



# AWS CLOUD DEVOPS UDACITY NANODEGREE 2022-2023

AHMED ALSAWI

Pipelines - AhmedRAI... build-backend (4) - Al... build-backend (5) - Al... build-backend (7) - Al... test-backend (13) - Al... AhmedRAIsawi/cdond... +

app.circedi.com/pipelines/github/AhmedRAIsawi/cdond-c3-projectstarter/3/workflows/2cef7e49-9525-465a-b717-1754d6bc70c0/jobs/4

ItiUi Software Testing AWS CSS reference - CSS... font | CSS-Tricks Cloud July Cohort How Items Flow Int... W3Schools CSS align... Ahmed Raafat Demo My API Settings —...

**AhmedRAIsawi**  
Ahmed Alsawi

- Dashboard
- Projects
- Insights
- Organization Settings
- Plan

CI behind your firewall just got easier

A more scalable, **container friendly self-hosted runner** is now in open preview

Notifications

### Back-end build

27s

```
28 run `npm audit fix` to fix them, or `npm audit` for details
29
30 > glee2@1.0.0 build /home/circleci/project/backend
31 > tsc
32
33 src/main.ts:31:21 - error TS1005: ',' expected.
34
35 31 .addBearerAuth({x // here is an intentional compile error. Remove the "x" and the backend should compile.
36
37
38 src/main.ts:32:5 - error TS1128: Declaration or statement expected.
39
40 32 .build();
41
42
43
44 Found 2 errors.
45
46 npm ERR! code ELIFECYCLE
47 npm ERR! errno 2
48 npm ERR! glee2@1.0.0 build: `tsc`
49 npm ERR! Exit status 2
50 npm ERR!
51 npm ERR! Failed at the glee2@1.0.0 build script.
52 npm ERR! This is probably not a problem with npm. There is likely additional logging output above.
53
54 npm ERR! A complete log of this run can be found in:
55 npm ERR! /home/circleci/.npm/_logs/2022-09-21T23_36_25_115Z-debug.log
56
```

SCREENSHOT01 EXAMPLE

Pipelines - AhmedRAIsawi/cdond x build-backend (4) - AhmedRAIsa x test-backend (13) - AhmedRAIsa x AhmedRAIsawi/cdond-c3-projec x

app.circeci.com/pipelines/github/AhmedRAIsawi/cdond-c3-projectstarter/7/workflows/ff81d0c1-7229-4d86-bc73-bd489b9eead5/jobs/13

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### Run back-end

40s

```
275
276     33 |
277     34 |         // Assert
278     > 35 |         expect(employeeRepository.findById).toBeCalledWith(100);
279         |                                             ^
280     36 |         expect(employeeRepository.save).toBeCalled();
281     37 |     });
282     38 | });
283
284     at src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts:35:43
285     at fulfilled (src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts:5:58)
286
287
288 Test Suites: 1 failed, 50 passed, 51 total
289 Tests:      1 failed, 78 passed, 79 total
290 Snapshots:  0 total
291 Time:       32.573s
292 Ran all test suites.
293 npm ERR! code ELIFECYCLE
294 npm ERR! errno 1
295 npm ERR! glee2@1.0.0 test: `jest --runInBand`
296 npm ERR! Exit status 1
297 npm ERR!
298 npm ERR! Failed at the glee2@1.0.0 test script.
299 npm ERR! This is probably not a problem with npm. There is likely additional logging output above.
300
301 npm ERR! A complete log of this run can be found in:
302 npm ERR!     /home/circleci/.npm/_logs/2022-09-21T23_56_57_771Z-debug.log
303
```

Windows taskbar: File Explorer, Firefox, Chrome, VS Code, Telegram, WhatsApp, Microphone, Network, ENG, 2:10 AM

SCREENSHOT02 EXAMPLE

scan-backend (35) - AhmedRAlsa...AhmedRAlsa

AhmedRAlsa/cdond-c3-projec

app.circedi.com/pipelines/github/AhmedRAlsa/cdond-c3-projectstarter/11/workflows/d616f274-946b-4a0f-aa89-cdaa8d38959b/jobs/35

