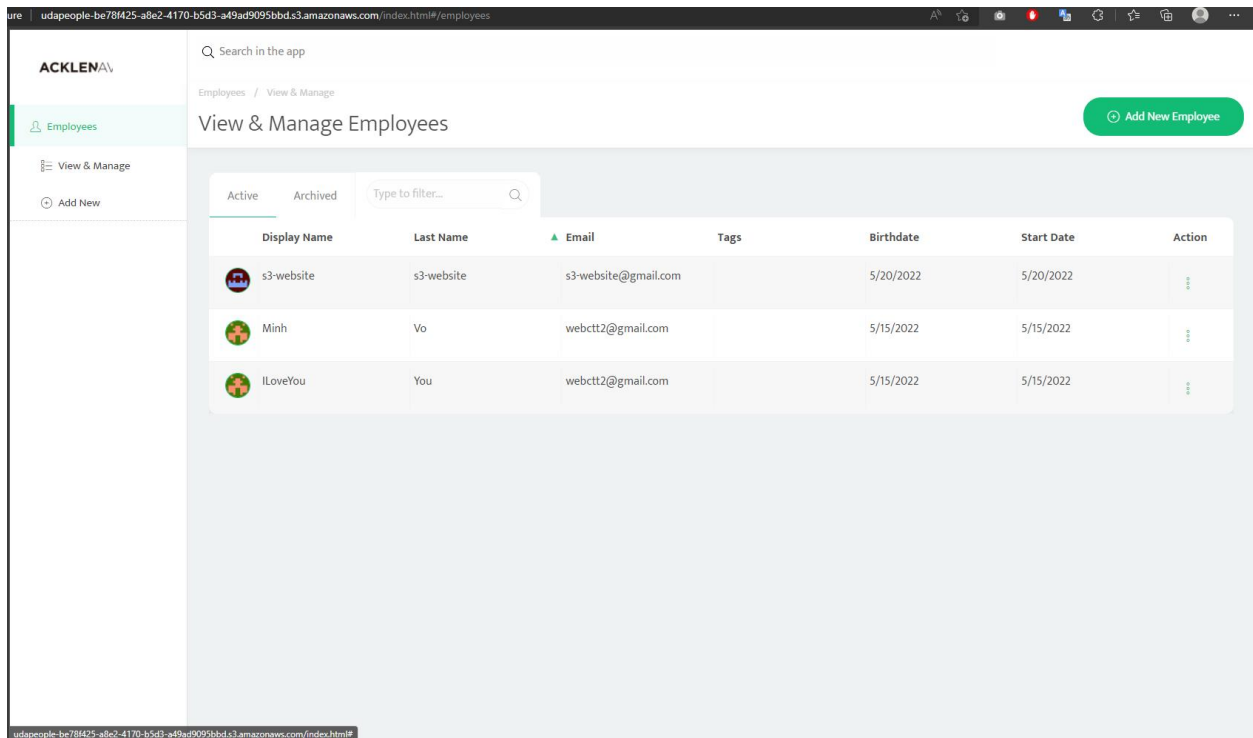


### 1. URL01

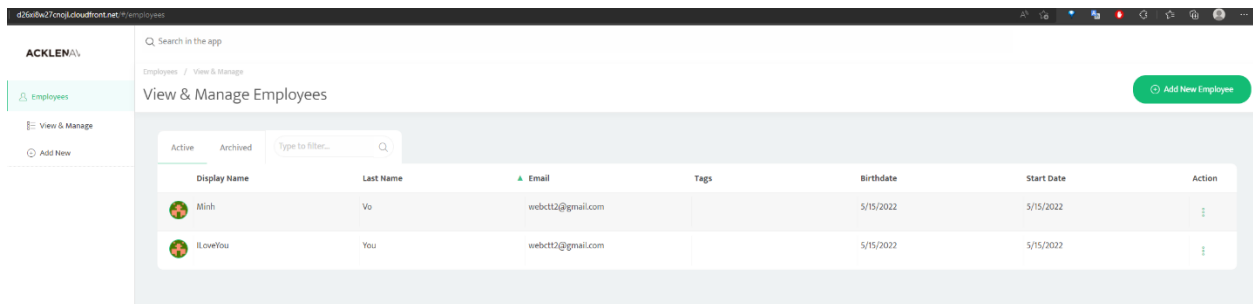
- <https://github.com/18120211/devops-udacity-project3>

