

SCREENSHOT01 - Compile Errors

```
Build Back End 7s [copy] [download]

1  #!/bin/bash -eo pipefail
2  cd backend
3  npm run build
4
5
6  > glee2@1.0.0 build /home/circleci/project/backend
7  > tsc
8
9  src/main.ts:31:21 - error TS1005: ',' expected.
10
11  31      .addBearerAuth()x // here is an intentional compile error. Remove the "x" and the backend should compile.
12      ~
13
14  src/main.ts:32:5 - error TS1128: Declaration or statement expected.
15
16  32      .build();
17      ~
18
19  Found 2 errors.
20
21  npm ERR! code ELIFECYCLE
22  npm ERR! errno 2
23  npm ERR! glee2@1.0.0 build: `tsc`
24  npm ERR! Exit status 2
25  npm ERR!
26  npm ERR! Failed at the glee2@1.0.0 build script.
27  npm ERR! This is probably not a problem with npm. There is likely additional log above.
28  npm ERR!
29  npm ERR! A complete log of this run can be found in: /home/circleci/.npm/_logs/2020-07-15T15:20:07.000Z-debug.log
```

```
Test frontend 8m 47s [copy] [download]

8
9  • Deprecation Warning:
10
11  Option "setupTestFrameworkScriptFile" was replaced by configuration "setupFilesAfterEnv", which supports multiple
12  configuration files.
13  Please update your configuration.
14
15  Configuration Documentation:
16  https://jestjs.io/docs/configuration.html
17
18  PASS src/app/components/Empty/Empty.spec.tsx (15.207s)
19  FAIL src/app/components/LoadingMessage/LoadingMessage.spec.tsx (15.966s)
20    • <LoadingMessage> › Props › message › Should render the props message
21
22    expect(received).toBeTruethy()
23
24    Received: false
25
26      9 |         const message = 'Hello!';
27      10 |         const wrapper = shallow(<LoadingMessage message={message} />);
28      > 11 |         expect(wrapper.contains(<span>{message}</span>)).toBeTruethy(); //remove the question mark t
29         |                                     ^
30      12 |     });
31      13 |   });
32      14 | });
33
34  at Object.<anonymous> (app/components/LoadingMessage/LoadingMessage.spec.tsx:11:59)
35  at processTicksAndRejections (../node:internal/process/task_queues:96:5)
36
37  PASS src/app/components/OrdersTable/NoFilteredOrders/NoFilteredOrders.spec.tsx (16.695s)
```