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AhmedRAlsa

Ahmed Alsa

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Scan back-end dependencies53s

Manual Review

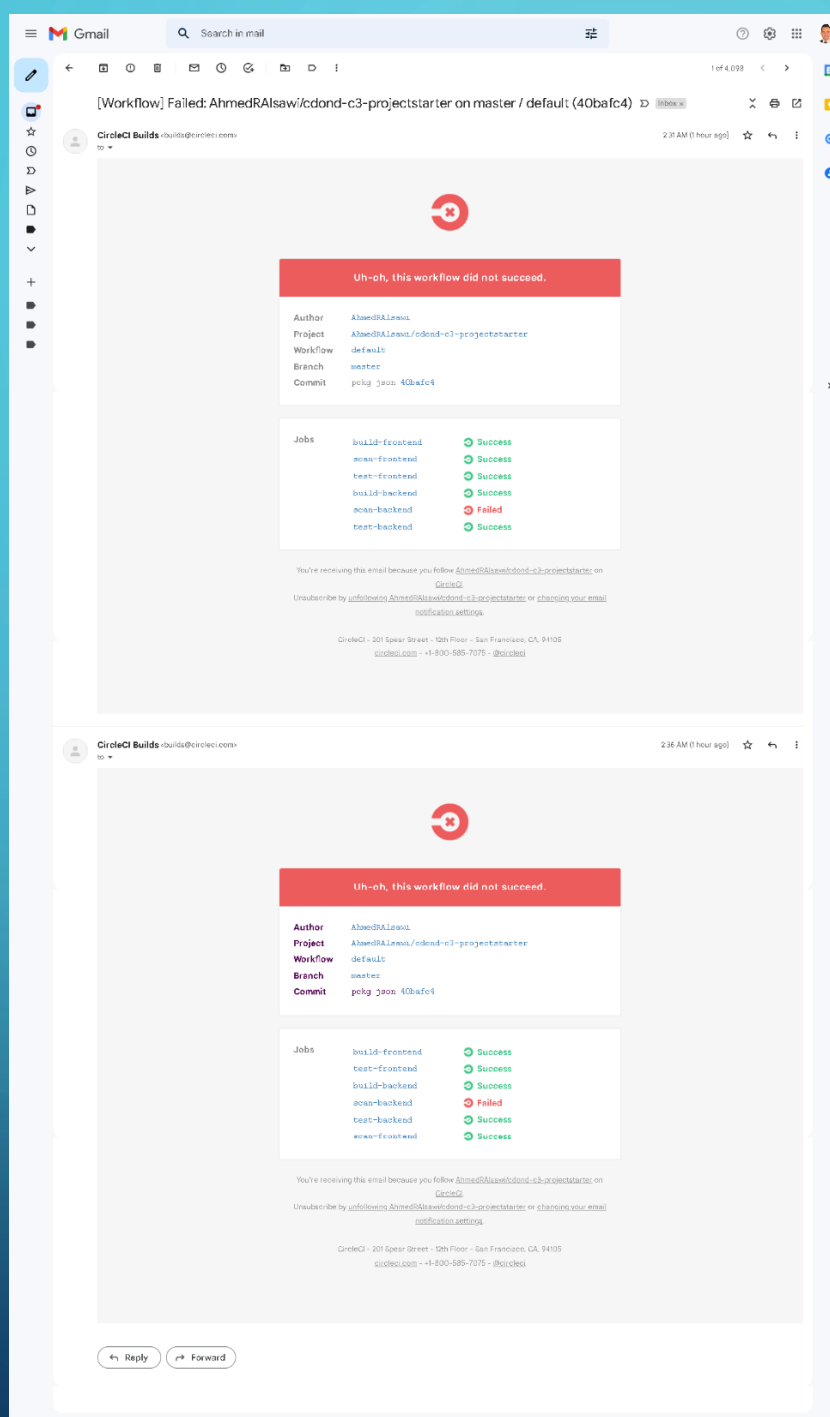
Some vulnerabilities require your attention to resolve

