# SCREENSHOT01 – Compile Errors

## Build Back End                                                              7s

```
 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
20  Found 2 errors.
21
22  npm ERR! code ELIFECYCLE
23  npm ERR! errno 2
24  npm ERR! glee2@1.0.0 build: `tsc`
25  npm ERR! Exit status 2
26  npm ERR!
27  npm ERR! Failed at the glee2@1.0.0 build script.
28  npm ERR! This is probably not a problem with npm. There is likely additional log        above.
```

## Test frontend                                                            8m 47s

```
 8
 9   • Deprecation Warning:
10
11     Option "setupTestFrameworkScriptFile" was replaced by configuration "setupFilesAfterEnv", which supports mult
12
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).toBeTruthy()
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>)).toBeTruthy(); //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

```
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

```
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
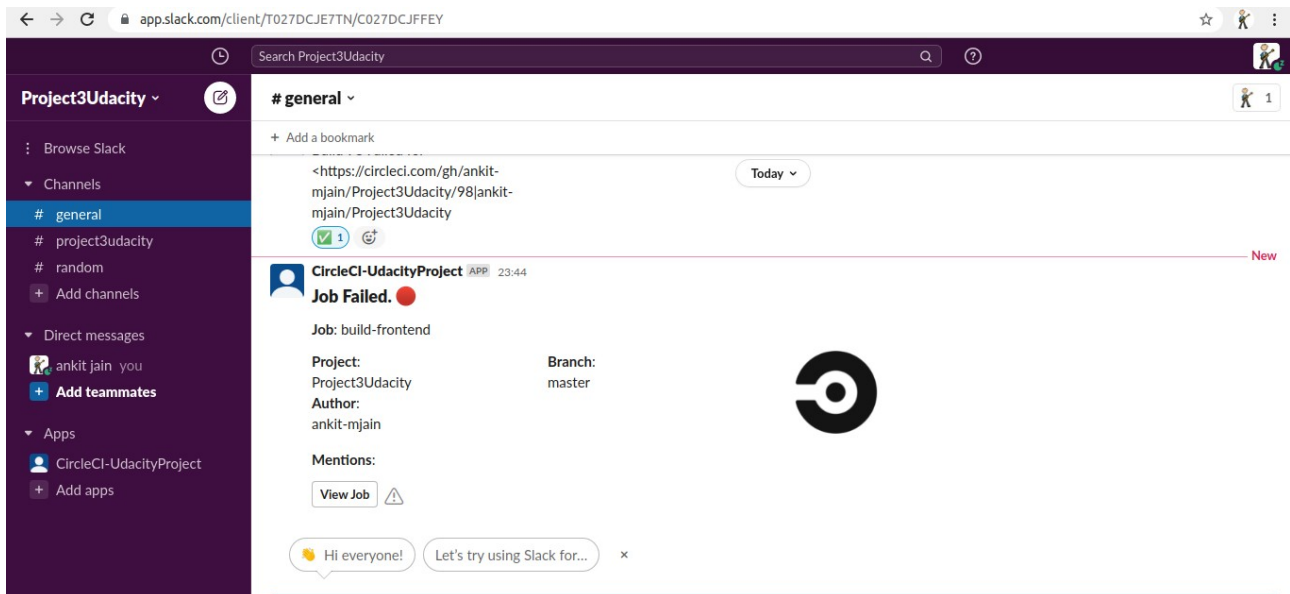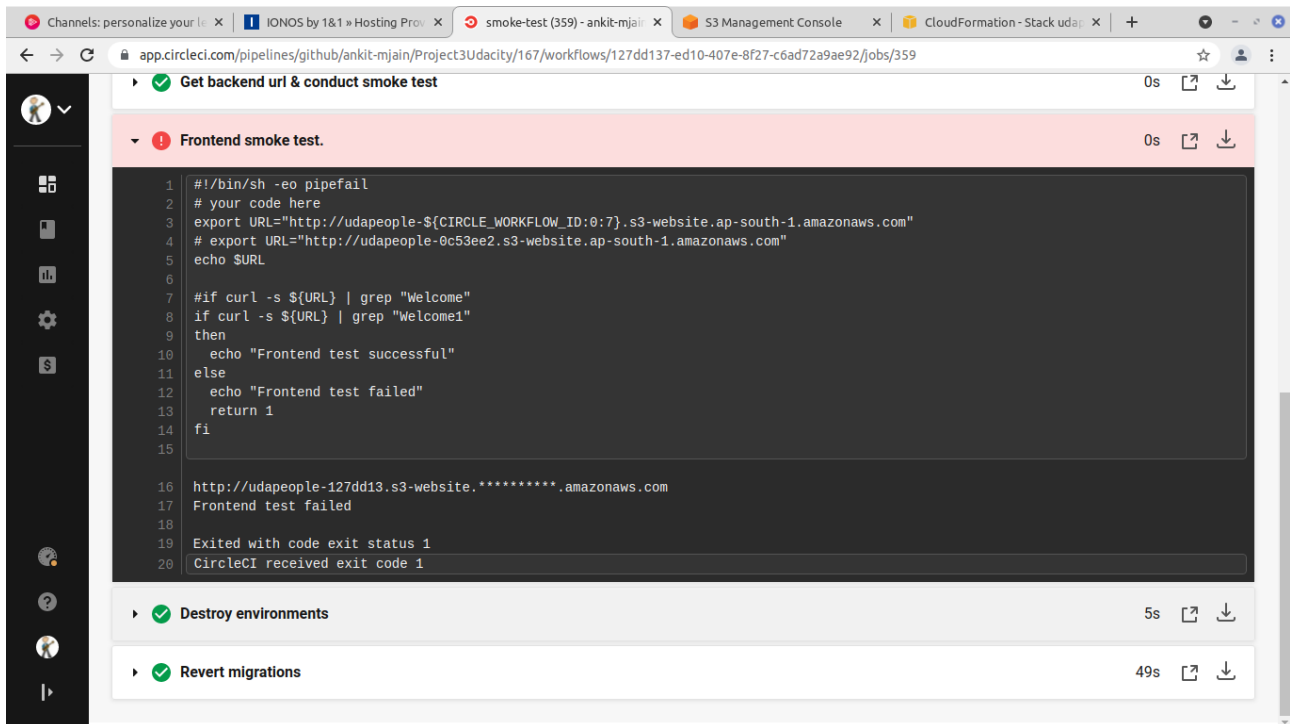


# SCREENSHOT05

