- **Job failed because of compile errors. [SCREENSHOT01]**

- **Job failed because of unit tests. [SCREENSHOT02]**

- **Job that failed because of vulnerable packages. [SCREENSHOT03]**

- **An alert from one of your failed builds. [SCREENSHOT04]**

- **Appropriate job failure for infrastructure creation. [SCREENSHOT05]**

↺ **deploy-infrastructure** ⓘ Failed

↻ Rerun ▾   •••

Duration / Finished	Queued	Executor / Resource Class	Branch	Commit	Author & Message
⏱ 1m 15s / 33s ago	⧖ 0s	🐳 Docker / Large * ⓘ	⑂ master	⊸ 924a80f	👤 deploy infrastructure1

STEPS   TESTS   TIMING   ARTIFACTS   RESOURCES NEW

Parallel runs

| 📦 0 01:15 | 📦 | Use parallelism to run faster tests
Parallelism speeds up tests by splitting them across multiple executors. | Go to Docs | ✕ |

▸ ✅ Spin up environment   1s ⬈ ⬇

▸ ✅ Preparing environment variables   0s ⬈ ⬇

▸ ✅ Checkout code   0s ⬈ ⬇

▸ ✅ yum install -y tar gzip   6s ⬈ ⬇

▾ ❗ Ensure back-end infrastructure exist   1m 7s ⬈ ⬇

```
1   #!/bin/bash -eo pipefail
2   aws cloudformation deploy \
3       --template-file .circleci/files/backend.yml \
4       --stack-name "udapeople-backend-${CIRCLE_WORKFLOW_ID:0:7}" \
5       --region ${AWS_DEFAULT_REGION} \
6       --parameter-overrides ID="${CIRCLE_WORKFLOW_ID:0:7}"  \
7
8
9   Waiting for changeset to be created..
10  Waiting for stack create/update to complete
11
12  Failed to create/update the stack. Run the following command
13  to fetch the list of events leading up to the failure
14  aws cloudformation describe-stack-events --stack-name udapeople-backend-0de8749
15
16  Exited with code exit status 255
17  CircleCI received exit code 255
```

- **Appropriate job failure for the smoke test job. [SCREENSHOT06]**

Parallel runs

| 📦 0 00:40 | 📦 | Use parallelism to run faster tests
Parallelism speeds up tests by splitting them across multiple executors. | Go to Docs | ✕ |

▸ ✅ Spin up environment   1s ⬈ ⬇

▸ ✅ Preparing environment variables   0s ⬈ ⬇

▸ ✅ Checkout code   0s ⬈ ⬇

▸ ✅ Install AWS CLI v2   2s ⬈ ⬇

▸ ✅ Install Node.js 13   30s ⬈ ⬇

▸ ✅ Backend smoke test.   1s ⬈ ⬇

▾ ❗ Frontend smoke test.   0s ⬈ ⬇

```
1   #!/bin/bash -eo pipefail
2   FRONTEND_WEBSITE=http://udapeople-${CIRCLE_WORKFLOW_ID:0:7}.s3-website.${AWS_DEFAULT_REGION}.amazonaws.com
3   if curl -s $FRONTEND_WEBSITE | grep "Welcome"
4   then
5       exit 1
6   else
7       exit 2
8   fi
9
10      Welcome
11
12  Exited with code exit status 1
13  CircleCI received exit code 1
```