Visit <https://go.npm.me/audit-guide> for additional guidance


Critical	Prototype Pollution in minimist
Package	minimist
Patched in	>=1.2.6
Dependency of	@nestjs/platform-express
Path	@nestjs/platform-express > multer > mkdirp > minimist
More info	<a href="https://github.com/advisories/GHSA-xvch-5gv4-984h">https://github.com/advisories/GHSA-xvch-5gv4-984h</a>

Moderate	Prototype Pollution in minimist
Package	minimist
Patched in	>=0.2.1
Dependency of	@nestjs/platform-express

SCREENSHOT03 EXAMPLE



SCREENSHOT04 EXAMPLE

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smoke-test (357) - AhmedRalsawi

CloudFormation - Stack udapeop




S3 Management Console




Instances | EC2 Management Con




+

app.circedi.com/pipelines/github/AhmedRalsawi/cdond-c3-projectstarter/74/workflows/e3525f12-44db-4524-b254-503302416f80/...




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▶  **Install dependencies** 2s  


▶  **Backend smoke test.** 0s  

▼  **Frontend smoke test.** 0s  

```
1  #!/bin/sh -eo pipefail
2  URL="http://udapeople-${CIRCLE_WORKFLOW_ID:0:7}.s3-website-us-east-1.amazonaws.com/#/employees"
3  echo ${URL}
4  if curl -s ${URL} | grep "Welcome"
5  then
6      # Change this to 0 after the job fails
7      return 1
8  else
9      return 1
10 fi
11
12 http://udapeople-e3525f1.s3-website-*****.amazonaws.com/#/employees
13     Welcome
14
15 Exited with code exit status 1
16 CircleCI received exit code 1
```

▶  **Revert migrations** 0s  

SCREENSHOT06 EXAMPLE

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Ahmed Alsawi

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smoke-test (357) - AhmedRalsawi

CloudFormation - Stack udapeop




S3 Management Console




Instances | EC2 Management Con




+

app.circedi.com/pipelines/github/AhmedRalsawi/cdond-c3-projectstarter/74/workflows/e3525f12-44db-4524-b254-503302416f80/...




ItiUi Software Testing AWS CSS reference - CSS... font | CSS-Tricks Cloud July Cohort How Items Flow Int... W3Schools CSS align... Ahmed Raafat Demo My API Settings —...

▶  **Install dependencies** 2s  

▶  **Backend smoke test.** 0s  

▼  **Frontend smoke test.** 0s  

```
1  #!/bin/sh -eo pipefail
2  URL="http://udapeople-${CIRCLE_WORKFLOW_ID:0:7}.s3-website-us-east-1.amazonaws.com/#/employees"
3  echo ${URL}
4  if curl -s ${URL} | grep "Welcome"
5  then
6      # Change this to 0 after the job fails
7      return 1
8  else
9      return 1
10 fi
11
12 http://udapeople-e3525f1.s3-website-*****.amazonaws.com/#/employees
13     Welcome
14
15 Exited with code exit status 1
16 CircleCI received exit code 1
```

▶  **Revert migrations** 0s  

Windows taskbar: Windows logo, Search, Task View, Firefox, Chrome, VS Code, WhatsApp, Telegram, File Explorer, Settings, System tray (Network, Volume, ENG, 11:47 PM, Notifications)