SCREENSHOT02 – Job failed because of unit tests

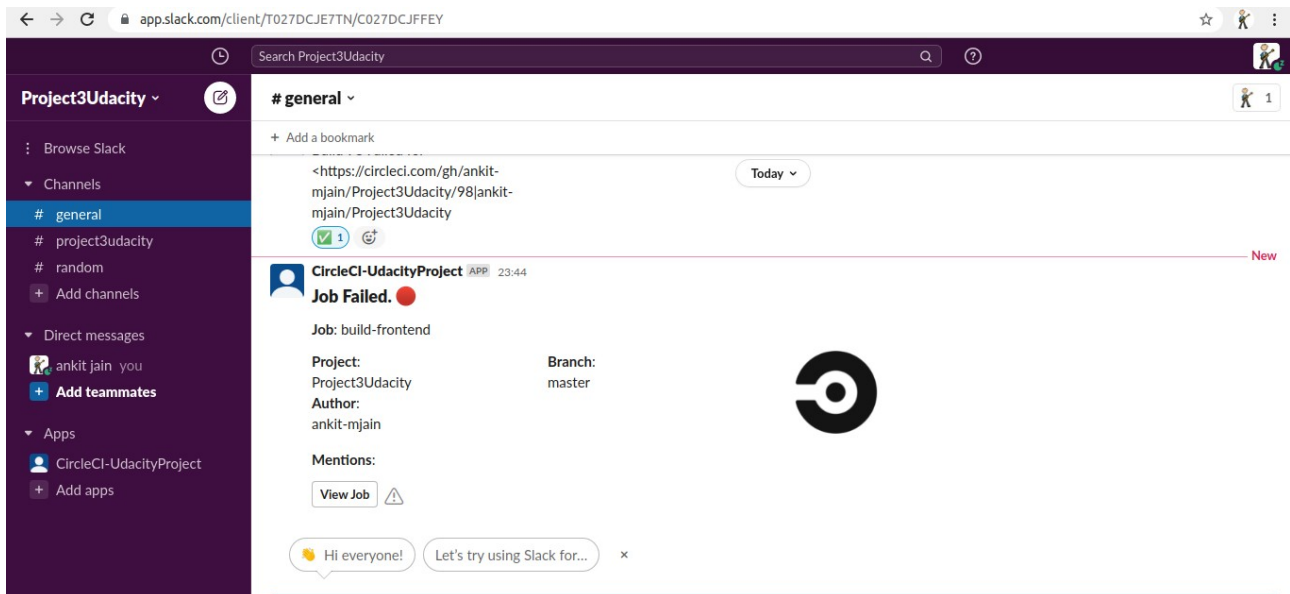
```
Test backend 43s [copy] [download]
173 Summary of all failing tests
174 FAIL src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts
175   • Employee Remover › when a user activates an employee › should activate the employee from the repository
176
177     expect(jest.fn()).toBeCalledWith(...expected)
178
179     Expected: 100
180     Received: 101
181
182     Number of calls: 1
183
184     33 |
185     34 |         // Assert
186   > 35 |         expect(employeeRepository.findById).toBeCalledWith(100);
187         |                                             ^
188
189     36 |         expect(employeeRepository.save).toBeCalled();
190     37 |     });
191     38 | });
192
193     at src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts:35:43
194     at fulfilled (src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts:5:58)
195
196
197 Test Suites: 1 failed, 50 passed, 51 total
198 Tests:      1 failed, 78 passed, 79 total
199 Snapshots:  0 total
200 Time:       42.323s
201 Ran all test suites.
```

SCREENSHOT03 – Job that failed because of vulnerable packages

```
scan frontend 3s [copy] [download]
291 will install ts-jest@27.0.3, which is a breaking change
292 node_modules/ts-jest/node_modules/yargs-parser
293 node_modules/webpack-cli/node_modules/yargs-parser
294 node_modules/webpack-dev-server/node_modules/yargs-parser
295 node_modules/yargs-parser
296 ts-jest 23.10.0-beta.1 - 25.2.1
297 Depends on vulnerable versions of yargs-parser
298 node_modules/ts-jest
299 yargs 4.0.0-alpha1 - 12.0.5 || 14.1.0 || 15.0.0 - 15.2.0
300 Depends on vulnerable versions of yargs-parser
301 node_modules/webpack-dev-server/node_modules/yargs
302 node_modules/yargs
303 jest-cli 12.1.1-alpha.2935e14d || 12.1.2-alpha.6230044c - 24.8.0
304 Depends on vulnerable versions of yargs
305 node_modules/jest/node_modules/jest-cli
306 jest-runtime 12.1.1-alpha.2935e14d - 24.8.0
307 Depends on vulnerable versions of yargs
308 node_modules/jest-runtime
309 webpack-dev-server 2.0.0-beta - 3.11.2
310 Depends on vulnerable versions of chokidar
311 Depends on vulnerable versions of yargs
312 node_modules/webpack-dev-server
313
314 51 vulnerabilities (15 low, 14 moderate, 21 high, 1 critical)
315
316 To address issues that do not require attention, run:
317   npm audit fix
318
319 To address all issues (including breaking changes), run:
320   npm audit fix --force
```