▸ ✅ Destroy environments   3s ⬈ ⬇

▸ ✅ Revert migrations   0s ⬈ ⬇

- **Successful rollback after a failed smoke test. [SCREENSHOT07]**

▶ ✅ Install AWS CLI v2	2s
▶ ✅ Install Node.js 13	30s
▶ ✅ Backend smoke test.	1s
▶ ⛔ Frontend smoke test.	0s
▼ ✅ Destroy environments	3s

```
1  #!/bin/bash -eo pipefail
2  aws cloudformation delete-stack --stack-name udapeople-backend-${CIRCLE_WORKFLOW_ID:0:7}
3  aws s3 rm s3://udapeople-${CIRCLE_WORKFLOW_ID:0:7} --recursive
4  aws cloudformation delete-stack --stack-name udapeople-frontend-${CIRCLE_WORKFLOW_ID:0:7}
5
6  delete: s3://udapeople-a471fa2/2fa692cd55bfc83c228c0ab271e4388c.woff
7  delete: s3://udapeople-a471fa2/92014344b7b009e4ded0.js
8  delete: s3://udapeople-a471fa2/224b6d9d16679dab02826a2a7ea705eb.ttf
9  delete: s3://udapeople-a471fa2/index.html
10 delete: s3://udapeople-a471fa2/1ceff9123b66b50a7d3cb5b221160855.eot
11 delete: s3://udapeople-a471fa2/bundle.js
12 delete: s3://udapeople-a471fa2/images/6ab15f4239b7d187935cf6f4ec3313bf-kiwi.svg
13 delete: s3://udapeople-a471fa2/7d234c755f55c47d2c5a.js
14 CircleCI received exit code 0
```

| ▼ ✅ Revert migrations | 0s |

```
1  #!/bin/bash -eo pipefail
2  SUCCESS=$(curl --insecure  https://kvdb.io/PQ2djs3DFU7wgxjLaQzeYA/migration_${CIRCLE_WORKFLOW_ID:0:7})
3  if (( $SUCCESS == 1 ));
4  then
5    cd ~/project/backend
6    npm install
7    npm run migration:revert
8  fi
9
10   % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
11                                  Dload  Upload   Total   Spent    Left  Speed
12 100     9  100     9    0     0     31      0 --:--:-- --:--:-- --:--:--    31
13 /bin/bash: line 1: ((: Not Found == 1 : syntax error in expression (error token is "Found == 1 ")
14 CircleCI received exit code 0
```

- **Successful promotion job. [SCREENSHOT08]**

Duration / Finished	Queued	Executor / Resource Class	Branch	Commit	Author & Message
🕐 4m 21s / 2m ago	⧗ 0s	🐳 Docker / Large ↗ ⓘ	� master	◆ 3ef1fde	👤 push cloudfront

STEPS   TESTS   TIMING   ARTIFACTS   RESOURCES NEW

Parallel runs

| 📦 0 \| 04:21 | 📦 | Use parallelism to run faster tests — Parallelism speeds up tests by splitting them across multiple executors. | Go to Docs   X |

▶ ✅ Spin up environment	1s
▶ ✅ Preparing environment variables	0s
▶ ✅ Checkout code	0s
▶ ✅ Install AWS CLI v2	2s
▶ ✅ Install Node.js 13	31s
▶ ✅ Save Old Workflow ID to kvdb.io	1s
▼ ✅ Update cloudfront distribution	3m 44s

```
1  #!/bin/bash -eo pipefail
2  aws cloudformation deploy \
3    --template-file .circleci/files/cloudfront.yml \
4    --parameter-overrides WorkflowID="${CIRCLE_WORKFLOW_ID:0:7}" \
5    --stack-name InitialStack
6

7
8  Waiting for changeset to be created..
9  Waiting for stack create/update to complete
10 Successfully created/updated stack - InitialStack
11 CircleCI received exit code 0
```