SCREENSHOT07 EXAMPLE

The screenshot shows a web browser window with several tabs open: 'cloudfront-update (377) - Ahmed...', 'CloudFormation - Stack', 'S3 Management Console', and 'Instances | EC2 Management Console'. The active tab is 'cloudfront-update (377) - Ahmed...', displaying a CircleCI pipeline job. The job title is 'Update cloudfront distribution' with a green checkmark icon and a duration of '4m 13s'. The job output is displayed in a dark-themed terminal window. The output shows a series of commands being executed, including setting environment variables, listing exports, and deploying a CloudFormation stack. The final output indicates that the stack was successfully created/updated and that the CircleCI process received an exit code of 0.

```
1  #!/bin/bash -eo pipefail
2  # your code here
3  export OldWorkflowID=$(aws cloudformation list-exports \
4  --query "Exports[?Name=='WorkflowID'].Value" \
5  --no-paginate --output text)
6  echo $OldWorkflowID >> ~/OldWorkflowID.txt
7  cat ~/OldWorkflowID.txt
8  aws cloudformation deploy \
9  --template-file .circleci/files/cloudfront.yml \
10 --stack-name InitialStack \
11 --parameter-overrides WorkflowID=${CIRCLE_WORKFLOW_ID:0:7} \
12 --tags project=udapeople
13
14 echo $OldWorkflowID >> ~/OldWorkflowID.txt
15 cat ~/OldWorkflowID.txt
16
17 udapeople-236482386845
18
19 Waiting for changeset to be created..
20 Waiting for stack create/update to complete
21 Successfully created/updated stack - InitialStack
22 udapeople-236482386845
23 udapeople-236482386845
24 CircleCI received exit code 0
```

SCREENSHOT08 EXAMPLE



## SCREENSHOT09 EXAMPLE

Workflow - cdond-c3-projectstar x CloudFormation - Stack x S3 Management Console x +

app.circedi.com/pipelines/github/AhmedRAIsawi/cdond-c3-projectstarter/104/workflows/0a819a77-5cb8-4a57-8118-a62988e38f24

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AhmedRAIsawi Ahmed Alsawi

Dashboard Projects Insights Organization Settings Plan

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Dashboard Project Branch Workflow

All Pipelines > cdond-c3-projectstarter > dev-branch > default

default Success

Insights Rerun ...

Duration / Finished	Branch	Commit	Author & Message
2m 8s / 34s ago	dev-branch	14e4166	only dev branch final trail