SCREENSHOT04 – Slack Notifications

An alert from one of your failed builds



SCREENSHOT05



✔ Install dependencies

5s



❗ Deploy backend

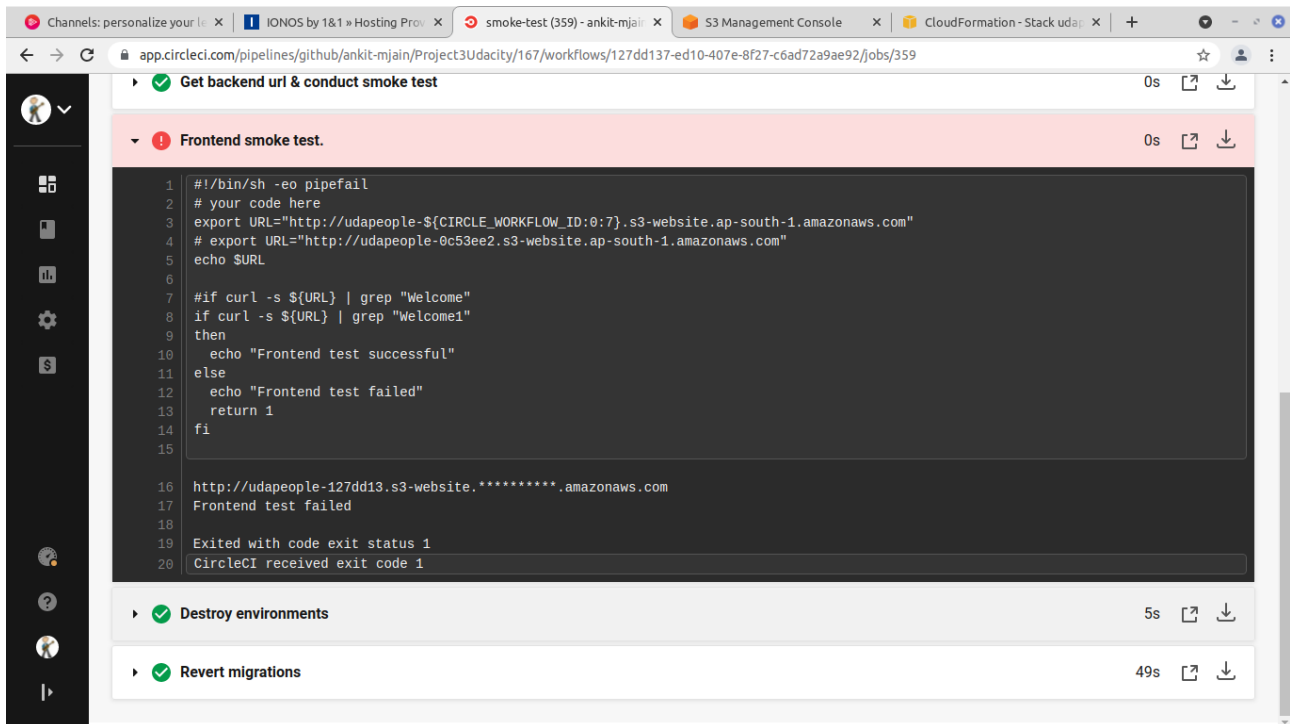
0s



```
275 ./src/modules/domain/orders/events/
276 ./src/modules/domain/orders/events/ProductAddedToOrder.ts
277 ./src/modules/domain/orders/events/handlers/
278 ./src/modules/domain/orders/events/handlers/index.ts
279 ./src/modules/domain/orders/events/handlers/notify-product-add-to-order-console.ts
280 ./src/modules/domain/orders/orders.controller.spec.ts
281 ./src/modules/domain/orders/orders.controller.ts
282 ./src/modules/domain/orders/orders.module.ts
283 ./src/modules/domain/orders/repositories/
284 ./src/modules/domain/orders/repositories/orderRepository.ts
285 ./src/modules/domain/orders/repositories/productRepository.ts
286 ./src/modules/domain/orders/requests/
287 ./src/modules/domain/orders/requests/PaginatedOrderQuery.ts
288 ./src/modules/domain/orders/requests/orderRequest.ts
289 ./src/modules/domain/orders/requests/paginatedProductQuery.ts
290 ./src/modules/errors/
291 ./src/modules/errors/error.filter.ts
292 ./src/modules/status/
293 ./src/modules/status/status.controller.spec.ts
294 ./src/modules/status/status.controller.ts
295 ./src/modules/status/status.module.ts
296 ./test/
297 ./test/app.e2e-spec.ts
298 ./test/jest-e2e.json
299 ./tsconfig.json
300 ./tsconfig.spec.json
301 ./tslint.json
```

```
292 ./src/modules/status/
293 ./src/modules/status/status.controller.spec.ts
294 ./src/modules/status/status.controller.ts
295 ./src/modules/status/status.module.ts
296 ./test/
297 ./test/app.e2e-spec.ts
298 ./test/jest-e2e.json
299 ./tsconfig.json
300 ./tsconfig.spec.json
301 ./tslint.json
302 ./webpack.config.js
303 ./env
304 tar: .: file changed as we read it
305
306 Exited with code exit status 1
307 CircleCI received exit code 1
```