### 2. URL02

- S3: <http://udapeople-be78f425-a8e2-4170-b5d3-a49ad9095bbd.s3.amazonaws.com/index.html>
- API\_URL in this run: <http://54.172.120.47:3030>
- CloudFront: d26xi8w27cnoj1.cloudfront.net



### 3. URL03\_SCREENSHOT.png



#### 4. URL04\_SCREENSHOT.png

The screenshot shows the AWS Management Console with a list of EC2 instances. The 'backends-59ab1b4f-72af-4683-8e66-bf69e...' instance is selected. A terminal window is open, showing a command to curl the status of the instance.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs
test-ec2	i-071227469e8ea7ed3	Terminated	t2.micro	-	No alarms	us-east-1b	-	-	-	-
prometheus-server	i-0e101fc32047966a7	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-52-208-21-8.comput...	3.208.21.8	-	-
backends-59ab1b4f-72af-4683-8e66-bf69e...	i-0e9d50ede9410b378	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-52-206-4-160.com...	52.206.4.160	-	-

Instance: i-0e9d50ede9410b378

Details Security

Instance summary

Instance ID  
i-0e9d50ede9410b378

IPv6 address  
-

Hostname type  
IP name: ip-172-31-23-10

Instance type  
t2.micro

VPC ID  
vpc-06fc722ae119f54b (default-vpc)

Private IPv4 addresses  
52.206.4.160

Public IPv4 DNS copied

ec2-52-206-4-160.compute-1.amazonaws.com | open address

Answer private resource DNS name  
-

Auto-assigned IP address  
52.206.4.160 [Public IP]

IAM Role  
-


```
admin@DESKTOP-ABHKUOP: ~$ curl ec2-52-206-4-160.compute-1.amazonaws.com:3930/api/status
{"status": "ok", "environment": "local"}
admin@DESKTOP-ABHKUOP: /tmp$
```

#### 5. URL05\_SCREENSHOT.png

The screenshot shows the Prometheus Targets page. The 'node' target group is selected, showing 2/4 up targets. The table lists the endpoints, their states, labels, last scrape times, and scrape durations.

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://172.31.17.74:9100/metrics	UP	instance="172.31.17.74:9100" job="node"	891ms ago	11.36ms	
http://172.31.2.166:9100/metrics	DOWN	instance="172.31.2.166:9100" job="node"	1.159s ago	1s	Get "http://172.31.2.166:9100/metrics": dial tcp 172.31.2.166:9100: i/o timeout
http://172.31.24.236:9100/metrics	UP	instance="172.31.24.236:9100" job="node"	284ms ago	14.19ms	
http://172.31.93.242:9100/metrics	DOWN	instance="172.31.93.242:9100" job="node"	146ms ago	250.8us	Get "http://172.31.93.242:9100/metrics": dial tcp 172.31.93.242:9100: connect: connection refused

## 6. SCREENSHOT01.png

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Dashboard

Projects

Insights

Organization Settings

Plan

Can't find an organization?

Check permissions and update access to the ones you want.

Notifications

Status OPERATIONAL

Docs

Orbs

Support

Preparing environment variables


Checkout code

Restoring cache

Back-end build

```
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 Found 2 errors.
44
45 npm ERR! code ELIFECYCLE
46 npm ERR! errno 2
47 npm ERR! glee2@1.0.0 build: `tsc`
48 npm ERR! Exit status 2
49 npm ERR!
50 npm ERR! Failed at the glee2@1.0.0 build script.
51 npm ERR! This is probably not a problem with npm. There is likely additional logging output above.
52
53 npm ERR! A complete log of this run can be found in:
54 npm ERR!   /home/circleci/.npm/_logs/2022-04-24T18_25_38_3662-debug.log
55
56 Exited with code exit status 2
57 CircleCI received exit code 2
```

## 7. SCREENSHOT02.png

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Can't find an organization?