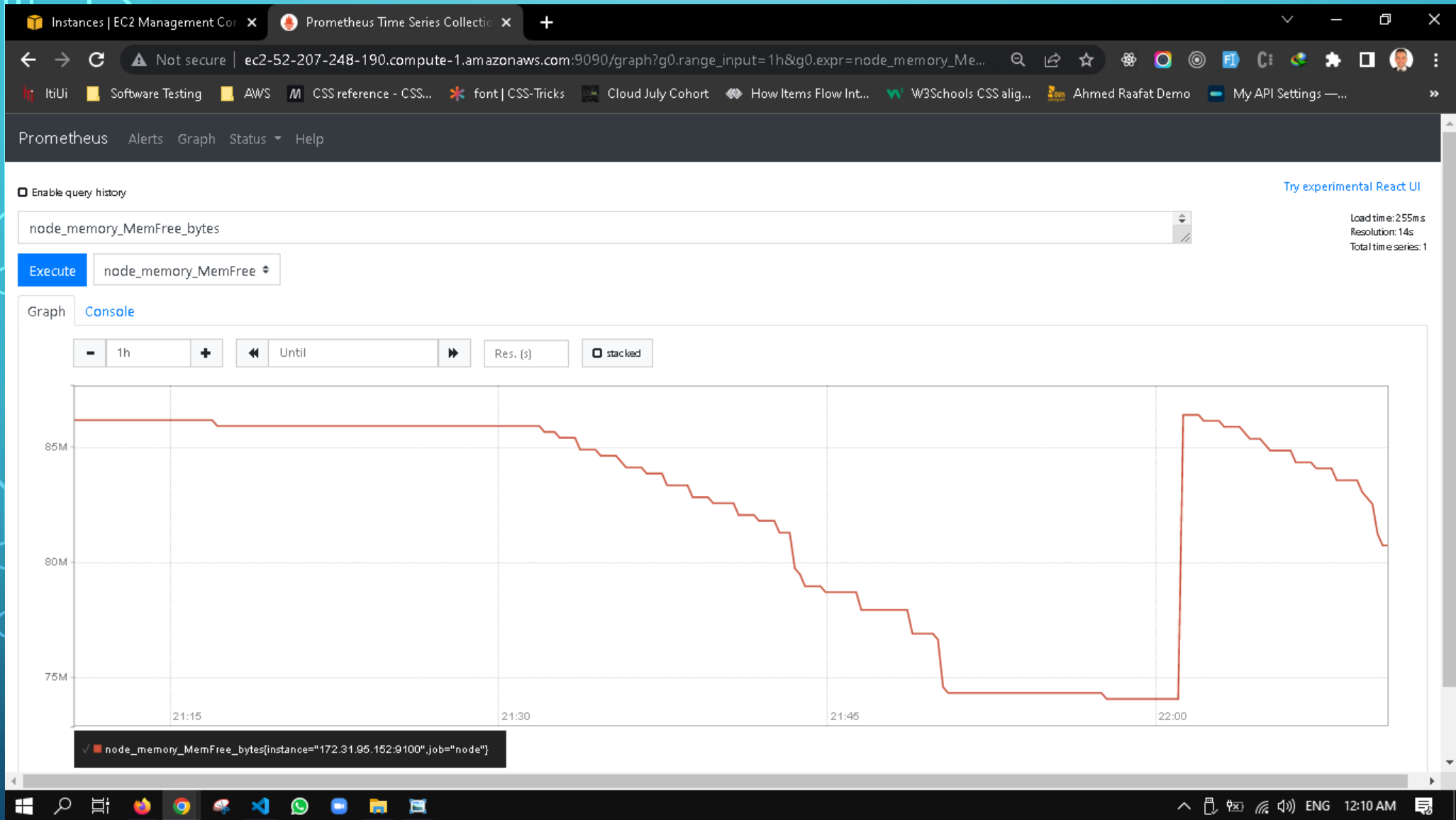
build-frontend 40s scan-frontend 1m 3s

test-frontend 1m 22s

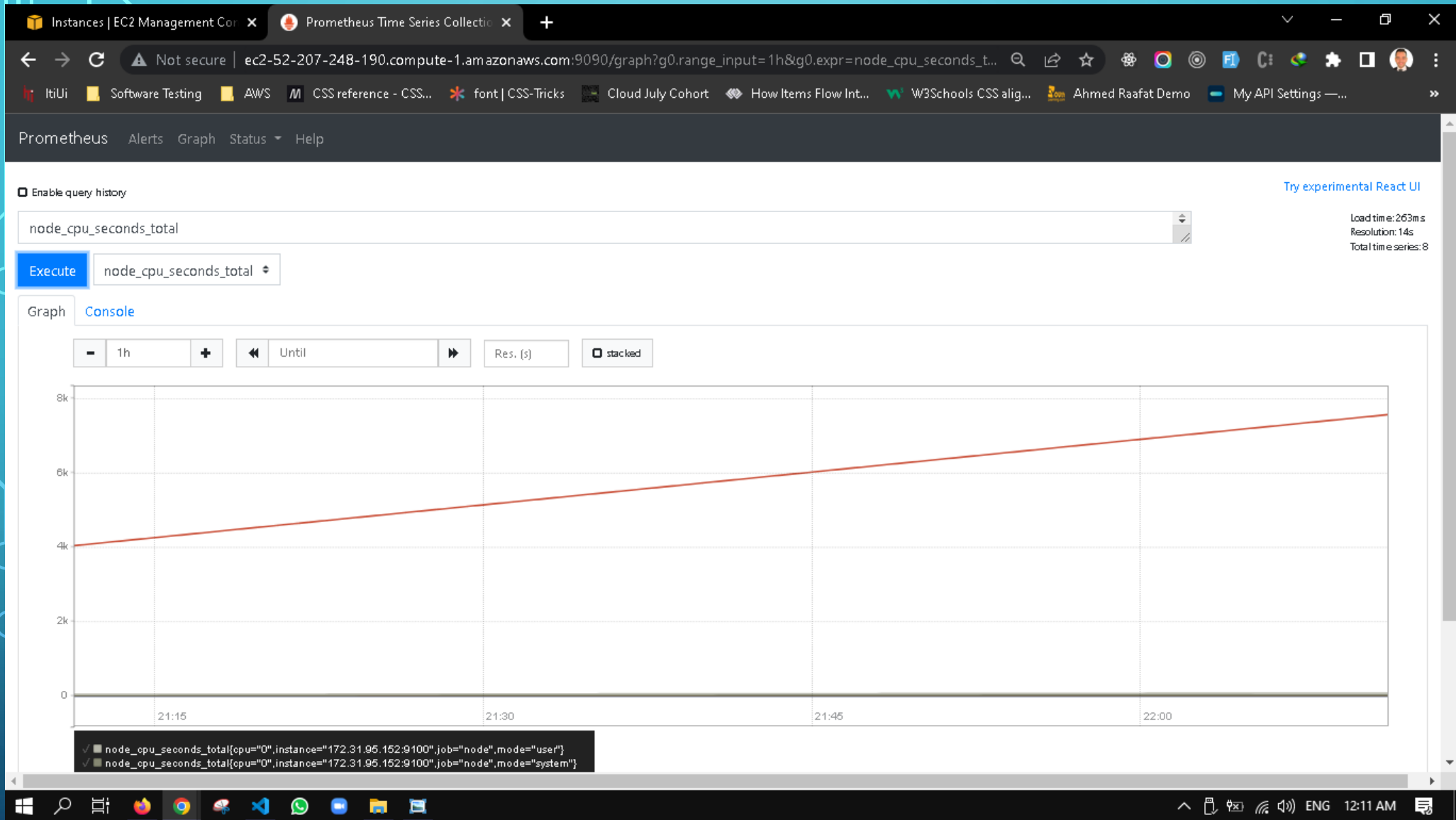
build-backend 33s scan-backend 1m 13s

test-backend 1m 1s

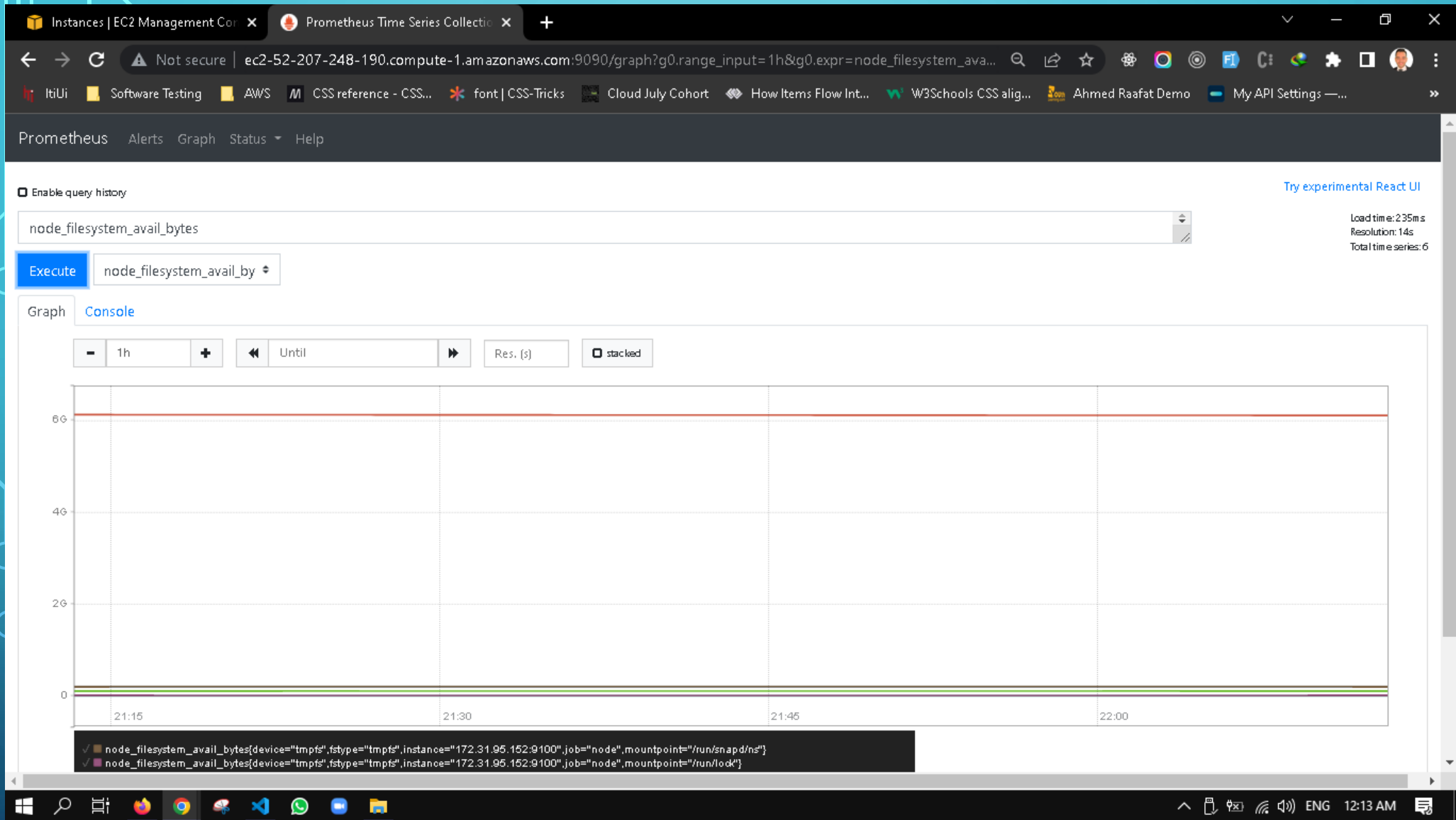
SCREENSHOT10 EXAMPLE



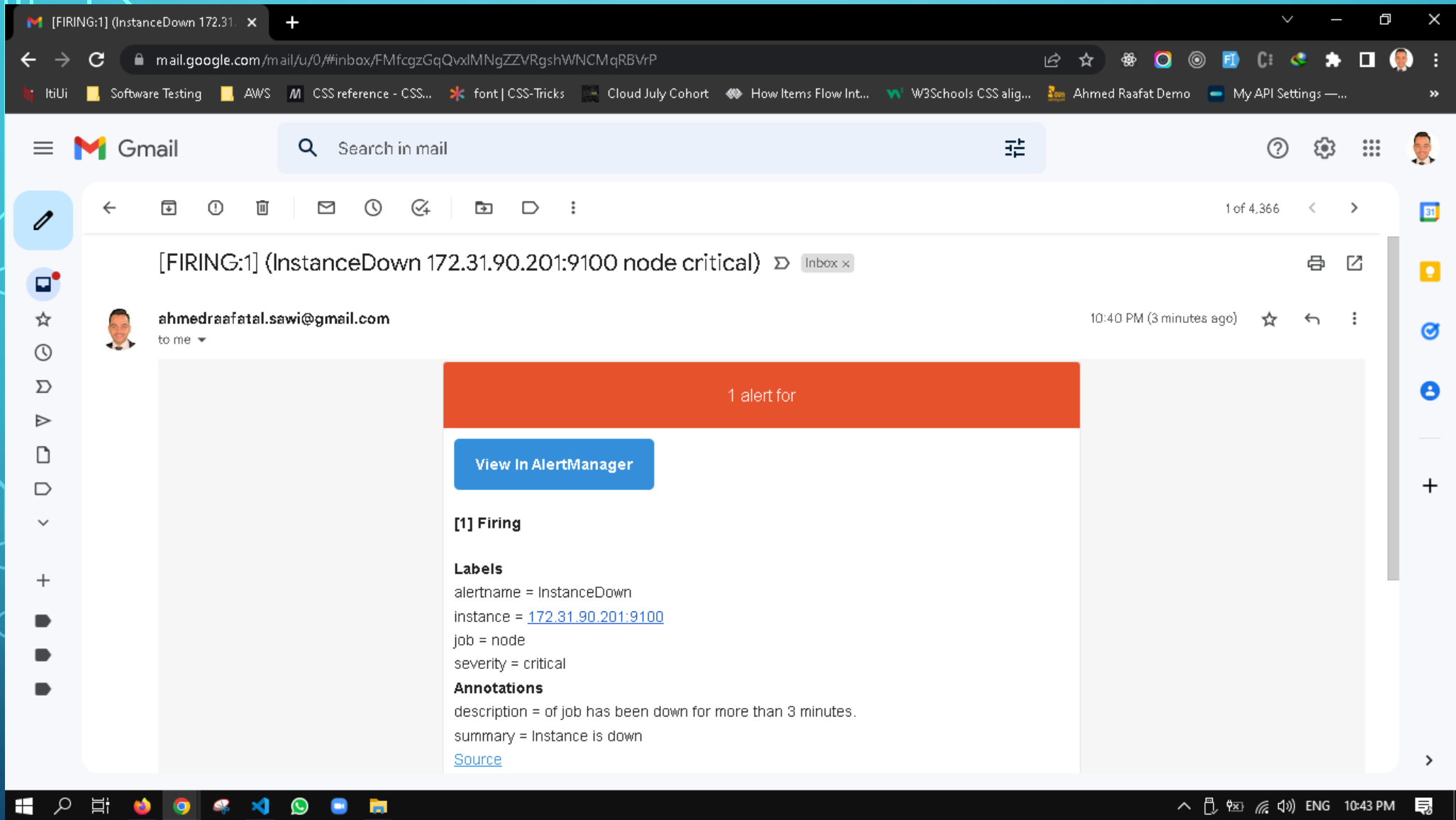
SCREENSHOT11-A EXAMPLE



SCREENSHOT11-B EXAMPLE



SCREENSHOT11-C EXAMPLE



SCREENSHOT12 EXAMPLE