```
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
```

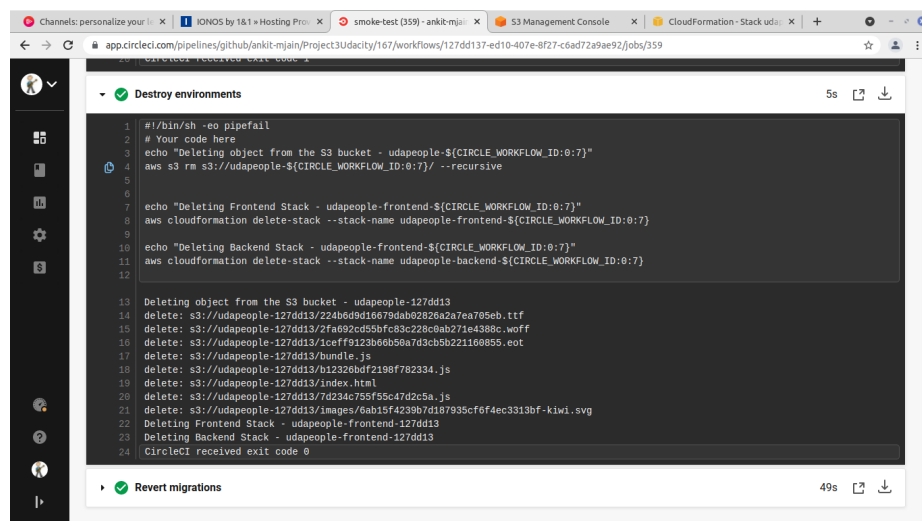# SCREENSHOT06 – Appropriate job failure for the smoke test job

# SCREENSHOT07 – Successful rollback after a failed smoke test.

app.circleci.com/pipelines/github/ankit-mjain/Project3Udacity/167/workflows/127dd137-ed10-407e-8f27-c6ad72a9ae92/jobs/359

**⚠ Frontend smoke test.**    0s

**✓ Destroy environments**    5s

**✓ Revert migrations**    49s

```
36
37   23 packages are looking for funding
38     run `npm fund` for details
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
58   Now reverting it...
59   query: START TRANSACTION
60   query: DROP INDEX "IDX_d6c66c08b9c7e84a1b657797df"
61   query: DROP INDEX "IDX_1f9ea0b0e59e0d98ade4f2d5e9"
```

**✓ Spin up environment**    3s

**✓ Preparing environment variables**    0s

**✓ Checkout code**    0s

**✓ Install dependencies**    12s

**✓ Update cloudfront distribution**    8m 21s

```
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
```

app.circleci.com/pipelines/github/ankit-mjain/Project3Udacity/167/workflows/127dd137-ed10-407e-8f27-c6ad72a9ae92/jobs/359

## 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
```

Only deploy on pushed to `master` branch.