Check permissions and update access to the ones you want.

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Status OPERATIONAL

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Spin up environment

Preparing environment variables


Checkout code

Restoring cache

Back-end test

```
259 Number of calls: 1
260
261 33 |
262 34 | // Assert
263 > 35 | expect(employeeRepository.findById).toBeCalledWith(100);
264     |
265 36 | expect(employeeRepository.save).toBeCalled();
266 37 | });
267 38 | });
268
269 at src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts:35:43
270 at fulfilled (src/modules/domain/employees/commands/handlers/employee-activator.handler.spec.ts:5:58)
271
272
273 Test Suites: 1 failed, 50 passed, 51 total
274 Tests:      1 failed, 78 passed, 79 total
275 Snapshots:  0 total
276 Time:       32.695s
277 Ran all test suites.
278 npm ERR! code ELIFECYCLE
279 npm ERR! errno 1
280 npm ERR! glee2@1.0.0 test: `jest --runInBand`
281 npm ERR! Exit status 1
282 npm ERR!
283 npm ERR! Failed at the glee2@1.0.0 test script.
284 npm ERR! This is probably not a problem with npm. There is likely additional logging output above.
285
286 npm ERR! A complete log of this run can be found in:
287 npm ERR!   /home/circleci/.npm/_logs/2022-04-24T18_30_8492-debug.log
288
289 Exited with code exit status 1
290 CircleCI received exit code 1
```

## 8. SCREENSHOT03.png

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Plan

Can't find an organization?

Check permissions and update access to the ones you want.

Notifications

Status OPERATIONAL

Docs

Orbs

Support

Restoring cache


Front-end scan

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

Download the full output as a file

5580		Information to an Unauthorized Actor
5581		
5582	Package	node-fetch
5583		
5584	Patched in	>=2.6.7
5585		
5586	Dependency of	react-foundation
5587		
5588	Path	react-foundation > fbjs > isomorphic-fetch > node-fetch
5589		
5590	More info	<a href="https://github.com/advisories/GHSA-r683-j2x4-v87g">https://github.com/advisories/GHSA-r683-j2x4-v87g</a>
5591		
5592		
5593	Low	The 'size' option isn't honored after following a redirect in node-fetch
5594		
5595		
5596	Package	node-fetch
5597		
5598	Patched in	>=2.6.1
5599		
5600	Dependency of	react-foundation
5601		
5602	Path	react-foundation > fbjs > isomorphic-fetch > node-fetch
5603		
5604	More info	<a href="https://github.com/advisories/GHSA-w7rc-rwvf-8q5r">https://github.com/advisories/GHSA-w7rc-rwvf-8q5r</a>
5605		
5606	found 654 vulnerabilities (5 low, 216 moderate, 302 high, 131 critical) in 1896 scanned packages	
5607	run 'npm audit fix' to fix 484 of them.	
5608	168 vulnerabilities require semver-major dependency updates.	
5609	2 vulnerabilities require manual review. See the full report for details.	
5610		
5611	Exited with code exit status 1	
5612	CircleCI received exit code 1	

## 9. SCREENSHOT04.png



Udacity-Projects APP 3:12 PM

Backend SUCCESS build in 104 of devops-udacity-project3 (main) -: Fixed at 13077468310747cafd4982d0b4e8ed1f4109c88e

Frontend FAIL build in 105 of devops-udacity-project3 (main) -: Fail at 13077468310747cafd4982d0b4e8ed1f4109c88e

Hello, team!

First order of business...

×

## 10. SCREENSHOT05.png

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Plan

Can't find an organization?  
[Check permissions](#) and update access to the ones you want.

