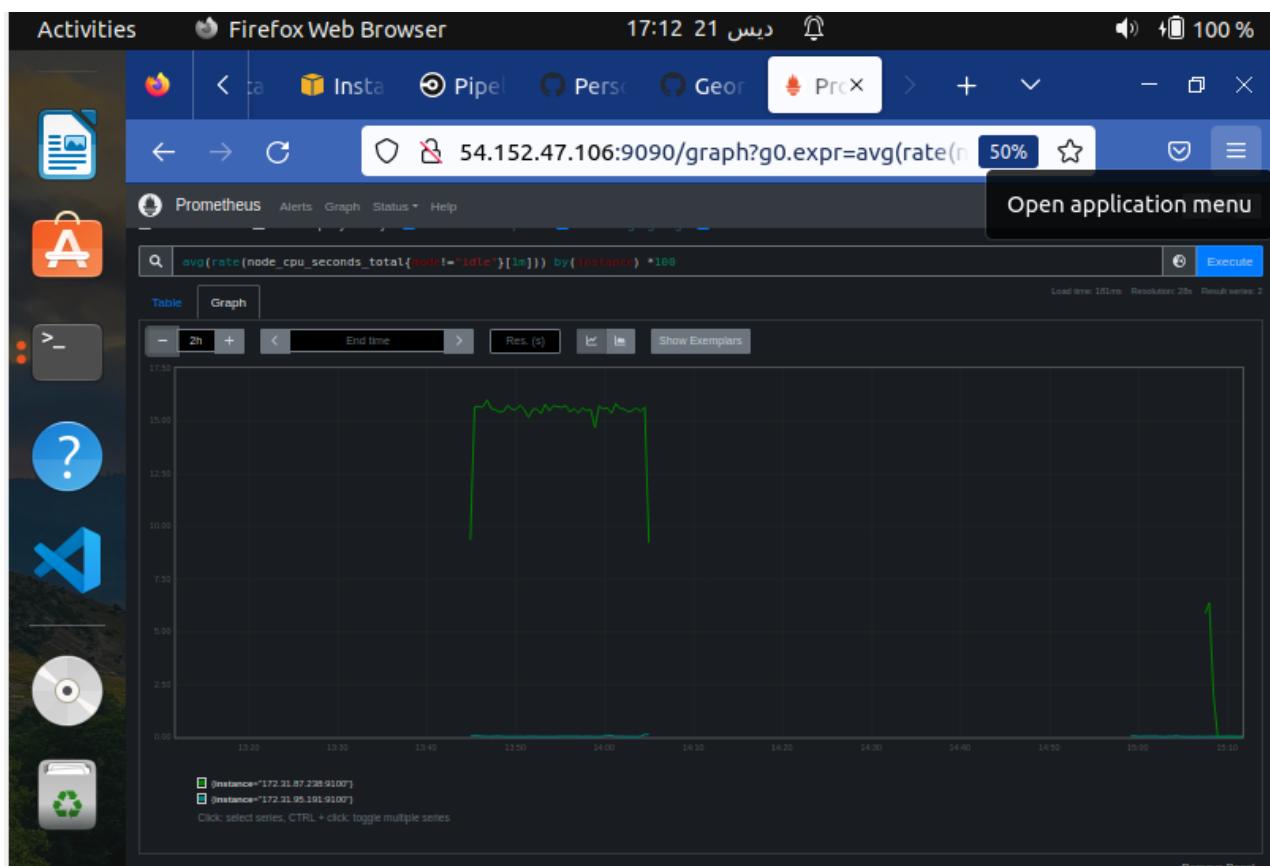


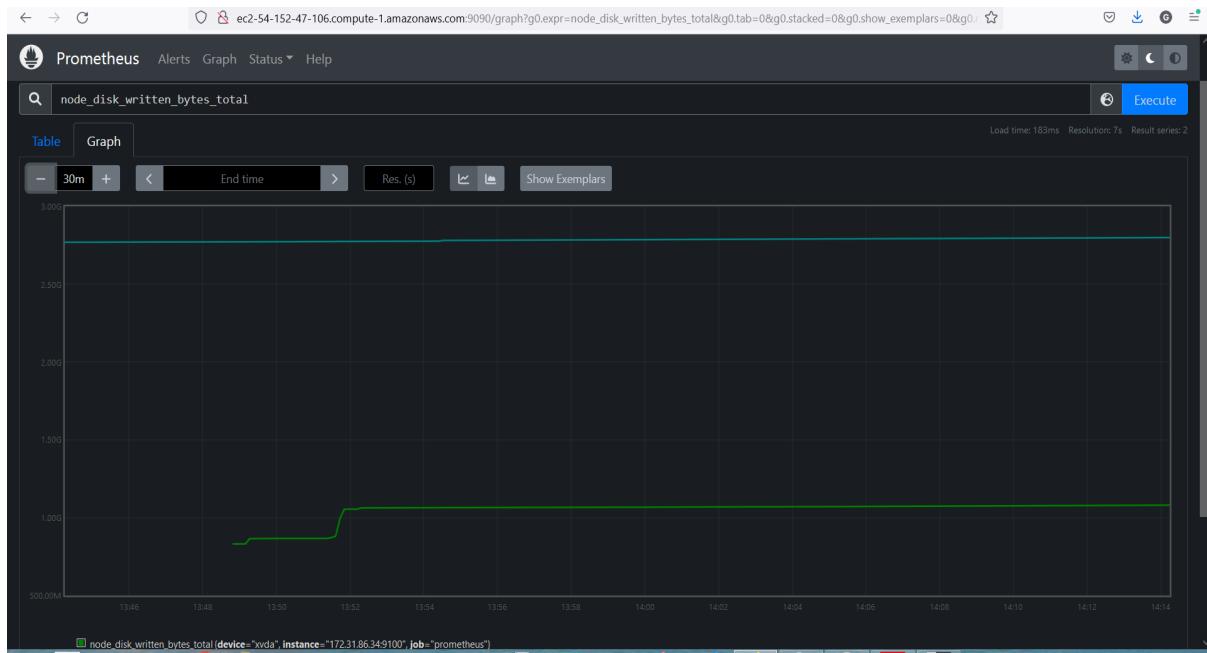
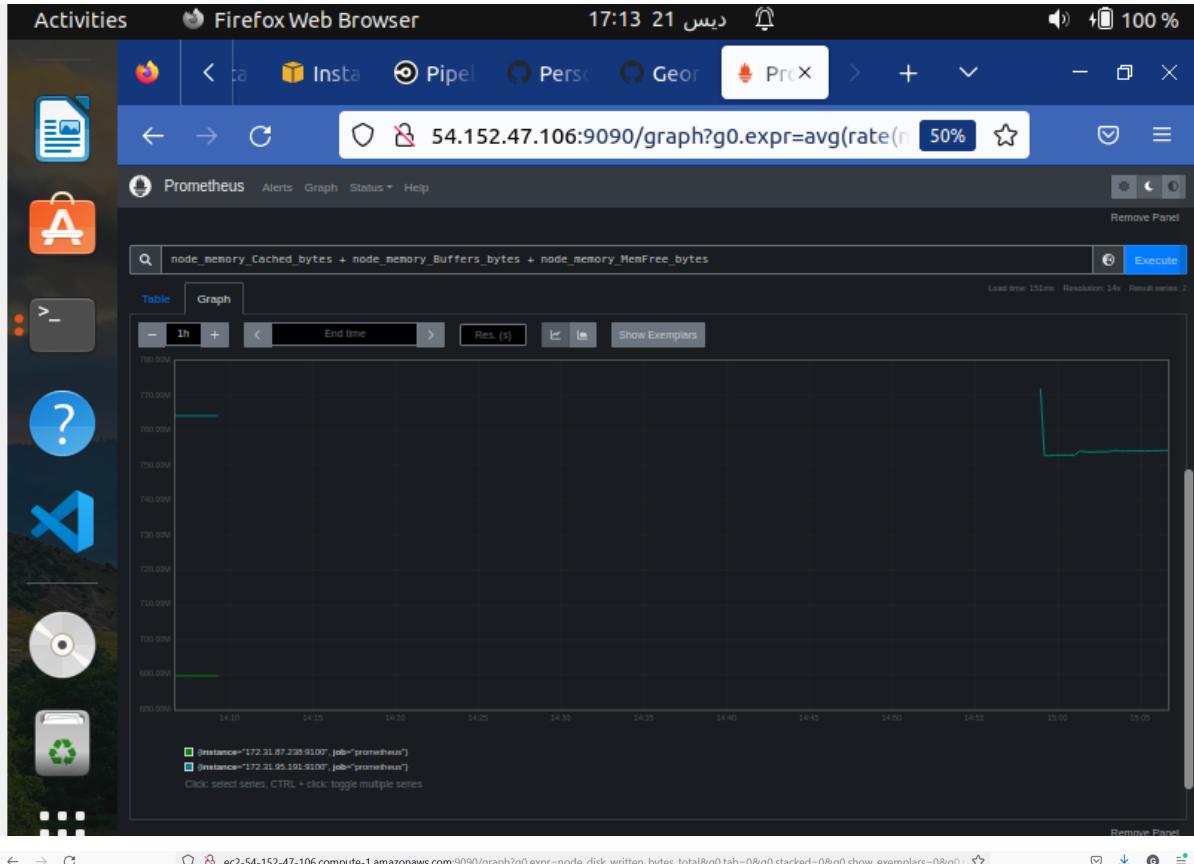
Evidence of Prometheus Server. [URL05_SCREENSHOT].

The screenshot shows the Prometheus Targets page at the URL `54.152.47.106:9090/targets?search=`. The page title is "Targets". There are three tabs at the top: "All" (selected), "Unhealthy", and "Collapse All". A search bar is present with the placeholder "Filter by endpoint or labels". Below the search bar, a section titled "prometheus (2/2 up)" shows two targets:

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
<code>http://172.31.86.34:9100/metrics</code>	UP	<code>instance="172.31.86.34:9100" job="prometheus"</code>	-4.520s ago	187.054ms	
<code>http://172.31.95.191:9100/metrics</code>	UP	<code>instance="172.31.95.191:9100" job="prometheus"</code>	-4.469s ago	12.418ms	

Screenshot 11: Prometheus





Screenshot 12: Alert sent to mail