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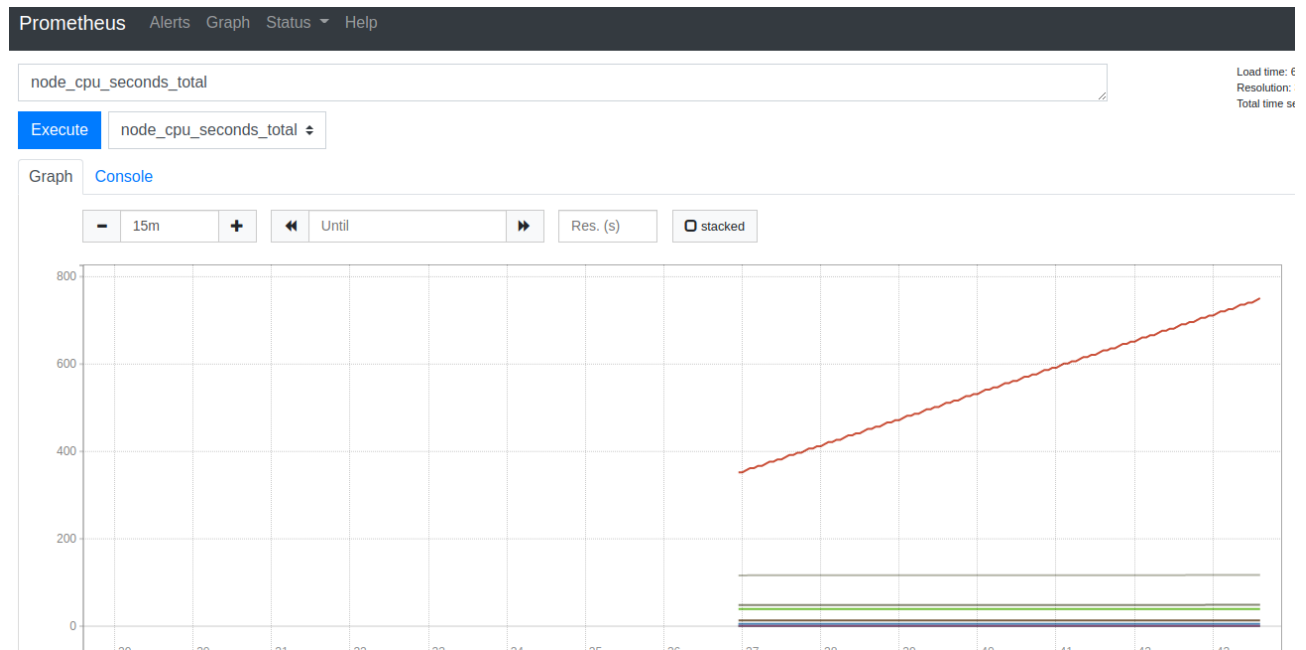
node_filesystem_avail_bytes