SCREENSHOT06 – Appropriate job failure for the smoke test job

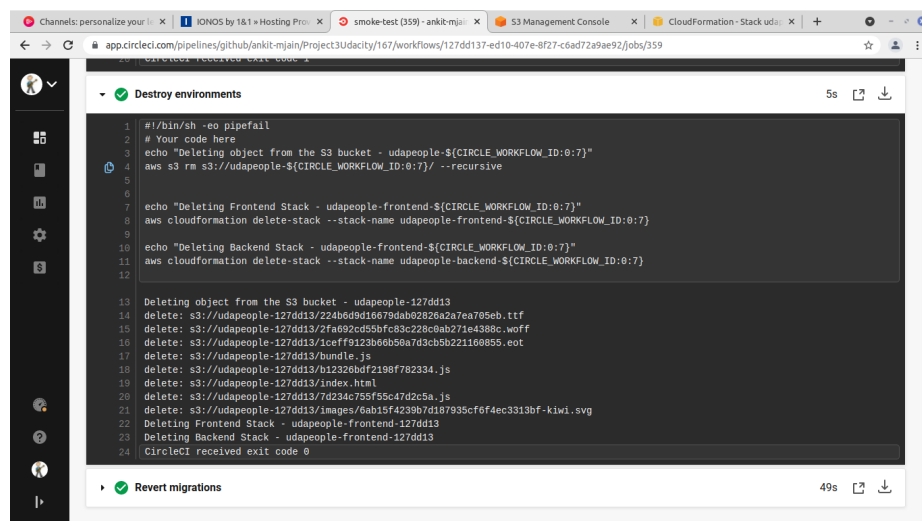


The screenshot displays a CircleCI pipeline job titled "smoke-test (359) - ankit-mjain". The job is currently running, and the "Frontend smoke test." step has failed. The failure is indicated by a red exclamation mark icon and a red background for the step header. The step's duration is 0s. The job's overall status is "Failed", indicated by a red circle icon in the top left corner of the interface.

The "Frontend smoke test." step contains the following script:

```
1 #!/bin/sh -eo pipefail
2 # your code here
3 export URL="http://udapeople-${CIRCLE_WORKFLOW_ID:0:7}.s3-website.ap-south-1.amazonaws.com"
4 # export URL="http://udapeople-0c53ee2.s3-website.ap-south-1.amazonaws.com"
5 echo $URL
6
7 #if curl -s ${URL} | grep "Welcome"
8 if curl -s ${URL} | grep "Welcome1"
9 then
10     echo "Frontend test successful"
11 else
12     echo "Frontend test failed"
13     return 1
14 fi
15
16 http://udapeople-127dd13.s3-website.*****.amazonaws.com
17 Frontend test failed
18
19 Exited with code exit status 1
20 CircleCI received exit code 1
```

The output of the script shows that the "Frontend test failed" message was printed, and the job exited with status 1. The "Destroy environments" step is shown as completed with a duration of 5s. The "Revert migrations" step is also shown as completed with a duration of 49s.



The screenshot displays a CircleCI pipeline job titled "smoke-test (359) - ankit-mjain". The job is currently running, and the "Destroy environments" step is shown as completed with a duration of 5s. The step's status is "Success", indicated by a green checkmark icon. The job's overall status is "Failed", indicated by a red circle icon in the top left corner of the interface.