- **Successful cleanup job. [SCREENSHOT09]**

Spin up environment 2s

Preparing environment variables 0s

Checkout code 0s

Install dependencies 6s

Attaching workspace 0s

Remove previos stacks and files 3s

```
1   #!/bin/bash -eo pipefail
2   cat ~/workspace/OldFlow.txt
3   export OldWorkflowID=$(cat ~/workspace/OldFlow.txt)
4   export CurrentWorkflowID=${CIRCLE_WORKFLOW_ID:0:7}
5   if [[ "$CurrentWorkflowID" == "$OldWorkflowID" ]]
6   then
7       echo "It's OK, No Previous Stack"
8   else
9       echo "will delete old version"
10      aws s3 rm "s3://udapeople-${OldWorkflowID}" --recursive
11      aws cloudformation delete-stack --stack-name "udapeople-frontend-${OldWorkflowID}"
12      aws cloudformation delete-stack --stack-name "udapeople-backend-${OldWorkflowID}"
13  fi
14

15  a10a3ef
16  will delete old version
17  delete: s3://udapeople-a10a3ef/6c11186fa20e2d6a05d3.js
18  delete: s3://udapeople-a10a3ef/224b6d9d16679dab02826a2a7ea705eb.ttf
19  delete: s3://udapeople-a10a3ef/1ceff9123b66b50a7d3cb5b221160855.eot
20  delete: s3://udapeople-a10a3ef/images/6ab15f4239b7d187935cf6f4ec3313bf-kiwi.svg
21  delete: s3://udapeople-a10a3ef/2fa692cd55bfc83c228c0ab271e4388c.woff
22  delete: s3://udapeople-a10a3ef/bundle.js
23  delete: s3://udapeople-a10a3ef/7d234c755f55c47d2c5a.js
24  delete: s3://udapeople-a10a3ef/index.html
25  CircleCI received exit code 0
```

- **Only deploy on pushed to master branch. [SCREENSHOT10]**

Dashboard   Project   Branch   Workflow

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

default ✓ Success   Insights   ↻ Rerun ▾   ...

Duration / Finished	Branch	Commit	Author
2m 14s / 9s ago	dev-branch	811ece6	salehdevo

✓ build-frontend   42s ───── ✓ scan-frontend   59s
                          └── ✓ test-frontend   1m 26s