CloudFront x CloudFormation x S3 Management x RDS Management x Instances | EC2 M x Prometheus Time x Environment Vari x +

us-east-1.console.aws.amazon.com/cloudfront/v3/home?region=us-east-1#/distributions

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aws Services Search for services, features, blogs, docs, and more [Alt+S] Global voclabs/user2032074=64a46e34-09e4-11ec-a159-9b3aa8af0e4f @ 23...

EC2 VPC Lambda S3 Elastic Beanstalk DynamoDB RDS CloudFront IAM Simple Queue Service Simple Notification Service Elastic Container Service CloudTrail >

### CloudFront

- Distributions
- Policies
- Functions
- What's new **NEW**
- ▼ Telemetry
  - Monitoring
  - Alarms
  - Logs
- ▼ Reports & analytics
  - Cache statistics
  - Popular objects
  - Top referrers
  - Usage
  - Viewers

### CloudFront > Distributions

Distributions (1) Info

Search all distributions

<input type="checkbox"/>	ID	Descrip...	Domain name	Altern...	Origins	Status	Last
<input type="checkbox"/>	E3FYN5CZGI863L	-	d1gs36vi5voklz.cloudfront.net	-	udapeople-udape	✓ Enabled	Octo

Feedback Looking for language selection? Find it in the new Unified Settings

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Windows taskbar: File Explorer, Chrome, VS Code, WhatsApp, Telegram, Folder, PPT

System tray: ENG 1:36 AM

URL03\_SCREENSHOT