The "Destroy environments" step contains the following script:

```
1 #!/bin/sh -eo pipefail
2 # Your code here
3 echo "Deleting object from the S3 bucket - udapeople-${CIRCLE_WORKFLOW_ID:0:7}"
4 aws s3 rm s3://udapeople-${CIRCLE_WORKFLOW_ID:0:7}/ --recursive
5
6
7 echo "Deleting Frontend Stack - udapeople-frontend-${CIRCLE_WORKFLOW_ID:0:7}"
8 aws cloudformation delete-stack --stack-name udapeople-frontend-${CIRCLE_WORKFLOW_ID:0:7}
9
10 echo "Deleting Backend Stack - udapeople-frontend-${CIRCLE_WORKFLOW_ID:0:7}"
11 aws cloudformation delete-stack --stack-name udapeople-backend-${CIRCLE_WORKFLOW_ID:0:7}
12
13
14 Deleting object from the S3 bucket - udapeople-127dd13
15 delete: s3://udapeople-127dd13/224b6d9d16679dab02826a2a7ea705eb.ttf
16 delete: s3://udapeople-127dd13/2fa692cd5bfc83c228c8ab271e4388c.woff
17 delete: s3://udapeople-127dd13/1cef9123b66b58a7d3cb5b221109055.eot
18 delete: s3://udapeople-127dd13/bundle.js
19 delete: s3://udapeople-127dd13/b1232bdf2198f782334.js
20 delete: s3://udapeople-127dd13/index.html
21 delete: s3://udapeople-127dd13/7d234c755f55c47d2c5a.js
22 delete: s3://udapeople-127dd13/images/6ab15f4239b7d187935cf6f4ec3313bf-kiwi.svg
23 Deleting Frontend Stack - udapeople-frontend-127dd13
24 Deleting Backend Stack - udapeople-frontend-127dd13
25 CircleCI received exit code 0
```

The output of the script shows that the "Deleting Frontend Stack" and "Deleting Backend Stack" messages were printed, and the job exited with status 0. The "Revert migrations" step is shown as completed with a duration of 49s.

SCREENSHOT07 – Successful rollback after a failed smoke test.

The screenshot shows a CircleCI pipeline interface with the following steps:

- Frontend smoke test.** (0s) - Failed, indicated by a red exclamation mark icon.
- Destroy environments** (5s) - Completed, indicated by a green checkmark icon.
- Revert migrations** (49s) - Completed, indicated by a green checkmark icon.

The terminal output for the 'Revert migrations' step is as follows:

```
36 23 packages are looking for funding
37   run 'npm fund' for details
38
39
40 found 55743 vulnerabilities (38640 low, 113 moderate, 16987 high, 3 critical)
41   run 'npm audit fix' to fix them, or 'npm audit' for details
42
43 > glee2@1.0.0 premigrations:revert /root/project/backend
44 > npm run build
45
46
47 > glee2@1.0.0 build /root/project/backend
48 > tsc
49
50
51 > glee2@1.0.0 migrations:revert /root/project/backend
52 > ts-node -r dotenv/config node_modules/.bin/typeorm migration:revert
53
54 query: SELECT * FROM "information_schema"."tables" WHERE "table_schema" = current_schema() AND "table_name" = 'migrations'
55 query: SELECT * FROM "migrations" "migrations" ORDER BY "id" DESC
56 3 migrations are already loaded in the database.
57 AddEmployee1555722583168 is the last executed migration. It was executed on Sat Apr 20 2019 01:09:43 GMT+0000 (Coordinated Universal Time)
58 Now reverting it...
59 query: START TRANSACTION
60 query: DROP INDEX "IDX_d6c66c08b9c7e84a1b657797df"
61 query: DROP INDEX "IDX_1f9ea9b9a59a6d98ade4f2d45a9"
```

The screenshot shows a CircleCI pipeline interface with the following steps:

- Spin up environment** (3s) - Completed, indicated by a green checkmark icon.
- Preparing environment variables** (0s) - Completed, indicated by a green checkmark icon.
- Checkout code** (0s) - Completed, indicated by a green checkmark icon.
- Install dependencies** (12s) - Completed, indicated by a green checkmark icon.
- Update cloudfront distribution** (8m 21s) - Completed, indicated by a green checkmark icon.