DashboardProjectBranchWorkflowJob

All Pipelines > devops-udacity-project3 > main > default > deploy-infrastructure (139)

deploy-infrastructure

Failed

Duration / Finished

Queued

Executor / Resource Class

Branch

Commit

Author & Message

15s / 3m ago

0s

Docker / Large

main

0db9a7b

update docker images

STEPS TESTS TIMING ARTIFACTS RESOURCES

Spin up environment

Preparing environment variables

Checkout code

Ensure back-end infrastructure exists

```
1#!/bin/bash -eo pipefail
2aws cloudformation deploy \
3  --template-file .circleci/files/backend.yml \
4  --tags project=udacity-project3 \
5  --stack-name "udacity-project3-backend" \
6  --parameter-overrides ID=${CIRCLE_WORKFLOW_ID}
7
8
9An error occurred (ValidationError) when calling the CreateChangeSet operation: Template format error: Unrecognized resource types: [AWS::EC2::SecurityGroups]
10
11Exited with code exit status 255
12CircleCI received exit code 255
```

## 11. SCREENSHOT06.png

18120211  
Vũ Thế Minh

Dashboard

Projects

Insights

Organization Settings

Plan

Can't find an organization?  
[Check permissions](#) and update access to the ones you want.

DashboardProjectBranchWorkflowJob

All Pipelines > devops-udacity-project3 > main > default > deploy-infrastructure (139)

deploy-infrastructure

Failed

Duration / Finished

Queued

Executor / Resource Class

Branch

Commit

Author & Message

19s / 21s ago

0s

Docker / Large

develop

b279352

sc06

STEPS TESTS TIMING ARTIFACTS RESOURCES

Spin up environment


Preparing environment variables

Checkout code

Backend smoke test.

```
1#!/bin/bash -eo pipefail
2export BACKEND_URI=$(aws ec2 describe-instances --filters "Name=tag:Name,Values=backend-${CIRCLE_WORKFLOW_ID}" --query 'Reservations[*].Instances[0].PublicIpAddress' --output text):3030/api/status
3
4echo "----- Backend url -----"
5echo $BACKEND_URL
6if curl $BACKEND_URL | grep "ok"
7then
8  exit 1
9else
10  exit 1
11fi
12
13----- Backend url -----
14*****
15% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
16             Dload  Upload    Total   Spent    Left   Speed
17 100    37  100    37    0     0  11690      0 --:--:-- --:--:-- --:--:-- 12333
18 {"status":"ok","environment":"local"}
19
20Exited with code exit status 1
21CircleCI received exit code 1
```

## 12. SCREENSHOT07.png

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Dashboard

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Organization Settings

Plan

Can't find an organization?

[Check permissions and update access to the ones you want.](#)

Notifications

Status OPERATIONAL

Docs

Orbs

Support

```
1 #!/bin/bash -eo pipefail
2 # export FRONTEND_URL="http://udapeople-${CIRCLE_WORKFLOW_ID}.s3-website-us-east-1.amazonaws.com/index.html"
3 export FRONTEND_URL="https://udapeople-6bf69038-743f-46ee-a32b-847a0af996a5.s3.amazonaws.com/index.html"
4 echo "----- Frontend url -----"
5 echo $FRONTEND_URL
6 if curl $FRONTEND_URL | grep "Welcome"
7 then
8     exit 0
9 else
10    exit 1
11 fi
12
13 ----- Frontend url -----
14 https://udapeople-6bf69038-743f-46ee-a32b-847a0af996a5.s3.amazonaws.com/index.html
15 % Total % Received % Xferd Average Speed Time Time Time Current
16 100 243 0 243 0 0 2502 0 --:--:-- --:--:-- --:--:-- 2505
17 Exited with code exit status 1
18 CircleCI received exit code 1
```