✓ build-backend   35s ───── ✓ scan-backend   1m 0s
                          └── ✓ test-backend   1m 0s
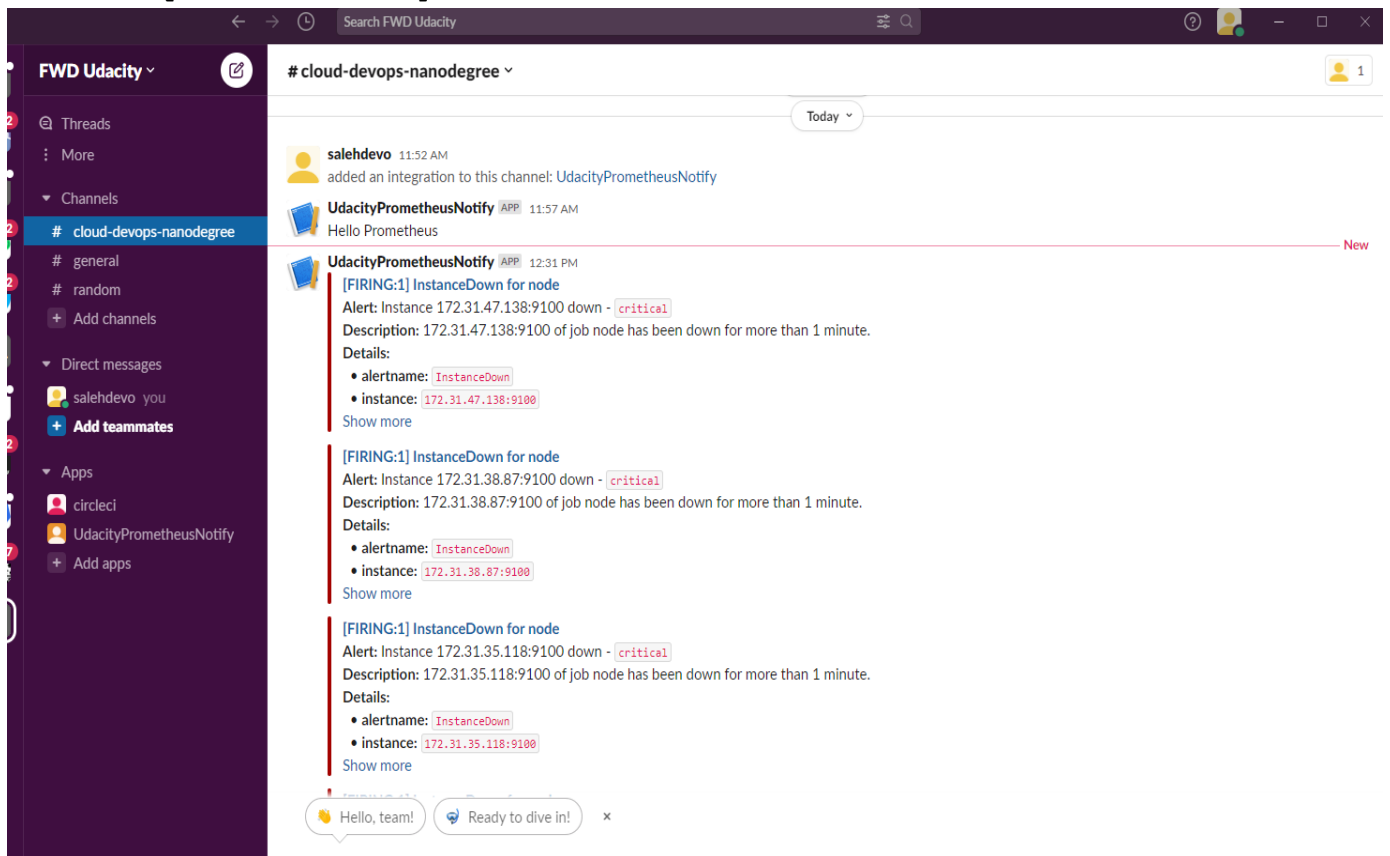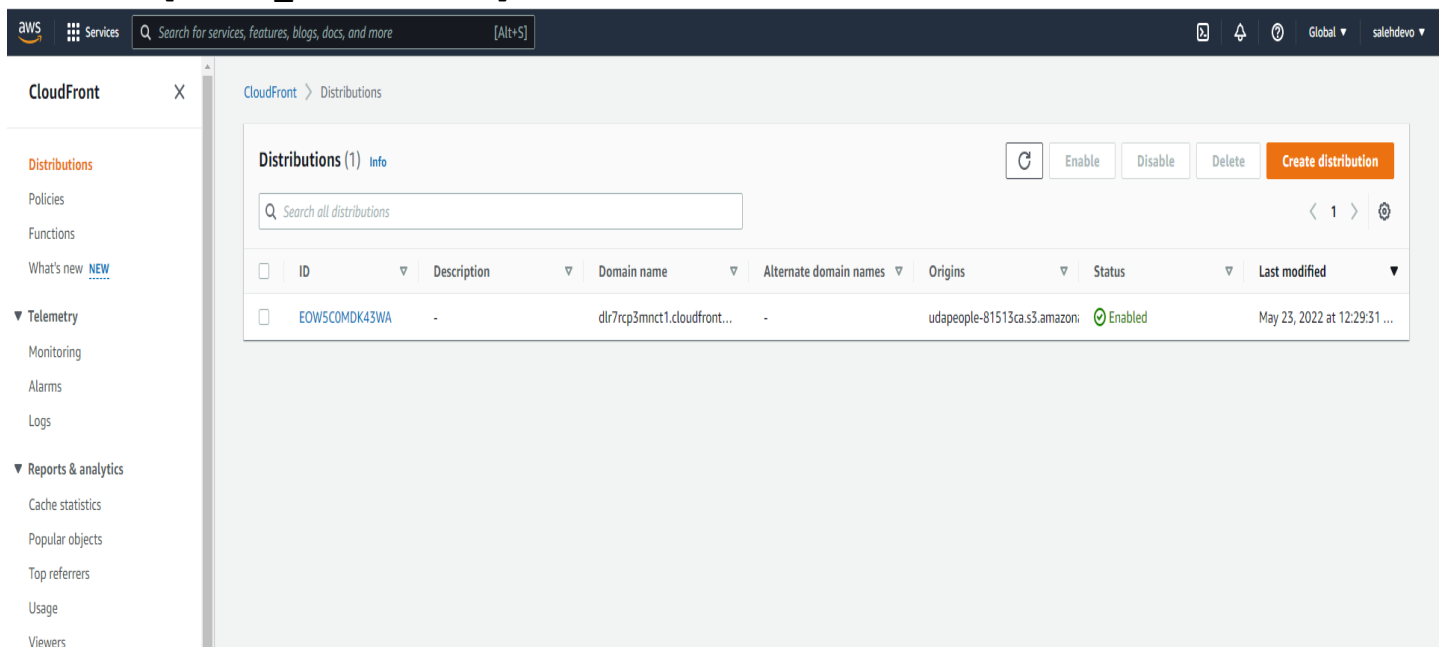
- **Provide a screenshot of a graph of your EC2 instance including available memory, available disk space, and CPU usage. [SCREENSHOT11]**
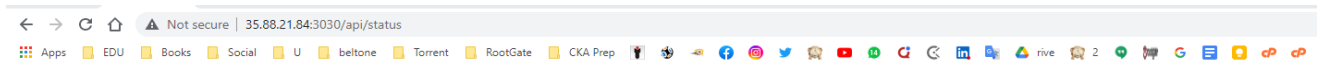
- **Provide a screenshot of an alert that was sent by Prometheus. [SCREENSHOT12]**