The terminal output for the 'Update cloudfront distribution' step is as follows:

```
1 #!/bin/sh -eo pipefail
2 # your code here
3 aws cloudformation deploy \
4   --template-file .circleci/files/cloudfront.yml \
5   --tags project=udapeople \
6   --stack-name "udapeople-cloudfront-${CIRCLE_WORKFLOW_ID:0:7}" \
7   --parameter-overrides WorkflowID="${CIRCLE_WORKFLOW_ID:0:7}"
8
9
10 Waiting for changeset to be created..
11 Waiting for stack create/update to complete
12 Successfully created/updated stack - udapeople-cloudfront-8ee178e
13 CircleCI received exit code 0
```

SCREENSHOT08

cloudfront-update

Success

Rerun

Duration / Finished

Queued

Executor

Branch

Commit

Author & Message

3m 29s / 10h ago

0s

Docker Medium

master

6463e1b

added cloudformation template

STEPS

TESTS

ARTIFACTS

1 / 4 parallel runs

Spin up environment

2s

Preparing environment variables

0s

Checkout code

0s


Install dependencies

12s

Update cloudfront distribution





3m 14s

SCREENSHOT09 - Successful cleanup job

 cleanup Success

Rerun

...

Duration / Finished	Queued	Executor	Branch	Commit	Author & Message
🕒 21s / 1s ago	🕒 0s	 Docker Medium	 master	 47678c5	 added cleanup

STEPS TESTS ARTIFACTS

1 / 4 parallel runs

▶  Spin up environment

2s

▶  Preparing environment variables


0s

▶  Checkout code

0s

▶  Install dependencies

7s

▶  Get old stack workflow id & remove the stacks

10s

```
29
30 echo "Deleting S3 bucket"
31 aws s3 rb s3://udapeople-${OldWorkflowID} --force
32
33 echo "Deleting backend stack"
34 aws cloudformation delete-stack --stack-name "udapeople-backend-${OldWorkflowID}"
35
36 echo "Deleting frontend stack"
37 aws cloudformation delete-stack --stack-name "udapeople-frontend-${OldWorkflowID}"
38 else
39 echo "Nothing to Cleanup"
40 fi
41
42 OldWorkflowID 7244004
43 WorkflowID dd9b0c2
44 STACKS udapeople-frontend-d888329 udapeople-backend-d888329 udapeople-backend-e23b68e udapeople-frontend-7244004 udapeople-backend-72
45 Inside If of Cleanup
46 Deleting S3 bucket objects
47 delete: s3://udapeople-7244004/1ceff9123b66b50a7d3cb5b221160855.eot
48 delete: s3://udapeople-7244004/224b6d9d16679dab02826a2a7ea705eb.ttf
49 delete: s3://udapeople-7244004/2fa692cd55bfc83c228c0ab271e4388c.woff
50 delete: s3://udapeople-7244004/images/6ab15f4239b7d187935cf6f4ec3313bf-kiwi.svg
51 delete: s3://udapeople-7244004/5e068be50f79521a20cc.js
52 delete: s3://udapeople-7244004/7d234c755f55c47d2c5a.js
53 delete: s3://udapeople-7244004/bundle.js
54 delete: s3://udapeople-7244004/index.html
55 Deleting S3 bucket
56 remove_bucket: udapeople-7244004
57 Deleting backend stack
58 Deleting frontend stack
59 CircleCI received exit code 0
```


SCREENSHOT10

Only deploy on pushed to `master` branch.

Project3Udacity [Add team members](#)

[Edit Config](#) [Run Pipeline](#) [Project Settings](#)