✓ Destroy environments

```
1 #!/bin/bash -eo pipefail
2 aws s3 rb "s3://udapeople-${CIRCLE_WORKFLOW_ID}" --force
3 aws cloudformation delete-stack --stack-name "udapeople-frontend-${CIRCLE_WORKFLOW_ID}"
4 aws cloudformation delete-stack --stack-name "udapeople-backend-${CIRCLE_WORKFLOW_ID}"
5
6 delete: s3://udapeople-978dd232-2bed-45d9-865a-ea393c1eeb05/224b6d9d16679dab02826a2a7ea705eb.ttf
7 delete: s3://udapeople-978dd232-2bed-45d9-865a-ea393c1eeb05/1ceff9123b66b50a7d3cb5b221160855.eot
8 delete: s3://udapeople-978dd232-2bed-45d9-865a-ea393c1eeb05/index.html
9 delete: s3://udapeople-978dd232-2bed-45d9-865a-ea393c1eeb05/7d234c755f55c47d2c5a.js
10 delete: s3://udapeople-978dd232-2bed-45d9-865a-ea393c1eeb05/bundle.js
11 delete: s3://udapeople-978dd232-2bed-45d9-865a-ea393c1eeb05/images/6ab15f4239b7d187935cf6f4ec3313bf-kiwi.svg
12 delete: s3://udapeople-978dd232-2bed-45d9-865a-ea393c1eeb05/bf2256d01e8706ab5646.js
13 delete: s3://udapeople-978dd232-2bed-45d9-865a-ea393c1eeb05/2fa692cd55bfc83c228c0ab271e4388c.woff
14 remove_bucket: udapeople-978dd232-2bed-45d9-865a-ea393c1eeb05
15 CircleCI received exit code 0
```

✓ Revert migrations

```
1 #!/bin/bash -eo pipefail
2 # ... (code is partially obscured) ...
```

### 13. SCREENSHOT08.png

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Notifications

Status OPERATIONAL

Docs

Orbs

Support

DashboardProjectBranchWorkflowJob

All Pipelines > devops-udacity-project3 > main > default > cloudfront-update (391)

cloudfront-update

Success

Duration / Finished

Queued

Executor / Resource Class

Branch

Commit

Author & Message

3m 27s / 7h ago

0s

Docker / Large

main

164fe1a

fix

STEPS

TESTS

TIMING

BETA

ARTIFACTS

RESOURCES

NEW

Spin up environment


Preparing environment variables

Checkout code

Update cloudfront distribution

```
1#!/bin/bash -eo pipefail
2aws cloudformation deploy \
3  --template-file .circleci/files/cloudfront.yml \
4  --tags project=udacity-project3 \
5  --stack-name udapeople-cloudfront-${CIRCLE_WORKFLOW_ID} \
6  --parameter-overrides WorkflowID=${CIRCLE_WORKFLOW_ID}
7
8
9Waiting for changeset to be created..
10Waiting for stack create/update to complete
11Successfully created/updated stack - udapeople-cloudfront-E738e3ad-1cc4-4dc4-b4ae-d52a47f0245e
12CircleCI received exit code 0
```

## 14. SCREENSHOT09.png

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Can't find an organization?

Check permissions and update access to the ones you want.