- **Provide a screenshot showing the evidence of deployed and functioning front-end application in CloudFront (aka, your production front-end). [URL03_SCREENSHOT]**
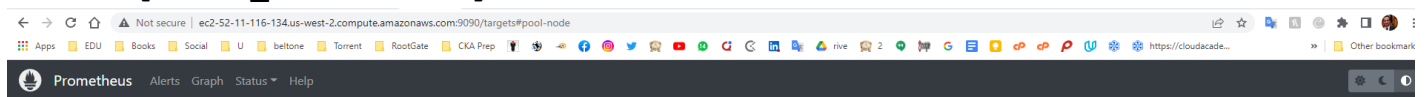
- **Provide a screenshot showing the evidence of a healthy backend application. The backend endpoint status should show a healthy response. [URL04_SCREENSHOT]**

`{"status":"ok","environment":"production"}`

- **Provide a screenshot of your Prometheus server showing UP state [URL05_SCREENSHOT]**

Targets

All   Unhealthy   Collapse All

node (1/6 up) show less

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://172.31.32.205:9100/metrics	DOWN	instance="172.31.32.205:9100" job="node"	58.644s ago	3.61s	Get "http://172.31.32.205:9100/metrics": dial tcp 172.31.32.205:9100: connect: no route to host
http://172.31.35.118:9100/metrics	DOWN	instance="172.31.35.118:9100" job="node"	1m 8s ago	10.0s	Get "http://172.31.35.118:9100/metrics": context deadline exceeded
http://172.31.47.71:9100/metrics	UP	instance="172.31.47.71:9100" job="node"	58.120s ago	12.767ms	
http://172.31.38.87:9100/metrics	DOWN	instance="172.31.38.87:9100" job="node"	1m 5s ago	3.52s	Get "http://172.31.38.87:9100/metrics": dial tcp 172.31.38.87:9100: connect: no route to host
http://172.31.47.199:9100/metrics	DOWN	instance="172.31.47.199:9100" job="node"	1m 0s ago	10.0s	Get "http://172.31.47.199:9100/metrics": dial tcp 172.31.47.199:9100: i/o timeout
http://172.31.47.138:9100/metrics	DOWN	instance="172.31.47.138:9100" job="node"	58.205s ago	0.296ms	Get "http://172.31.47.138:9100/metrics": dial tcp 172.31.47.138:9100: connect: connection refused

prometheus (1/1 up) show less

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://localhost:9090/metrics	UP	instance="localhost:9090" job="prometheus"	53.313s ago	6.145ms	