Execute node_filesystem_avail_by ⇕

Graph Console

− 15m + ◀◀ Until ▶▶ Res. (s) ☐ stacked

node_memory_MemFree_bytes

Execute node_memory_MemFree ⇕

Graph Console

− 15m + ◀◀ Until ▶▶ Res. (s) ☐ stacked

# Targets

All  Unhealthy

**node (2/4 up)** show less

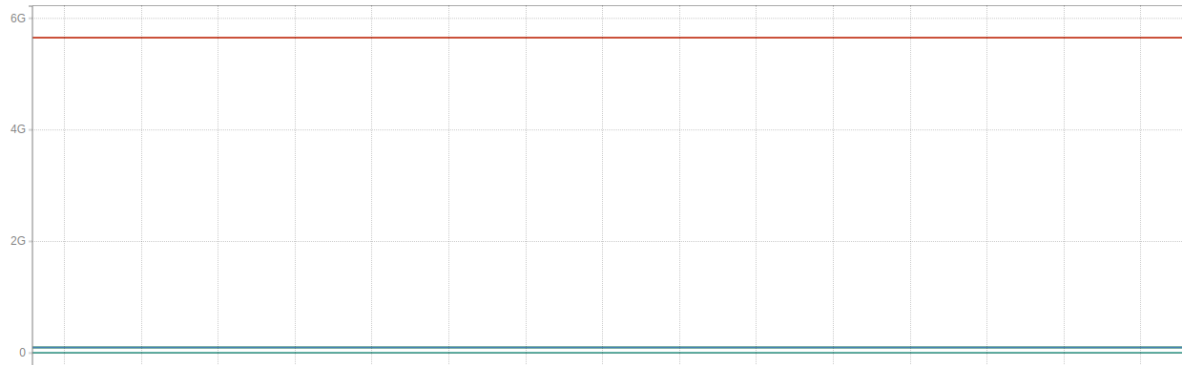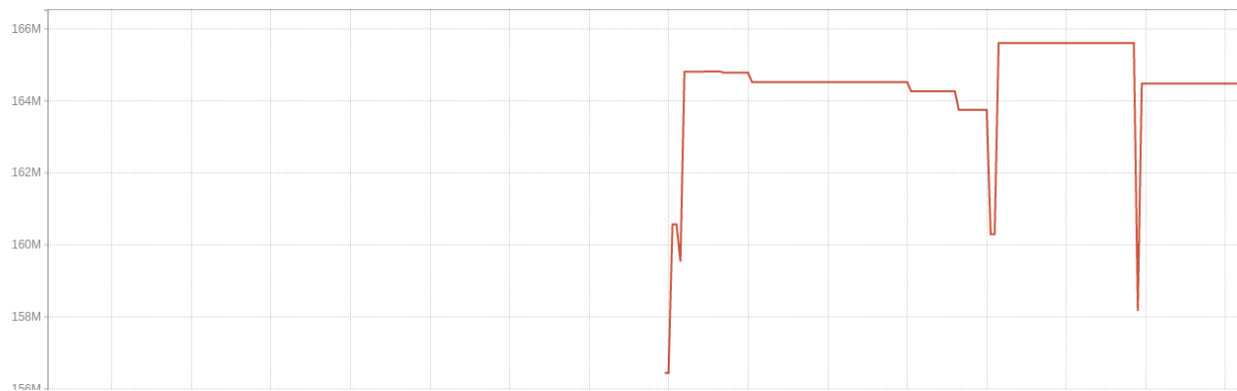| Endpoint | State | Labels | Last Scrape | Scrape Duration | Error |
|---|---|---|---|---|---|
| http://172.31.13.27:9100/metrics | UP | instance="172.31.13.27:9100"  job="node" | 3.234s ago | 11.4ms | |

═

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

| Details | Security | Networking | Storage | Status checks | Monitoring | Tags |

▼ **Instance summary** Info

| Instance ID | Public IPv4 address | Private IPv4 addresses |
|---|---|---|
| ⧉ i-0a1633544873d1545 (udapeople-backend-b529a67) | ⧉ 35.154.121.206 \| open address ⧉ | ⧉ 172.31.13.27 |

| Instance state | Public IPv4 DNS | Private IPv4 DNS |
|---|---|---|
| ⊘ Running | ⧉ ec2-35-154-121-206.ap-south-1.compute.amazonaws.com \| open address ⧉ | ⧉ ip-172-31-13-27.ap-south-1.compute.internal |

# SCREENSHOT12

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

**Instances** (1/2) Info          ↻  |  Connect  |  Instance state ▼  |  Actions ▼  |  **Launch instances**  ▼

🔍 Filter Instances                                                                                              ‹  1  ›  ⚙

| | Name | ▽ | Instance ID | Instance state | ▽ | Instance type | ▽ | Status check | Alarm status | | Availability Zone |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☐ | udapeople_pr... | | i-0f41d50b185025840 | ⊘ Running | ⊕⊖ | t2.micro | | ⊘ 2/2 checks passed | No alarms | + | ap-south-1a |
| ☑ | 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 | Public IPv4 address | Private IPv4 addresses |
|---|---|---|
| ⧉ i-0a1633544873d1545 (udapeople-backend-b529a67) | – | ⧉ 172.31.13.27 |

| Instance state | Public IPv4 DNS | Private IPv4 DNS |
|---|---|---|
| ⊖ Stopped | – | ⧉ ip-172-31-13-27.ap-south-1.compute.internal |

▼ Channels
   #  general
   #  project3udacity
   #  random
   +  Add channels

▼ Direct messages
   ankit jain  you
   +  Add teammates

▼ Apps
   CircleCI-UdacityProject
   +  Add apps

💡 **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...        ✕