Notifications

Status OPERATIONAL

Docs

Orbs

Support

Spin up environment

Preparing environment variables

Checkout code

Attaching workspace

Remove old stacks and files

```
1  #!/bin/bash -eo pipefail
2  echo "----- OLD workflow id -----"
3  export OldWorkflowID=$(cat ~/old_workflow_id.txt)
4  echo ${OldWorkflowID}
5  echo "----- CURRENT workflow id -----"
6  echo ${CIRCLE_WORKFLOW_ID}
7
8  if [[ "${CIRCLE_WORKFLOW_ID}" != "${OldWorkflowID}" ]]
9  then
10     echo "----- OH YEAH -----"
11     aws s3 rb "s3://udapeople-${OldWorkflowID}" --force
12     aws cloudformation delete-stack --stack-name "udapeople-frontend-${OldWorkflowID}"
13     aws cloudformation delete-stack --stack-name "udapeople-backend-${OldWorkflowID}"
14 fi
15
16 ----- OLD workflow id -----
17 b8f1016f-f3d1-49b3-b3d1-55ab11826a5
18 ----- CURRENT workflow id -----
19 885ca49b-6bba-44d8-a26e-8c35aed3a8ab
20 ----- OH YEAH -----
21 delete: s3://udapeople-b8f1016f-f3d1-49b3-b3d1-55ab11826a5/index.html
22 delete: s3://udapeople-b8f1016f-f3d1-49b3-b3d1-55ab11826a5/e2405133cb27a5edc4c0.js
23 delete: s3://udapeople-b8f1016f-f3d1-49b3-b3d1-55ab11826a5/2fa692cd55bfc83c228c0ab271e4388c.woff
24 delete: s3://udapeople-b8f1016f-f3d1-49b3-b3d1-55ab11826a5/1ceff9123b66b50a7d3cb5b221160855.eot
25 delete: s3://udapeople-b8f1016f-f3d1-49b3-b3d1-55ab11826a5/224b6d9d16679dab02826a2a7ea705eb.ttf
26 delete: s3://udapeople-b8f1016f-f3d1-49b3-b3d1-55ab11826a5/bundle.js
27 delete: s3://udapeople-b8f1016f-f3d1-49b3-b3d1-55ab11826a5/images/6ab15f4239b7d187935cf6f4ec3313bf-kiwi.svg
28 delete: s3://udapeople-b8f1016f-f3d1-49b3-b3d1-55ab11826a5/7d234c755f55c47d2c5a.js
29 remove_bucket: udapeople-b8f1016f-f3d1-49b3-b3d1-55ab11826a5
30 CircleCI received exit code 0
```



## 15. SCREENSHOT10.png

The screenshot displays a GitHub Actions workflow run for the 'default' workflow on the 'develop' branch. The workflow is successful, as indicated by the green checkmark and 'Success' status. The workflow consists of several steps: 'build-frontend' (32s), 'scan-frontend' (40s), 'test-frontend' (58s), 'build-backend' (26s), 'scan-backend' (52s), and 'test-backend' (47s). The workflow was triggered by a commit from user '0c3acbd' with the message 'add sc09'.

**Workflow Run Details:**

- Workflow:** default
- Status:** Success
- Branch:** develop
- Commit:** 0c3acbd
- Author & Message:** add sc09
- Duration / Finished:** 1m 36s / 17h ago