Filters

Everyone's Pipelines

Project3Udacity

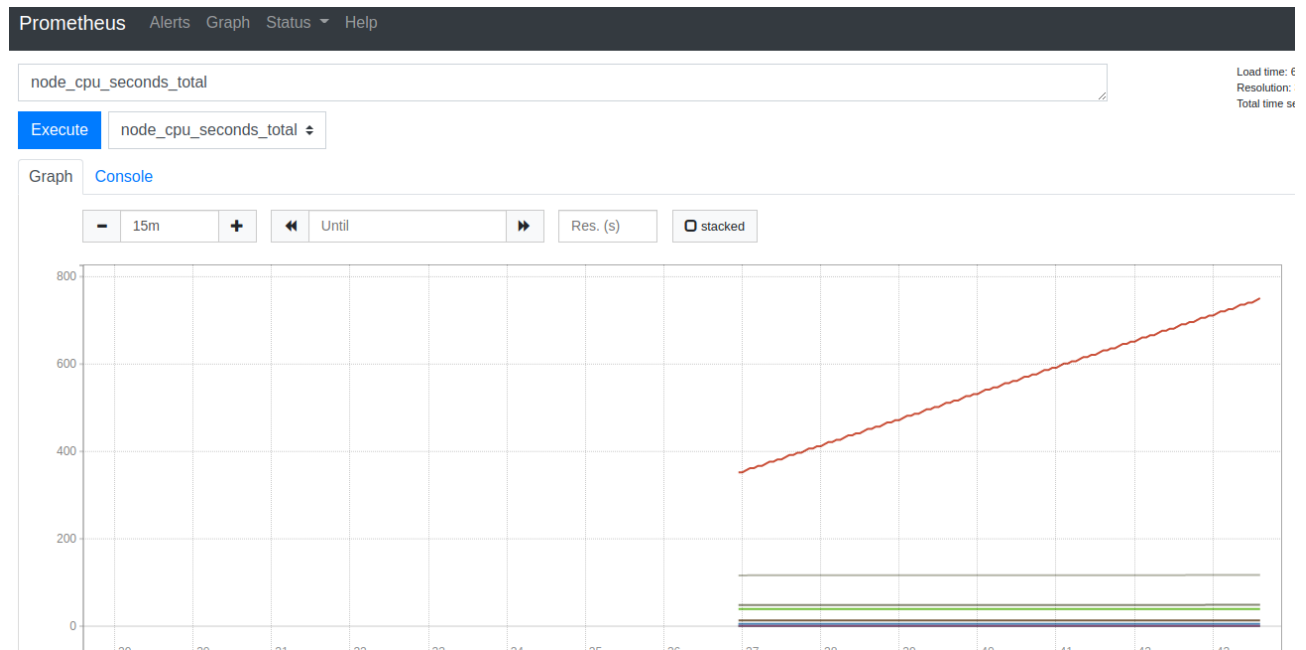
All Branches

Auto-expand ☒

Pipeline	Status	Workflow	Branch / Commit	Start	Duration	Actions
Project3Udacity 196	Success	default	feature be637f2 added cleanup	6m ago	5m 38s	Refresh Cancel Close More
<div>Jobs</div> <div><div>build-frontend 471</div><div>test-frontend 473</div><div>scan-frontend 475</div><div>build-backend 470</div><div>test-backend 472</div><div>scan-backend 474</div></div>						
Project3Udacity 195	CREATED	No workflow	feature 756b4dc	7m ago	-	More
Project3Udacity 194	Success	default	master 47678c5 added cleanup	11m ago	24s	Refresh Cancel Close More

SCREENSHOT11

Provide a screenshot of a graph of your EC2 instance including available memory, available disk space, and CPU usage