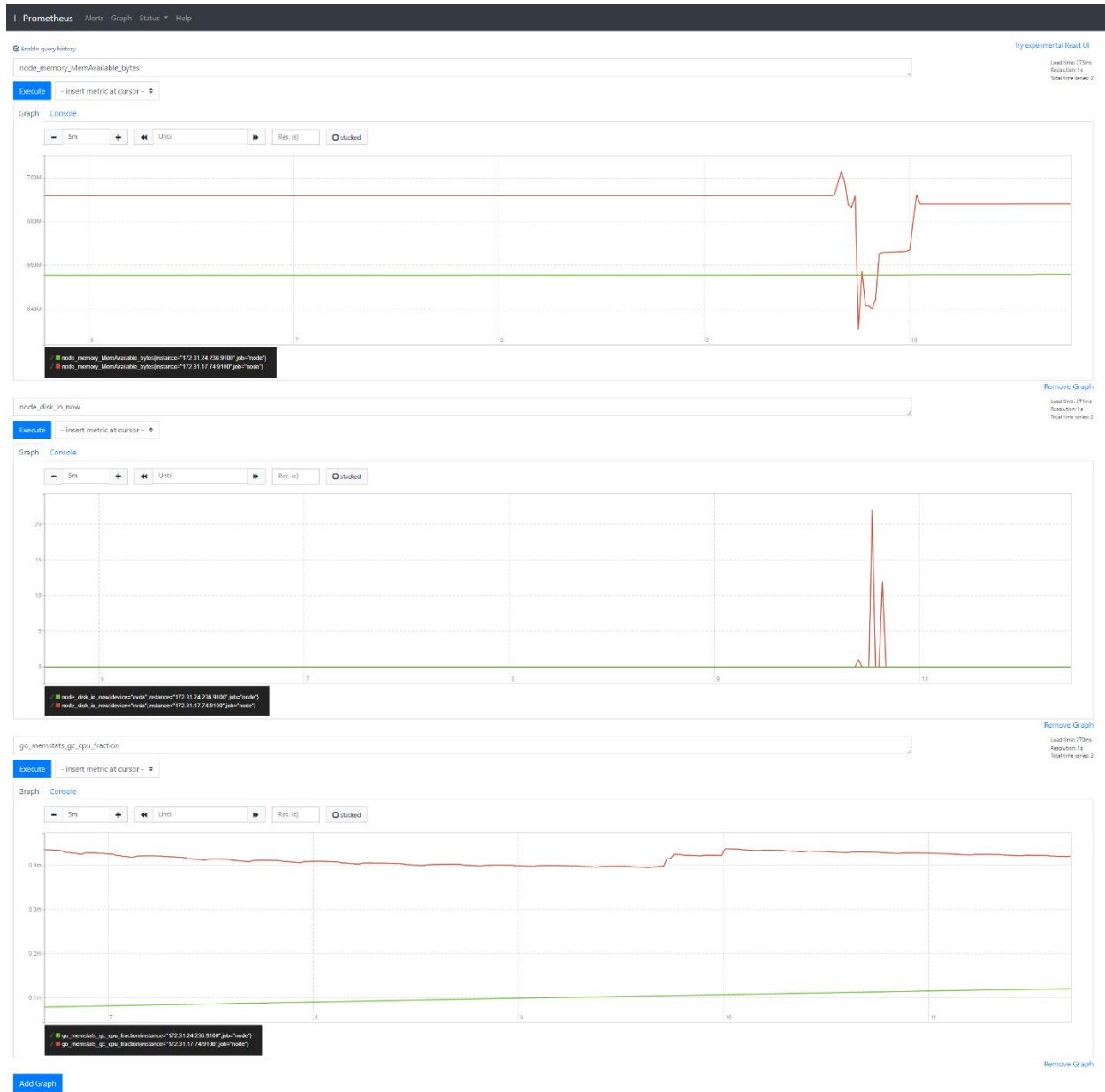
**Workflow Steps:**

Step Name	Duration
build-frontend	32s
scan-frontend	40s
test-frontend	58s
build-backend	26s
scan-backend	52s
test-backend	47s

**Left Sidebar:**

- 18120211
- Võ Thế Minh
- Dashboard
- Projects
- Insights
- Organization Settings
- Plan
- Can't find an organization? Check permissions and update access to the ones you want.

## 16. SCREENSHOT11.png



## 17. SCREENSHOT12.png

[FIRING:2] (InstanceDown node critical) [Hộp thư đến x](#)



minhthetvotemp@gmail.com

2 alerts for View in AlertManager [2] Firing Labels alertname = InstanceDown instance = 172.31.2.166:9100 job = node severity = critical Annotations description



minhthetvotemp@gmail.com

tôi tôi

🌐 Tiếng Anh > Tiếng Việt Dịch thư

3 alerts for

[View in AlertManager](#)

[3] Firing

### Labels

alertname = InstanceDown  
instance = [172.31.17.74:9100](#)

\*\*\*

### Labels

alertname = InstanceDown  
instance = [172.31.2.166:9100](#)  
job = node  
severity = critical

### Annotations

description = of job has been down for more than 1 minutes.  
summary = Instance is down  
[Source](#)

### Labels

alertname = InstanceDown  
instance = [172.31.93.242:9100](#)  
job = node  
severity = critical

### Annotations

description = of job has been down for more than 1 minutes.  
summary = Instance is down  
[Source](#)

Sent by AlertManager