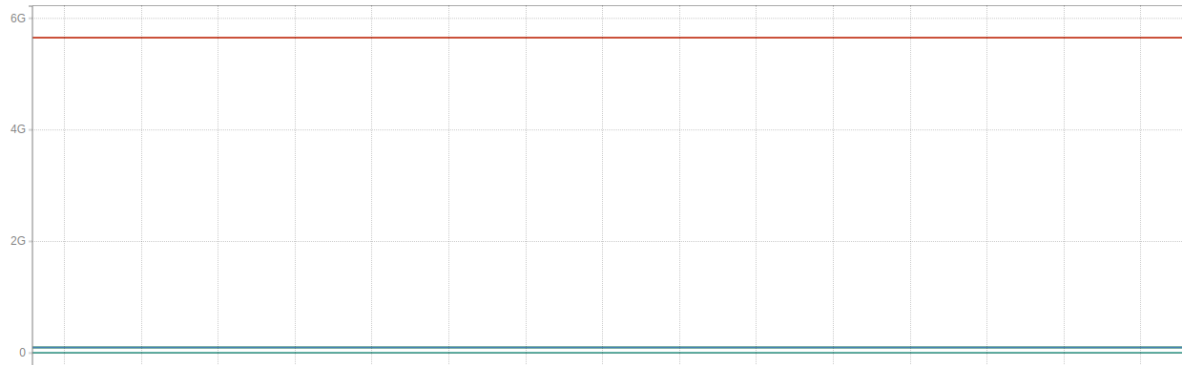
node_filesystem_avail_bytes

Load time: 72ms
Resolution: 3s
Total time series: 4

Execute node_filesystem_avail_by ↕

Graph Console

- 15m + ⏪ Until ⏩ Res. (s) ☐ stacked



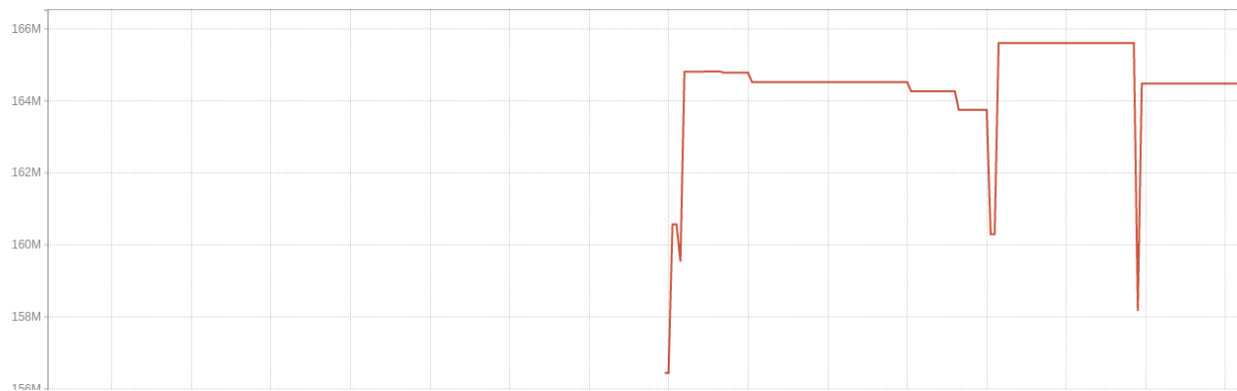
node_memory_MemFree_bytes

Load time: 46
Resolution: 3s
Total time series: 1

Execute node_memory_MemFree ↕


Graph Console

- 15m + ⏪ Until ⏩ Res. (s) ☐ stacked



Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://172.31.13.27:9100/metrics	UP	instance="172.31.13.27:9100" job="node"	3.234s ago	11.4ms	

Private IPv4 DNS

 ip-172-31-13-27.ap-south-1.compute.internal

Provide a screenshot of an alert that was sent by Prometheus.

Instances (1/2) [Info](#)

Filter Instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/> udapeople_pr...	I-Of41d50b185025840	✔ Running	t2.micro	✔ 2/2 checks passed	No alarms +	ap-south-1a
<input checked="" type="checkbox"/> udapeople-ba...	I-0a1633544873d1545	⊖ Stopped	t2.micro	-	No alarms +	ap-south-1b

Instance: i-0a1633544873d1545 (udapeople-backend-b529a67)

[Details](#) | [Security](#) | [Networking](#) | [Storage](#) | [Status checks](#) | [Monitoring](#) | [Tags](#)

▼ Instance summary [Info](#)

Instance ID I-0a1633544873d1545 (udapeople-backend-b529a67)	Public IPv4 address -	Private IPv4 addresses 172.31.13.27
Instance state ⊖ Stopped	Public IPv4 DNS -	Private IPv4 DNS Ip-172-31-13-27.ap-south-1.compute.internal

Project3Udacity

Slack Connect

Browse Slack

Channels

general

project3udacity

random

Add channels

Direct messages

ankit jain

you

Add teammates

Apps

CircleCI-UdacityProject

Add apps

project3udacity

This is the very beginning of the #project3udacity channel

This channel is for working on a project. Hold meetings, share docs and make decisions together with your team. [Edit description](#)

Tuesday, 6 July

ankit jain

20:25

joined #project3udacity.

Today

AlertManager

APP

09:49

[FIRING:3]

(InstanceDown node prometheus critical)

Hello, team!

First order of business...